VERŻJONI ELETTRONIKA

Suppliment tal-Gazzetta tal-Gvern ta' Malta, Nru. 19,498, 13 ta' Novembru, 2015
Taqsima B

L.N. 363 of 2015

PRODUCT SAFETY ACT
(CAP. 427)
EC Type-Approval of Motor Vehicles and their Trailers (Amendment) Regulations, 2015

IN exercise of the powers conferred by articles 38 to 40 of the Product Safety Act, the Minister for Social Dialogue, Consumer Affairs and Civil Liberties**,** on the advice of the Malta Competition and Consumer Affairs Authority, has made the following regulations:-

Citation.

1. (1) The title of these regulations is the EC Type-Approval of Motor Vehicles and their Trailers (Amendment) Regulations, 2015, and these regulations shall be read and construed as one with the EC Type-Approval of Motor Vehicles and their Trailers Regulations, hereinafter referred to as "the principal regulations". S.L. 427.23

(2) These regulations implement the requirements of:

(a) Commission Regulation (EU) No 133/2014 of 31 January 2014 amending, for the purposes of adapting to technical progress as regards emission limits, Directive 2007/46/EC of the European Parliament and of the Council, Regulation (EC) No 595/2009 of the European Parliament and of the Council and Commission Regulation (EU) No 582/2011. This Regulation amends Schedules I, III,IV, IX, XXI, XXII to the principal regulations and shall be deemed to have entered into force 1 January 2014 with the exception of point 4 of Annex I, which shall be deemed to have entered into force from 1 July 2014;

(b) Commission Regulation (EU) No 136/2014 of 11 February 2014 amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 as regards emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and Commission Regulation (EU) No 582/2011 as regards emissions from heavy duty vehicles (Euro VI). This Regulation amends Schedules I, III, IV, IX, XI, XXI, XXII and shall deemed to have entered into force on the twentieth day following its publication;

(c) Commission Regulation (EU) No 214/2014 of 25 February 2014 amending Annexes II, IV, XI, XII and XVIII to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles. This Regulation amends Schedules II, IV, XI, XII, XVIII, XXII and shall deemed to have entered into force on the 20th day following that of the publication. Article 1, point (2), Article 2 and Points 1(a) and 2(b)(i) of the Annex shall deemed to have entered into force from 1 November 2014;

(d) Commission Regulation (EU) No 627/2014 of 12 June 2014 amending Regulation (EU) No 582/2011 for the purposes of adapting it to technical progress as regards particulate matter monitoring by the on-board diagnostic system. This regulation amends Schedule XXI and shall be deemed to have entered into force on the 20th day following that of its publication;

(e) Commission Regulation (EU) No 1171/2014 of 31 October 2014 amending and correcting Annexes I, III, VI, IX, XI and XVII to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles. This Regulation amends Schedules I, III, VI, IX, XVIII, XXII and shall deemed to have entered into force on the 20th day following that of the publication;

(f) Commission Regulation (EU) 2015/45 of 14 January 2015 amending Directive 2007/46/EC of the European Parliament and of the Council and Commission Regulation (EC) No 692/2008 as regards innovative technologies for reducing CO2 emissions from light commercial vehicles. This regulation amends Schedules I, IX, XXI, XXII and shall deemed to have entered into force 20 days following that if its publication.

Substitutes the Schedules to the principal regulations.

2. The Schedules to the principal regulations shall be substituted by the following new Schedules:

"**SCHEDULE I**

[Regulations 3, 6(3) and (4)]

COMPLETE LIST OF INFORMATION FOR THE PURPOSE OF EC TYPE-APPROVAL OF VEHICLES (a)

All information documents in these regulations and in separate directives or regulations shall consist only of extracts from, and adhere to the item numbering system of, this total list.

The following information shall be supplied in triplicate and include a list of contents. Any drawings shall be supplied in appropriate scale and in sufficient detail on size A4 or on a folder of A4 format. Photographs, if any, shall show sufficient detail.

If the systems, components or separate technical units referred to in this annex have electronic controls, information concerning their performance shall be supplied.

0.	GENERAL
0.1.	Make (trade name of manufacturer):
0.2.	Type:
0.2.0.1.	Chassis:
0.2.0.2.	Bodywork/complete vehicle:
0.2.1.	Commercial name(s) (if available):
0.2.2.	For multi-stage approved vehicles, type-approval information of the base/previous stage vehicle (list the information for each stage. This can be done with a matrix)
	Type:
	Variant(s):
	Version(s):
	Type-approval number, including extension number
0.3.	Means of identification of type, if marked on the vehicle ([b]):
0.3.0.1.	Chassis:
0.3.0.2.	Bodywork/complete vehicle:
0.3.1.	Location of that marking:
0.3.1.1.	Chassis:
0.3.1.2.	Bodywork/complete vehicle:
0.4.	Category of vehicle ([c]):
0.4.1.	Classification(s) according to the dangerous goods which the vehicle is intended to transport:
0.5.	Company name and address of manufacturer:
0.5.1.	For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle
0.6.	Location and method of attachment of statutory plates and location of vehicle identification number:
0.6.1.	On the chassis:
0.6.2.	On the bodywork:
0.7.	(Not attributed)
0.8.	Name(s) and address(es) of assembly plant(s):
0.9.	Name and address of the manufacturer's representative (if any):
1.	GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE
1.1.	Photographs and/or drawings of a representative vehicle:
1.2.	Dimensional drawing of the whole vehicle:
1.3.	Number of axles and wheels:

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1.3.1.	Number and position of axles with twin wheels:
1.3.2.	Number and position of steered axles:
1.3.3.	Powered axles (number, position, interconnection):
1.4.	Chassis (if any) (overall drawing):
1.5.	Material used for the side-members ([d]):
1.6.	Position and arrangement of the engine:
1.7.	Driving cab (forward control or bonneted) ([e]):
1.8.	Hand of drive: left/right ([1]).
1.8.1.	Vehicle is equipped to be driven in right/left ([1]) hand traffic.
1.9.	Specify if the towing vehicle is intended to tow semi-trailers or other trailers and, if the trailer is a semi-, drawbar-, centre-axle- or rigid drawbar trailer:
1.10.	Specify if the vehicle is specially designed for the controlled-temperature carriage of goods:
2.	MASSES AND DIMENSIONS ([f]) ([g]) ([6]) (in kg and mm) (Refer to drawing where applicable)
2.1.	Wheelbase(s) (fully loaded) ([g]1):
2.1.1.	Two-axle vehicles:
2.1.2.	Vehicles with three or more axles
2.1.2.1.	Axle spacing between consecutive axles going from the foremost to the rearmost axle:
2.1.2.2.	Total axle spacing:
2.2.	Fifth wheel
2.2.1.	In the case of semi-trailers
2.2.1.1.	Distance between the axis of the fifth wheel kingpin and the rearmost end of the semi-trailer:
2.2.1.2.	Maximum distance between the axis of the fifth wheel kingpin and any point on the front of the semi-trailer:
2.2.1.3.	Semi-trailer special wheelbase (as defined in Section 7.6.1.2 of Annex I to Directive 97/27/EC):
2.2.2.	In the case of semi-trailer towing vehicles
2.2.2.1.	Fifth wheel lead (maximum and minimum; indicate the permissible values in the case of any incomplete vehicle) ([g]2):
2.2.2.2.	Maximum height of the fifth wheel (standardised) ([g]3):
2.3.	Axle track(s) and width(s)
2.3.1.	Track of each steered axle ([g]4):
2.3.2.	Track of all other axles ([g]4):
2.3.3.	Width of the widest rear axle:
2.3.4.	Width of the foremost axle (measured at the outermost part of the tyres excluding the bulging of the tyres close to the ground):
2.4.	Range of vehicle dimensions (overall)
2.4.1.	For chassis without bodywork
2.4.1.1.	Length ([g]5): …
2.4.1.1.1.	Maximum permissible length:
2.4.1.1.2.	Minimum permissible length:
2.4.1.1.3.	In the case of trailers, maximum permissible drawbar length ([g]6):
2.4.1.2.	Width ([g]7):
2.4.1.2.1.	Maximum permissible width:
2.4.1.2.2.	Minimum permissible width:
2.4.1.3.	Height (in running order) ([g]8) (for suspensions adjustable for height, indicate

normal running position):

2.4.1.4. Front overhang ([g]9):

2.4.1.4.1. Approach angle ([g1]0): …… degrees.

2.4.1.5. Rear overhang ([g1]1):

2.4.1.5.1. Departure angle ([g1]2): …… degrees.

2.4.1.5.2. Minimum and maximum permissible overhang of the coupling point ([g1]3):

2.4.1.6. Ground clearance (as defined in point 4.5 of Section A of Schedule II)

2.4.1.6.1. Between the axles:

2.4.1.6.2. Under the front axle(s):

2.4.1.6.3. Under the rear axle(s):

2.4.1.7. Ramp angle ([g1]4): …… degrees.

2.4.1.8. Extreme permissible positions of the centre of gravity of the body and/or interior fittings and/or equipment and/or payload:

2.4.2. For chassis with bodywork

2.4.2.1. Length ([g]5): .....

2.4.2.1.1. Length of the loading area:

2.4.2.1.2. In the case of trailers, maximum permissible drawbar length ([g]6):

2.4.2.2. Width ([g]7):

2.4.2.2.1. Thickness of the walls (in the case of vehicles designed for controlled-temperature carriage of goods):

2.4.2.3. Height (in running order) ([g]8) (for suspensions adjustable for height, indicate normal running position):

2.4.2.4. Front overhang ([g9]):

2.4.2.4.1. Approach angle ([g1]0): …… degrees.

2.4.2.5. Rear overhang ([g1]1):

2.4.2.5.1. Departure angle ([g1]2): …… degrees.

2.4.2.5.2. Minimum and maximum permissible overhang of the coupling point ([g1]3):

2.4.2.6. Ground clearance (as defined in point 4.5 of Section A of Schedule II)

2.4.2.6.1. Between the axles:

2.4.2.6.2. Under the front axle(s):

2.4.2.6.3. Under the rear axle(s):

2.4.2.7. Ramp angle ([g1]4): …… degrees.

2.4.2.8. Extreme permissible positions of the centre of gravity of the payload (in the case of non-uniform load):

2.4.2.9. Position of centre of gravity of the vehicle (M_2 and M_3) at its technically permissible maximum laden mass in the longitudinal, transverse and vertical directions:

2.4.3. For bodywork approved without chassis (vehicles M_2 and M3)

2.4.3.1. Length ([g]5): .

2.4.3.2. Width ([g]7):

2.4.3.3. Nominal height (in running order) ([g8]) on intended chassis type(s) (for suspensions adjustable for height, indicate normal running position):

2.5. Minimum mass on the steering axle(s) for incomplete vehicles:

2.6. Mass in running order ([h])

(a) minimum and maximum for each variant:

(b) mass of each version (a matrix must be provided):

2.6.1. Distribution of this mass among the axles and, in the case of a semi-trailer, a centre-axle trailer or a rigid drawbar trailer, the mass on the coupling point:

(a) minimum and maximum for each variant:

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(b)	mass of each version (a matrix must be provided):
2.6.2.	Mass of the optional equipment (see the definition set out in point (5) of Article 2 of Commission Regulation (EU) No 1230/2012 ([7])):
2.7.	Minimum mass of the completed vehicle as stated by the manufacturer, in the case of an incomplete vehicle:
2.7.1.	Distribution of this mass among the axles and, in the case of a semi-trailer or centre-axle trailer, load on the coupling point: .
2.8.	Technically permissible maximum laden mass stated by the manufacturer ([i]) ([3]):
2.8.1.	Distribution of this mass among the axles and, in the case of a semi-trailer or centre-axle trailer, load on the coupling point ([3]):
2.9.	Technically permissible maximum mass on each axle:
2.10.	Technically permissible mass on each group of axles:
2.11.	Technically permissible maximum towable mass of the towing vehicle in case of:
2.11.1.	Drawbar trailer:
2.11.2.	Semi-trailer:
2.11.3.	Centre-axle trailer:
2.11.3.1.	Maximum ratio of the coupling overhang ([j]) to the wheel base:
2.11.3.2.	Maximum V-value: kN.
2.11.4.	Rigid drawbar trailer:
2.11.5.	Technically permissible maximum laden mass of the combination ([3]):
2.11.6.	Maximum mass of unbraked trailer:
2.12.	Technically permissible maximum mass at the coupling point:
2.12.1.	Of a towing vehicle:
2.12.2.	Of a semi-trailer, a centre-axle trailer or a rigid drawbar trailer:
2.12.3.	Maximum permissible mass of the coupling device (if not fitted by the manufacturer):
2.13.	Rear swing-out (Section 7.6.2. and 7.6.3. of Annex I to Directive 97/27/EC):
2.14.	Engine power/maximum mass ratio: . kW/kg.
2.14.1.	Engine power/technically permissible maximum laden mass of the combination ratio (Section 7.10 of Annex I to Directive 97/27/EC): ……kW/kg.
2.15.	Hill-starting ability (solo vehicle) ([4]): …… %.
2.16.	Registration/in service maximum permissible masses (optional)
2.16.1.	Registration/in service maximum permissible laden mass:
2.16.2.	Registration/in service maximum permissible mass on each axle and, in the case of a semi-trailer or centre-axle trailer, intended load on the coupling point stated by the manufacturer if lower than the technically permissible maximum mass on the coupling point:
2.16.3.	Registration/in service maximum permissible mass on each group of axles:
2.16.4.	Registration/in service maximum permissible towable mass:
2.16.5.	Registration/in service maximum permissible mass of the combination:
2.17.	Vehicle submitted to multi-stage type-approval (only in the case of incomplete or completed vehicles of category N1 within the scope of Regulation (EC) No 715/2007: yes/no ([1])
2.17.1.	Mass of the base vehicle in running order: kg.
2.17.2.	Default added mass, calculated in accordance with Section 5 of Annex XII to Regulation (EC) No 692/2008: …. kg.
3.	POWER PLANT ([k])
3.1.	Manufacturer of the engine:
3.1.1.	Manufacturer's engine code (as marked on the engine or other means of identification):

3.1.2.	Approval number (if appropriate) including fuel identification marking: (heavy-duty vehicles only)
3.2.	Internal combustion engine
3.2.1.	Specific engine information
3.2.1.1.	Working principle: positive ignition/compression ignition/dual-fuel (1)
	Cycle: four stroke/two stroke/rotary ([1])
3.2.1.1.1.	Type of dual-fuel engine: Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])([x1])
3.2.1.1.2.	Gas energy ratio over the hot part of the WHTC test-cycle: … %
3.2.1.2.	Number and arrangement of cylinders:
3.2.1.2.1.	Bore ([l]): …… mm
3.2.1.2.2.	Stroke ([l]): …… mm
3.2.1.2.3.	Firing order:
3.2.1.3.	Engine capacity ([m]): …… cm^3
3.2.1.4.	Volumetric compression ratio ([2]):
3.2.1.5.	Drawings of combustion chamber, piston crown and, in the case of positive ignition engines, piston rings:
3.2.1.6.	Normal engine idling speed ([2]): …… min^{-1}
3.2.1.6.1.	High engine idling speed ([2]): …… min^{-1}
3.2.1.6.2.	Idle on diesel: yes/no ([1])([x1])’
3.2.1.7.	Carbon monoxide content by volume in the exhaust gas with the engine idling ([2]): …… % as stated by the manufacturer (positive ignition engines only)
3.2.1.8.	Maximum net power ([n]): kW at .... min^{-1} (manufacturer's declared value)
3.2.1.9.	Maximum permitted engine speed as prescribed by the manufacturer: min^{-1}
3.2.1.10.	Maximum net torque ([n]): …. Nm at .... min^{-1} (manufacturer's declared value)
3.2.1.11.	(Euro VI only) Manufacturer references of the Documentation package required by Articles 5, 7 and 9 of Regulation (EU) No 582/2011 enabling the approval authority to evaluate the emission control strategies and the Systems on-board the engine to ensure the correct operation of NOx control measures
3.2.2.	Fuel
3.2.2.1.	Light-duty vehicles: Diesel/Petrol/LPG/NG or Biomethane/ Ethanol (E 85)/ Biodiesel/Hydrogen H2NG([1]) ([6])
3.2.2.2.	Heavy duty vehicles Diesel/Petrol/LPG/NG-H/NG-L/NG- HL/Ethanol (ED95)/ Ethanol (E85)/LNG/LNG20 ([1])([5])
3.2.2.2.1.	(Euro VI only) Fuels compatible with use by the engine declared by the manufacturer in accordance with Section 1.1.2 of Annex I to Regulation (EU) No 582/2011 (as applicable)
3.2.2.3.	Fuel tank inlet: restricted orifice/label ([1])
3.2.2.4.	Vehicle fuel type: Mono fuel, Bi fuel, Flex fuel ([1])
3.2.2.5.	Maximum amount of biofuel acceptable in fuel (manufacturer's declared value): % by volume
3.2.3.	Fuel tank(s)
3.2.3.1.	Service fuel tank(s)
3.2.3.1.1.	Number and capacity of each tank:
3.2.3.1.1.1.	Material:
3.2.3.1.2.	Drawing and technical description of the tank(s) with all connections and all lines of the breathing and venting system, locks, valves, fastening devices:
3.2.3.1.3.	Drawing clearly showing the position of the tank(s) in the vehicle:
3.2.3.2.	Reserve fuel tank(s)
3.2.3.2.1.	Number and capacity of each tank:
3.2.3.2.1.1.	Material:

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3.2.3.2.2.	Drawing and technical description of the tank(s) with all connections and all lines of the breathing and venting system, locks, valves, fastening devices:
3.2.3.2.3.	Drawing clearly showing the position of the tank(s) in the vehicle:
3.2.4.	Fuel feed
3.2.4.1.	By carburettor(s): yes/no ([1])
3.2.4.2.	By fuel injection (compression ignition or dual fuel only): yes/no ([1])
3.2.4.2.1.	System description:
3.2.4.2.2.	Working principle: direct injection/pre-chamber/swirl chamber ([1])
3.2.4.2.3.	Injection pump
3.2.4.2.3.1.	Make(s):
3.2.4.2.3.2.	Type(s):
3.2.4.2.3.3.	Maximum fuel delivery ([1]) ([2]): …… mm^3 /stroke or cycle at an engine speeds of: … min^{-1} or, alternatively, a characteristic diagram: (When boost control is supplied, state the characteristic fuel delivery and boost pressure versus engine speed)
3.2.4.2.3.4.	Static injection timing ([2]):
3.2.4.2.3.5.	Injection advance curve ([2]):
3.2.4.2.3.6.	Calibration procedure: test bench/engine ([1])
3.2.4.2.4.	Governor
3.2.4.2.4.1.	Type:
3.2.4.2.4.2.	Cut-off point
3.2.4.2.4.2.1.	Speed at which cut-off starts under load: …… min^{-1}
3.2.4.2.4.2.2.	Maximum no-load speed: …… min^{-1}
3.2.4.2.4.2.3.	Idling speed: … min^{-1}
3.2.4.2.5.	Injection piping (heavy-duty vehicles only)
3.2.4.2.5.1.	Length: …… mm
3.2.4.2.5.2.	Internal diameter: …… mm
3.2.4.2.5.3.	Common rail, make and type:
3.2.4.2.6.	Injector(s)
3.2.4.2.6.1.	Make(s):
3.2.4.2.6.2.	Type(s):
3.2.4.2.6.3.	Opening pressure ([2]):…..... kPa or characteristic diagram ([2]):
3.2.4.2.7.	Cold start system
3.2.4.2.7.1.	Make(s):
3.2.4.2.7.2.	Type(s):
3.2.4.2.7.3.	Description:
3.2.4.2.8.	Auxiliary starting aid
3.2.4.2.8.1.	Make(s):
3.2.4.2.8.2.	Type(s):
3.2.4.2.8.3.	System description:
3.2.4.2.9.	Electronic controlled injection: yes/no ([1])
3.2.4.2.9.1.	Make(s):
3.2.4.2.9.2.	Type(s):
3.2.4.2.9.3	Description of the system (in the case of systems other than continuous injection give equivalent details):
3.2.4.2.9.3.1.	Make and type of the control unit (ECU):

3.2.4.2.9.3.2. Make and type of the fuel regulator:

3.2.4.2.9.3.3. Make and type of the air-flow sensor:

3.2.4.2.9.3.4. Make and type of fuel distributor:

3.2.4.2.9.3.5. Make and type of the throttle housing:

3.2.4.2.9.3.6. Make and type of water temperature sensor:

3.2.4.2.9.3.7. Make and type of air temperature sensor:

3.2.4.2.9.3.8. Make and type of air pressure sensor:

3.2.4.2.9.3.9. Software calibration number(s):

3.2.4.3. By fuel injection (positive ignition only): yes/no ([1])

3.2.4.3.1. Working principle: intake manifold (single-/multi-point/direct injection ([1]) /other (specify):

3.2.4.3.2. Make(s):

3.2.4.3.3. Type(s):

3.2.4.3.4. System description (In the case of systems other than continuous injection give equivalent details):

3.2.4.3.4.1. Make and type of the control unit (ECU):

3.2.4.3.4.2. Make and type of fuel regulator:

3.2.4.3.4.3. Make and type of air-flow sensor:

3.2.4.3.4.4. Make and type of fuel distributor:

3.2.4.3.4.5. Make and type of pressure regulator:

3.2.4.3.4.6. Make and type of micro switch:

3.2.4.3.4.7. Make and type of idling adjustment screw:

3.2.4.3.4.8. Make and type of throttle housing:

3.2.4.3.4.9. Make and type of water temperature sensor:

3.2.4.3.4.10. Make and type of air temperature sensor:

3.2.4.3.4.11. Make and type of air pressure sensor:

3.2.4.3.4.12. Software calibration number(s):

3.2.4.3.5. Injectors: opening pressure ([2]): …… kPa or characteristic diagram:

3.2.4.3.5.1. Make:

3.2.4.3.5.2. Type:

3.2.4.3.6. Injection timing:

3.2.4.3.7. Cold start system

3.2.4.3.7.1. Operating principle(s):

3.2.4.3.7.2. Operating limits/settings ([1]) ([2]):

3.2.4.4. Feed pump

3.2.4.4.1. Pressure ([2]): … kPa or characteristic diagram ([2]):

3.2.5. Electrical system

3.2.5.1. Rated voltage: …… V, positive/negative ground ([1])

3.2.5.2. Generator

3.2.5.2.1. Type:

3.2.5.2.2. Nominal output: …… VA

3.2.6. Ignition system (spark ignition engines only)

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3.2.6.1.	Make(s):
3.2.6.2.	Type(s):
3.2.6.3.	Working principle:
3.2.6.4.	Ignition advance curve or map ([2]):
3.2.6.5.	Static ignition timing ([2]): degrees before TDC
3.2.6.6.	Spark plugs
3.2.6.6.1.	Make:
3.2.6.6.2.	Type:
3.2.6.6.3.	Gap setting: ……mm
3.2.6.7.	Ignition coil(s)
3.2.6.7.1.	Make:
3.2.6.7.2.	Type:
3.2.7.	Cooling system: liquid/air ([1])
3.2.7.1.	Nominal setting of the engine temperature control mechanism:
3.2.7.2.	Liquid
3.2.7.2.1.	Nature of liquid:
3.2.7.2.2.	Circulating pump(s): yes/no ([1])
3.2.7.2.3.	Characteristics: …….or
3.2.7.2.3.1.	Make(s):
3.2.7.2.3.2.	Type(s):
3.2.7.2.4.	Drive ratio(s):
3.2.7.2.5.	Description of the fan and its drive mechanism:
3.2.7.3.	Air
3.2.7.3.1.	Fan: yes/no ([1])
3.2.7.3.2.	Characteristics: or
3.2.7.3.2.1.	Make(s):
3.2.7.3.2.2.	Type(s):
3.2.7.3.3.	Drive ratio(s):
3.2.8.	Intake system
3.2.8.1.	Pressure charger: yes/no ([1])
3.2.8.1.1.	Make(s):
3.2.8.1.2.	Type(s):
3.2.8.1.3.	Description of the system (e.g.) maximum charge pressure: …… kPa; wastegate if applicable):
3.2.8.2.	Intercooler: yes/no ([1])
3.2.8.2.1.	Type: air-air/air-water ([1])
3.2.8.3.	Intake depression at rated engine speed and at 100 % load (compression ignition engines only)
3.2.8.3.1.	Minimum allowable: ……. kPa
3.2.8.3.2.	Maximum allowable: …… kPa
3.2.8.3.3.	(Euro VI only) Actual Intake system depression at rated engine speed and at 100 % load on the vehicle: …… kPa

3.2.8.4.	Description and drawings of inlet pipes and their accessories (plenum chamber, heating device, additional air intakes, etc.):
3.2.8.4.1.	Intake manifold description (include drawings and/or photos):
3.2.8.4.2.	Air filter, drawings: or
3.2.8.4.2.1.	Make(s):
3.2.8.4.2.2.	Type(s):
3.2.8.4.3.	Intake silencer, drawings: or
3.2.8.4.3.1.	Make(s):
3.2.8.4.3.2.	Type(s):
3.2.9.	Exhaust system
3.2.9.1.	Description and/or drawing of the exhaust manifold:
3.2.9.2.	Description and/or drawing of the exhaust system:
3.2.9.2.1.	(Euro VI only) Description and/or drawing of the elements of the exhaust system that are part of the engine system
3.2.9.3.	Maximum allowable exhaust back pressure at rated engine speed and at 100 % load (compression ignition engines only): …… kPa
3.2.9.3.1.	(Euro VI only) Actual exhaust back pressure at rated engine speed and at 100 % load on the vehicle (compression-ignition engines only): ..... kPa
3.2.9.4.	Type, marking of exhaust silencer(s):
	Where relevant for exterior noise, reducing measures in the engine compartment and on the engine:
3.2.9.5.	Location of the exhaust outlet:
3.2.9.6.	Exhaust silencer containing fibrous materials:
3.2.9.7.	Complete exhaust system volume: ..... dm^3
3.2.9.7.1.	(Euro VI only) Acceptable Exhaust system volume: …… dm^3
3.2.9.7.2.	(EURO VI only) Volume of the exhaust system that is part of the engine system: … dm3’
3.2.10.	Minimum cross-sectional areas of inlet and outlet ports:
3.2.11.	Valve timing or equivalent data
3.2.11.1.	Maximum lift of valves, angles of opening and closing, or timing details of alternative distribution systems, in relation to dead centres. For variable timing system, minimum and maximum timing:
3.2.11.2.	Reference and/or setting ranges ([1]):
3.2.12.	Measures taken against air pollution
3.2.12.1.	Device for recycling crankcase gases (description and drawings):
3.2.12.1.1.	(Euro VI only) Device for recycling crankcase gases: yes/no ([2])
	If yes, description and drawings:
	If no, compliance with Annex V to Regulation (EU) No 582/2011 required
3.2.12.2.	Additional pollution control devices (if any, and if not covered by another heading)
3.2.12.2.1.	Catalytic converter: yes/no ([1])
3.2.12.2.1.1.	Number of catalytic converters and elements (provide the information below for each separate unit):
3.2.12.2.1.2.	Dimensions, shape and volume of the catalytic converter(s):
3.2.12.2.1.3.	Type of catalytic action:

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3.2.12.2.1.4. Total charge of precious metals:

3.2.12.2.1.5. Relative concentration:

3.2.12.2.1.6. Substrate (structure and material):

3.2.12.2.1.7. Cell density:

3.2.12.2.1.8. Type of casing for the catalytic converter(s):

3.2.12.2.1.9. Location of the catalytic converter(s) (place and reference distance in the exhaust line):

3.2.12.2.1.10. Heat shield: yes/no ([1])

3.2.12.2.1.11. Regeneration systems/method of exhaust after-treatment systems, description:

3.2.12.2.1.11.1. Number of Type I operating cycles (or equivalent engine bench cycles) between two cycles where regenerative phases occur under the conditions equivalent to Type I test (Distance 'D' in Figure 1 in Annex 13 to UNECE Regulation No 83):

3.2.12.2.1.11.2. Description of method employed to determine the number of cycles between two cycles where regenerative phases occur:

3.2.12.2.1.11.3. Parameters to determine the level of loading required before regeneration occurs (i.e. temperature, pressure etc.):

3.2.12.2.1.11.4. Description of method used to load system in the test procedure described in paragraph 3.1 of Annex 13 to UNECE Regulation No 83):

3.2.12.2.1.11.5. Normal operating temperature range: …… K

3.2.12.2.1.11.6. Consumable reagents: yes/no ([1])

3.2.12.2.1.11.7. Type and concentration of reagent needed for catalytic action:

3.2.12.2.1.11.8. Normal operational temperature range of reagent: …… K

3.2.12.2.1.11.9. International standard:

3.2.12.2.1.11.10. Frequency of reagent refill: continuous/maintenance ([1])

3.2.12.2.1.12. Make of catalytic converter:

3.2.12.2.1.13. Identifying part number:

3.2.12.2.2. Oxygen sensor: yes/no ([1])

3.2.12.2.2.1. Make:

3.2.12.2.2.2. Location:

3.2.12.2.2.3. Control range:

3.2.12.2.2.4. Type:

3.2.12.2.2.5. Identifying part number:

3.2.12.2.3. Air injection: yes/no ([1])

3.2.12.2.3.1. Type (pulse air, air pump, etc.):

3.2.12.2.4. Exhaust gas recirculation (EGR): yes/no ([1])

3.2.12.2.4.1. Characteristics (make, type, flow, etc.):

3.2.12.2.4.2. Water-cooled system: yes/no ([1])

3.2.12.2.5. Evaporative emissions control system: yes/no ([1])

3.2.12.2.5.1. Detailed description of the devices and their state of tune:

3.2.12.2.5.2. Drawing of the evaporative control system:

3.2.12.2.5.3. Drawing of the carbon canister:

3.2.12.2.5.4. Mass of dry charcoal: …… g

3.2.12.2.5.5. Schematic drawing of the fuel tank with indication of capacity and material: .

3.2.12.2.5.6. Drawing of the heat shield between tank and exhaust system:

3.2.12.2.6. Particulate trap (PT): yes/no ([1])

3.2.12.2.6.1. Dimensions, shape and capacity of the particulate trap:

3.2.12.2.6.2. Design of the particulate trap:

3.2.12.2.6.3. Location (reference distance in the exhaust line):

3.2.12.2.6.4. Method or system of regeneration, description and/or drawing:

3.2.12.2.6.4.1. Number of Type I operating cycles (or equivalent engine bench cycles) between two cycles where regenerative phases occur under the conditions equivalent to Type I test (Distance 'D' in Figure 1 in Annex 13 to UNECE Regulation No 83):

3.2.12.2.6.4.2. Description of method employed to determine the number of cycles between two cycles where regenerative phases occur:

3.2.12.2.6.4.3. Parameters to determine the level of loading required before regeneration occurs (i.e. temperature, pressure etc.):

3.2.12.2.6.4.4 Description of method used to load system in the test procedure described in paragraph 3.1 of Annex 13 to UNECE Regulation No 83):

3.2.12.2.6.5. Make of particulate trap:

3.2.12.2.6.6. Identifying part number:

3.2.12.2.6.7. Normal operating temperature: (K) and pressure range (KPa) (heavy-duty vehicles only)

3.2.12.2.6.8. In the case of periodic regeneration (heavy-duty vehicles only)

3.2.12.2.6.8.1. Number of ETC test cycles between 2 regenerations (n1):
(not applicable to Euro VI)

3.2.12.2.6.8.1.1. (Euro VI only) Number of WHTC test cycles without regeneration ([n]):

3.2.12.2.6.8.2. Number of ETC cycles during regeneration (n2): (not applicable to Euro VI)

3.2.12.2.6.8.2.1. (Euro VI only) Number of WHTC test cycles with re-generation (nR):

3.2.12.2.6.9. Other systems: yes/no ([1])

3.2.12.2.6.9.1. Description and operation

3.2.12.2.7. On-board-diagnostic (OBD) system: yes/no ([1]):

3.2.12.2.7.0.1. (Euro VI only) Number of OBD engine families within the engine family

3.2.12.2.7.0.2. List of the OBD engine families (when applicable)

3.2.12.2.7.0.3. Number of the OBD engine family the parent engine / the engine member belongs to:

3.2.12.2.7.0.4. Manufacturer references of the OBD-Documentation required by Article 5(4)(c) and Article 9(4) of Regulation (EU) No 582/2011 and specified in Annex X to that Regulation for the purpose of approving the OBD system

3.2.12.2.7.0.5. When appropriate, manufacturer reference of the Documentation for installing in a vehicle an OBD equipped engine system

3.2.12.2.7.0.6. When appropriate, manufacturer reference of the documentation package related to the installation on the vehicle of the OBD system of an approved engine

3.2.12.2.7.1. Written description and/or drawing of the MI:

3.2.12.2.7.2. List and purpose of all components monitored by the OBD system:

3.2.12.2.7.3. Written description (general working principles) for

3.2.12.2.7.3.1 Positive-ignition engines

3.2.12.2.7.3.1.1. Catalyst monitoring:

3.2.12.2.7.3.1.2. Misfire detection:

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3.2.12.2.7.3.1.3. Oxygen sensor monitoring:

3.2.12.2.7.3.1.4. Other components monitored by the OBD system:

3.2.12.2.7.3.2. Compression-ignition engines:

3.2.12.2.7.3.2.1. Catalyst monitoring:

3.2.12.2.7.3.2.2. Particulate trap monitoring:

3.2.12.2.7.3.2.3. Electronic fuelling system monitoring:

3.2.12.2.7.3.2.4. deNOx system monitoring:

3.2.12.2.7.3.2.5 Other components monitored by the OBD system:

3.2.12.2.7.4. Criteria for MI activation (fixed number of driving cycles or statistical method):

3.2.12.2.7.5. List of all OBD output codes and formats used (with explanation of each):

3.2.12.2.7.6. The following additional information shall be provided by the vehicle manufacturer for the purposes of enabling the manufacture of OBD-compatible replacement or service parts and diagnostic tools and test equipment.

3.2.12.2.7.6.1. A description of the type and number of the preconditioning cycles used for the original type approval of the vehicle.

3.2.12.2.7.6.2. A description of the type of the OBD demonstration cycle used for the original type-approval of the vehicle for the component monitored by the OBD system.

3.2.12.7.6.3. A comprehensive document describing all sensed components with the strategy for fault detection and MI activation (fixed number of driving cycles or statistical method), including a list of relevant secondary sensed parameters for each component monitored by the OBD system. A list of all OBD output codes and format used (with an explanation of each) associated with individual emission related power-train components and individual non-emission related components, where monitoring of the component is used to determine MI activation, including in particular a comprehensive explanation for the data given in service $05 Test ID $21 to FF and the data given in service $06.

In the case of vehicle types that use a communication link in accordance with ISO 15765-4 ‘Road vehicles, diagnostics on controller area network (CAN) — Part 4: requirements for emissions-related systems’, a comprehensive explanation for the data given in service $06 Test ID $00 to FF, for each OBD monitor ID supported, shall be provided.

3.2.12.2.7.6.4. The information required above may be defined by completing a table as described below.

3.2.12.2.7.6.4.1. Low-duty vehicles

Component	Fault code	Monitoring strategy	Fault detection criteria	MI activation criteria	Secondary parameters	Pre-condition-ing	Demonstration test
Catalyst	P0420	Oxygen sensor 1 and sensor 2 signals	Difference between sensor 1 and sensor 2 signals-	3rd cycle	Engine speed load, A/F mode, catalyst temperatur e	Two type I cycles	Type I

3.2.12.2.7.6.4.2. Heavy-duty vehicles

Component	Fault code	Monitoring strategy	Fault detection criteria	MI activation criteria	Secondary parameters	Preconditioning	Demon-startion test

SCR Catalyst	Pxxx	NOx sensor 1 and sensor 2 signals	Difference between sensor 1 and sensor 2 signals-	3rd cycle	Engine speed load, catalyst temperature, reagent activity	Three OBD test cycles (3 short ESC cycles)	OBD test cycle (short ESC cycle)

3.2.12.2.7.6.5. (Euro VI only) OBD Communication protocol standard: ([8])

3.2.12.2.7.7. (Euro VI only) Manufacturer reference of the OBD related information required by of Article 5(4)(d) and Article 9(4) of Regulation (EU) No 582/2011 for the purpose of complying with the provisions on access to vehicle OBD and vehicle Repair and Maintenance Information, or

3.2.12.2.7.7.1. As an alternative to a manufacturer reference provided in Section 3.2.12.2.7.7 reference of the attachment to the information document set out in Appendix 4 of Annex I to Regulation (EU) No 582/2011 that contains the following table, once completed according to the given example:

Component - Fault code - Monitoring strategy - Fault detection criteria - MI activation criteria - Secondary parameters - Preconditioning - Demonstration test

Catalyst - P0420 - Oxygen sensor 1 and 2 signals - Difference between sensor 1 and sensor 2 signals - 3rd cycle - Engine speed, engine load, A/F mode, catalyst temperature - Two Type 1 cycles - Type 1

3.2.12.2.7.8. (EURO VI only) OBD components on-board the vehicle

3.2.12.2.7.8.0. Alternative approval as provided for in point 2.4.1 of Annex X to Regulation (EU) No 582/2011: yes/no (1)

3.2.12.2.7.8.1. List of OBD components on-board the vehicle

3.2.12.2.7.8.2. Written description and/or drawing of the MI (10)

3.2.12.2.7.8.3. Written description and/or drawing of the OBD off-board communication interface (10)'

3.2.12.2.8. Other system (description and operation):

3.2.12.2.8.1. (Euro VI only) Systems to ensure the correct operation of NOx control measures

3.2.12.2.8.2. Driver inducement system

3.2.12.2.8.2.1 (Euro VI only) Engine with permanent deactivation of the driver inducement, for use by the rescue services or in vehicles specified in point (b) of Article 2(3) of this Directive: yes/no (1)

3.2.12.2.8.2.2. Activation of the creep mode

"disable after restart"/"disable after fuelling"/"disable after parking" (1)(8)'

3.2.12.2.8.3. (Euro VI only) Number of OBD engine families within the engine family considered when ensuring the correct operation of NOx control measures

3.2.12.2.8.3.1. (Euro VI only) List of the OBD engine families within the engine family considered when ensuring the correct operation of NOx control measures (when applicable)

3.2.12.2.8.3.2. (Euro VI only) Number of the OBD engine family the parent engine/the engine member belongs to

3.2.12.2.8.5. (Euro VI only) Number of the OBD engine family the parent engine / the engine member belongs to

3.2.12.2.8.6. (Euro VI only) Lowest concentration of the active ingredient present in the reagent that does not activate the warning system (CDmin): (% vol.)

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3.2.12.2.8.7. (Euro VI only) When appropriate, manufacturer reference of the Documentation for installing in a vehicle the systems to ensure the correct operation of NOx control measures

3.2.12.2.8.8. (Euro VI only) Components on-board the vehicle of the systems ensuring the correct operation of NOx control measures

3.2.12.2.8.8.1. Activation of the creep mode:
'disable after restart' / 'disable after fuelling' / 'disable after parking' ([7])

3.2.12.2.8.8.2. When appropriate, manufacturer reference of the documentation package related to the installation on the vehicle of the system ensuring the correct operation of NOx control measures of an approved engine

3.2.12.2.8.8.3. Written description and/or drawing of the warning signal ([10])

3.2.12.2.8.8.4. Alternative approval provided for in point 2.1 of Annex XIII to Regulation (EU) No 582/2011: yes/no (1)

3.2.12.2.8.8.5. Heated/non-heated reagent tank and dosing system (see paragraph 2.4 of Annex 11 to UNECE Regulation No 49)

3.2.12.2.9. Torque limiter: yes/no ([1])

3.2.12.2.9.1. Description of the torque limiter activation (heavy-duty vehicles only):

3.2.12.2.9.2. Description of the full load curve limitation (heavy-duty vehicles only):

3.2.13. Smoke opacity

3.2.13.1. Location of the absorption coefficient symbol (compression ignition engines only):

3.2.13.2. Power at six points of measurement (see point 2.1 of Annex III to Directive 72/306/EEC as amended)

3.2.13.3. Engine power measured on test bench/on the vehicle ([1])

3.2.13.3.1. Declared speeds and powers

Measurement points	Engine speed (min 1)	Power (kW)
1……		
2……		
3……		
4……		
5……		
6……		

3.2.14. Details of any devices designed to influence fuel economy (if not covered by other items):

3.2.15. LPG fuelling system: yes/no ([1])

3.2.15.1. Type-approval number according to Directive 70/221/EEC (when the Directive will be amended to cover tanks for gaseous fuels) or approval number according to UNECE Regulation No 67 (OJ L 76, 6.4.1970, p. 34):

3.2.15.2. Electronic engine management control unit for LPG fuelling

3.2.15.2.1. Make(s):

3.2.15.2.2. Type(s):

3.2.15.2.3. Emission-related adjustment possibilities:

3.2.15.3. Further documentation

3.2.15.3.1. Description of the safeguarding of the catalyst at switch-over from petrol to LPG or back:

3.2.15.3.2.	System lay-out (electrical connections, vacuum connections compensation hoses, etc.):
3.2.15.3.3.	Drawing of the symbol:
3.2.16.	NG fuelling system: yes/no ([1])
3.2.16.1.	Type-approval number according to Directive 70/221/EEC (when the Directive will be amended to cover tanks for gaseous fuels) or approval number according to UNECE Regulation No 110 (OJ L 72, 14.3.2008, p. 113):
3.2.16.2.	Electronic engine management control unit for NG fuelling
3.2.16.2.1.	Make(s):
3.2.16.2.2.	Type(s):
3.2.16.2.3.	Emission-related adjustment possibilities:
3.2.16.3.	Further documentation
3.2.16.3.1.	Description of the safeguarding of the catalyst at switch-over from petrol to NG or back:
3.2.16.3.2.	System lay-out (electrical connections, vacuum connections compensation hoses, etc.):
3.2.16.3.3.	Drawing of the symbol:
3.2.17.	Specific information related to gas and dual-fuelled engines for heavy- duty vehicles (in the case of systems laid out in a different manner, supply equivalent information) (if applicable)
3.2.17.1.	Fuel: LPG/NG-H/NG-L/NG-HL ([1])
3.2.17.2.	Pressure regulator(s) or vaporiser/pressure regulator(s) ([1])
3.2.17.2.1.	Make(s):
3.2.17.2.2.	Type(s):
3.2.17.2.3.	Number of pressure reduction stages:
3.2.17.2.4.	Pressure in final stage minimum: … kPa — maximum: …. kPa
3.2.17.2.5.	Number of main adjustment points:
3.2.17.2.6.	Number of idle adjustment points:
3.2.17.2.7.	Type-approval number:
3.2.17.3.	Fuelling system: mixing unit/gas injection/liquid injection/ direct injection ([1])
3.2.17.3.1.	Mixture strength regulation:
3.2.17.3.2.	System description and/or diagram and drawings:
3.2.17.3.3.	Type-approval number:
3.2.17.4.	Mixing unit
3.2.17.4.1.	Number:
3.2.17.4.2.	Make(s):
3.2.17.4.3.	Type(s):
3.2.17.4.4.	Location:
3.2.17.4.5.	Adjustment possibilities:
3.2.17.4.6.	Type-approval number:
3.2.17.5.	Inlet manifold injection
3.2.17.5.1.	Injection: single point/multipoint ([1])
3.2.17.5.2.	Injection: continuous/simultaneously timed/sequentially timed ([1])

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3.2.17.5.3.	Injection equipment
3.2.17.5.3.1.	Make(s):
3.2.17.5.3.2.	Type(s):
3.2.17.5.3.3.	Adjustment possibilities:
3.2.17.5.3.4.	Type-approval number:
3.2.17.5.4.	Supply pump (if applicable)
3.2.17.5.4.1.	Make(s):
3.2.17.5.4.2.	Type(s):
3.2.17.5.4.3.	Type-approval number:
3.2.17.5.5.	Injector(s)
3.2.17.5.5.1.	Make(s):
3.2.17.5.5.2.	Type(s):
3.2.17.5.5.3.	Type-approval number:
3.2.17.6.	Direct injection
3.2.17.6.1.	Injection pump/pressure regulator ([1])
3.2.17.6.1.1.	Make(s):
3.2.17.6.1.2.	Type(s):
3.2.17.6.1.3.	Injection timing:
3.2.17.6.1.4.	Type-approval number:
3.2.17.6.2.	Injector(s)
3.2.17.6.2.1.	Make(s):
3.2.17.6.2.2.	Type(s):
3.2.17.6.2.3.	Opening pressure or characteristic diagram ([2]):
3.2.17.6.2.4.	Type-approval number:
3.2.17.7.	Electronic control unit (ECU)
3.2.17.7.1.	Make(s):
3.2.17.7.2.	Type(s):
3.2.17.7.3.	Adjustment possibilities:
3.2.17.7.4.	Software calibration number(s):
3.2.17.8.	NG fuel-specific equipment
3.2.17.8.1.	Variant 1 (only in the case of approvals of engines for several specific fuel compositions)
3.2.17.8.1.0.1.	(Euro VI only) Self adaptive feature? Yes/No ([1])
3.2.17.8.1.0.2.	(Euro VI only) Calibration for a specific gas composition NG-H/NG-L/NG-HL ([1])
	Transformation for a specific gas composition NG-Ht/ NG-Lt/NG-HLt ([1])
3.2.17.8.1.1.	Fuel composition:

methane (CH4):	basis: ……. % mole	min. …. % mole	max. … % mole
ethane (C2H6):	basis: ……. % mole	min. …. % mole	max. … % mole
propane (C3H8):	basis: ……. % mole	min. …. % mole	max. … % mole
butane (C4H10):	basis: ……. % mole	min. …. % mole	max. … % mole
C5/C5+:	basis: ……. % mole	min. …. % mole	max. … % mole

oxygen (O2):	basis: ……. % mole	min. …. % mole	max. … % mole
(N2, He, etc.):	basis: ……. % mole	min. …. % mole	max. … % mole

3.2.17.8.1.2. Injector(s)

3.2.17.8.1.2.1. Make(s):

3.2.17.8.1.2.2 Type(s):

3.2.17.8.1.3. Others (if applicable):

3.2.17.8.2. Variant 2 (only in the case of approvals for several specific fuel compositions)

3.2.17.9. When appropriate, manufacturer reference of the documentation for installing the dual-fuel engine in a vehicle (x1)

3.2.18. Hydrogen fuelling system: yes/no (1)

3.2.18.1. EC type-approval number in accordance with Regulation (EC) No 79/2009: …

3.2.18.2. Electronic engine management control unit for hydrogen fuelling

3.2.18.2.1. Make(s): …

3.2.18.2.2. Type(s): …

3.2.18.2.3. Emission-related adjustment possibilities: …

3.2.18.3. Further documentation

3.2.18.3.1. Description of the safeguarding of the catalyst at switch-over from petrol to hydrogen or back: …

3.2.18.3.2. System lay-out (electrical connections, vacuum connections compensation hoses, etc.): …

3.2.18.3.3. Drawing of the symbol: …

3.2.19. H2NG fuelling system: yes/no (1)

3.2.19.1. Percentage of hydrogen in the fuel (the maximum specified by the manufacturer): …

3.2.19.2. EC type-approval number in accordance with UNECE Regulation No 110 …

3.2.19.3. Electronic engine management control unit for H2NG fuelling

3.2.19.3.1. Make(s): …

3.2.19.3.2. Type(s): …

3.2.19.3.3. Emission-related adjustment possibilities: …

3.2.19.4. Further documentation

3.2.19.4.1. Description of the safeguarding of the catalyst at switch-over from petrol to H2NG or back: …

3.2.19.4.2. System lay-out (electrical connections, vacuum connections compensation hoses, etc.): …

3.2.19.4.3. Drawing of the symbol: …';

3.3. Electric motor

3.3.1. Type (winding, excitation):

3.3.1.1. Maximum hourly output: …… kW

3.3.1.1.1. Maximum net power (n) … kW
(manufacturer's declared value)

3.3.1.1.2. Maximum 30 minutes power (n) … kW
(manufacturer's declared value)

3.3.1.2. Operating voltage: …… V

3.3.2. Battery

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3.3.2.1.	Number of cells:
3.3.2.2.	Mass: …… kg
3.3.2.3.	Capacity: …… Ah (Amp-hours)
3.3.2.4.	Position:
3.4.	Engine or motor combination
3.4.1.	Hybrid electric vehicle: yes/no ([1])
3.4.2.	Category of hybrid electric vehicle: off-vehicle charging/not off-vehicle charging:([1])
3.4.3.	Operating mode switch: with/without ([1])
3.4.3.1.	Selectable modes
3.4.3.1.1.	Pure electric: yes/no ([1])
3.4.3.1.2.	Pure fuel consuming: yes/no ([1])
3.4.3.1.3.	Hybrid modes: yes/no ([1]) (if yes, short description):
3.4.4	Description of the energy storage device: (battery, capacitor, flywheel/generator)
3.4.4.1	Make(s):
3.4.4.2	Type(s):
3.4.4.3	Identification number:
3.4.4.4	Kind of electrochemical couple:
3.4.4.5	Energy: … (for battery: voltage and capacity Ah in 2 h, for capacitor: J,…)
3.4.4.6	Charger: on board/external/without ([1])
3.4.5	Electric motor (describe each type of electric motor separately)
3.4.5.1	Make:
3.4.5.2	Type:
3.4.5.3	Primary use: traction motor/generator ([1])
3.4.5.3.1	When used as traction motor: single-/multimotors (number) ([1]):
3.4.5.4	Maximum power: …… kW
3.4.5.5	Working principle
3.4.5.5.5.1	Direct current/alternating current/number of phases:
3.4.5.5.2	Separate excitation/series/compound ([1])
3.4.5.5.3	Synchronous/asynchronous ([1])
3.4.6	Control unit
3.4.6.1	Make(s):
3.4.6.2	Type(s):
3.4.6.3	Identification number:
3.4.7	Power controller
3.4.7.1	Make:
3.4.7.2	Type:
3.4.7.3	Identification number:
3.4.8	Vehicle electric range … km (in accordance to Annex 9 of UNECE Regulation No 101):
3.4.9	Manufacturer's recommendation for preconditioning:

3.5. CO_2 emissions/fuel consumption(^{o}) (manufacturer's declared value)

3.5.1. CO_2 mass emissions

3.5.1.1. CO_2 mass emissions (urban conditions): …… g/km

3.5.1.2. CO_2 mass emissions (extra-urban conditions): …… g/km

3.5.1.3. CO_2 mass emissions (combined): …… g/km

3.5.2. Fuel consumption (provide details for each reference fuel tested)

3.5.2.1. Fuel consumption (urban conditions): …… l/100 km or m3/100 km or kg/100km ([1])

3.5.2.2. Fuel consumption (extra-urban conditions): …… l/100 km or m3/100 km or kg/ 100km ([1])

3.5.2.3. Fuel consumption (combined): …… l/100 km or m3/100 km or kg/100km ([1])

3.5.3. Electric energy consumption for electric vehicles

3.5.3.1. Electric energy consumption for pure electric vehicles … Wh/km

3.5.3.2. Electric energy consumption for externally chargeable hybrid electric vehicles

3.5.3.2.1. Electric energy consumption (Condition A, combined) …Wh/km

3.5.3.2.2. Electric energy consumption (Condition B, combined) … Wh/km

3.5.3.2.3. Electric energy consumption (weighted combined) … Wh/km

3.5.3. Vehicle fitted with an eco-innovation within the meaning of Article 12 of Regulation (EC) No 443/2009 and Implementing Regulation (EU) No 725/2011: yes/no (1)

3.5.3.1. Type/Variant/Version of the baseline vehicle as defined in Article 5 of Implementing Regulation (EU) No 725/2011 (if applicable)

3.5.3.2. Existence of interactions between different eco-innovations:
yes/no ([1])

3.5.3.3. Emissions data related to the use of eco-innovations
(repeat the table for each reference fuel tested) (w1)

Decision approving the eco- inno vation (w2)	Code of the eco- inno– vation (w3)	1. CO_2 emissions of the baseline vehicle (g/km)	2. CO_2 emissions of the eco-innovation vehicle (g/km)	3. CO_2 emissions of the baseline vehicle under type 1 test-cycle (w4)	4. CO_2 emissions of the eco-innovation vehicle under type 1 test-cycle (= 3.5.1.3)	5. Usage factor (UF), i.e. temporal share of technology usage in normal operation conditions	CO_2 emissions savings ((1-2) - (3-4) *5
xxxx/201x							
					Total CO_2 emissions saving (g/km)		

3.5.4. CO_2 emissions for heavy duty engines (Euro VI only)

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3.5.4.1. CO2 mass emissions WHSC test ([x3]): … g/kWh

3.5.4.2. CO2 mass emissions WHSC test in diesel mode ([x2]): … g/kWh

3.5.4.3. CO2 mass emissions WHSC test in dual-fuel mode ([x1]): … g/kWh

3.5.4.4. CO2 mass emissions WHTC test ([x3])([9]): … g/kWh

3.5.4.5. CO2 mass emissions WHTC test in diesel mode ([x2])([9]): … g/kWh

3.5.4.6. CO2 mass emissions WHTC test in dual-fuel mode ([x1])([9]): … g/kWh

3.5.5. Fuel consumption for heavy duty engines (Euro VI only)

3.5.5.1. Fuel consumption WHSC test ([x3]): … g/kWh

3.5.5.2. Fuel consumption WHSC test in diesel mode ([x2]): … g/kWh

3.5.5.3. Fuel consumption WHSC test in in dual-fuel mode ([x1]): … g/kWh

3.5.5.4. Fuel consumption WHTC test ([9])([x3]): … g/kWh

3.5.5.5. Fuel consumption WHTC test in diesel mode ([9])([x2]): … g/kWh

3.5.5.6. Fuel consumption WHTC test in dual-fuel mode ([9])([x1]): … g/kWh

3.5.6. Vehicle fitted with an eco-innovation within the meaning of Article 12 of Regulation (EC) No 443/2009 for M1 vehicles or Article 12 of Regulation (EU) No 510/2011 for N1: yes/no ([1])

3.5.6.1. Type/Variant/Version of the baseline vehicle as referred to in Article 5 of Regulation (EU) No 725/2011 for M1 vehicles or Article 5 of Regulation (EU) No 427/2014 for N_1 vehicles (if applicable): …… …

3.5.6.2. Existence of interactions between different eco-innovations:
yes/no ([1])

3.5.6.3. Emissions data related to the use of eco-innovations (repeat the table for each reference fuel tested) (w1)

Decision approving the eco-innovation (w2)	Code of the eco-innovation (w3)	1. CO_2 emissions of the baseline vehicle (g/km)	2. CO_2 emissions of the eco-innovation vehicle (g/km)	3. CO_2 emissions of the baseline vehicle under Type 1 test-cycle (w4)	4. CO_2 emissions of the eco-innovation vehicle under Type 1 test-cycle (= 3.5.1.3)	5. Usage factor (UF), i.e. temporal share of technology usage in normal operation conditions	CO_2 emissions savings ((1-2) - (3-4) *5
xxxx/201x							
					Total CO_2 emissions savings (g/		

3.6 Temperatures permitted by the manufacturer

3.6.1 Cooling system

3.6.1.1 Liquid cooling
Maximum temperature at outlet: …… K

3.6.1.2 Air cooling

3.6.1.2.1 Reference point:

3.6.1.2.2 Maximum temperature at reference point: …… K

3.6.2. Maximum outlet temperature of the inlet inter cooler: …… K

3.6.3. Maximum exhaust temperature at the point in the exhaust pipe(s) adjacent to the outer flange(s) of the exhaust manifold or turbocharger: …… K

3.6.4. Fuel temperature
Minimum: …… K — maximum: …… K
For diesel engines at injection pump inlet, for gas fuelled engines at pressure regulator final stage

3.6.5. Lubricant temperature
Minimum: …. K — maximum: …… K

3.6.6. Fuel pressure
Minimum: …… kPa — maximum: …… kPa
At pressure regulator final stage, NG fuelled gas engines only.

3.7. Engine-driven equipment
Power absorbed by the auxiliaries needed for operating the engine as specified in and under the operation conditions of Directive 80/1269/EEC, Annex I, Section 5.1.1

Equipment	Power absorbed (kW) at various engine speeds						
	Idle	Low speed	High speed	Speed A (*)	Speed B (*)	Speed C (*)	Ref. speed (**)
P(a) Auxiliaries needed for operating the engine (to be subtracted) from measured engine							

(*) ESC test.

(**) ETC test only.

3.8. Lubrication system

3.8.1. Description of the system

3.8.1.1. Position of lubricant reservoir:

3.8.1.2. Feed system (by pump/injection into intake/mixing with fuel, etc.) ([1])

3.8.2. Lubricating pump

3.8.2.1. Make(s):

3.8.2.2. Type(s):

3.8.3. Mixture with fuel

3.8.3.1. Percentage: .

3.8.4 Oil cooler: yes/no ([1])

3.8.4.1 Drawing(s): .or

3.8.4.1.1 Make(s):

3.8.4.1.2 Type(s):

TRANSMISSION ([p])

4.1 Drawing of the transmission:

4.2 Type (mechanical, hydraulic, electric, etc.):

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4.2.1 A brief description of the electrical/electronic components (if any):

4.3 Moment of inertia of engine flywheel:

4.3.1 Additional moment of inertia with no gear engaged:

4.4 Clutch

4.4.1 Type:

4.4.2 Maximum torque conversion:

4.5 Gearbox

4.5.1 Type (manual/automatic/CVT (continuously variable transmission)) ([1])

4.5.2 Location relative to the engine:

4.5.3 Method of control:

4.6 Gear ratios

Gear	Internal gearbox ratios (ratios of engine to gearbox	Final drive ratio(s) (ratio of gearbox output shaft to driven	Total gear ratios
Maximum for CVT (*) 1 2 3 … Minimum for CVT (*) Reverse			

(*) Continuously variable transmission.

4.7. Maximum vehicle design speed (in km/h) ([q]):

4.8. Speedometer

4.8.1. Method of operation and description of drive mechanism:

4.8.2. Instrument constant:

4.8.3. Tolerance of the measuring mechanism (pursuant to item 2.1.3 of Annex II to Directive 75/443/EEC):

4.8.4. Overall transmission ratio (pursuant to item 2.1.2 of Annex II to Directive 75/443/EEC) or equivalent data:

4.8.5. Diagram of the speedometer scale or other forms of display:

4.9. Tachograph: yes/no ([1])

4.9.1 Approval mark:

4.10. Differential lock: yes/no/optional ([1])

4.11. Gear shift indicator (GSI)

4.11.1. Acoustic indication available yes/no ([1]). If yes, description of sound and sound level at the driver's ear in dB(A). (Acoustic indication always switchable on/off)

4.11.2. Information according to point 4.6 of Annex I to Regulation (EU) No 65/2012 (manufacturer's declared value)

4.11.3. Photographs and/or drawings of the gear shift indicator instrument and brief description of the system components and operation:

5. AXLES

5.1. Description of each axle: .

5.2. Make:

5.3. Type:

5.4. Position of retractable axle(s):

5.5. Position of loadable axle(s):

6. SUSPENSION

6.1. Drawing of the suspension arrangements:

6.2. Type and design of the suspension of each axle or group of axles or wheel:

6.2.1. Level adjustment: yes/no/optional ([1])

6.2.2. A brief description of the electrical/electronic components (if any):

6.2.3. Air-suspension for driving axle(s): yes/no ([1])

6.2.3.1. Suspension of driving axle(s) equivalent to air-suspension: yes/no ([1])

6.2.3.2. Frequency and damping of the oscillation of the sprung mass:

6.2.4. Air-suspension for non-driving axle(s): yes/no ([1])

6.2.4.1. Suspension of non-driving axle(s) equivalent to air- suspension: yes/no ([1])

6.2.4.2. Frequency and damping of the oscillation of the sprung mass:

6.3. Characteristics of the springing parts of the suspension (design, characteristics of the materials and dimensions):

6.4. Stabilisers: yes/no/optional ([1])

6.5. Shock absorbers: yes/no/optional ([1])

6.6. Tyres and wheels

6.6.1. Tyre/wheel combination(s)

(a) for tyres indicate size designation, load-capacity index, speed category symbol, rolling resistance in accordance with ISO 28580 (where applicable) ([r]);

(b) for wheels indicate rim size(s) and off-set(s)

6.6.1.1. Axles

6.6.1.1.1. Axle 1:

6.6.1.1.2. Axle 2: etc.

6.6.1.2. Spare wheel, if any:

6.6.2. Upper and lower limits of rolling radii

6.6.2.1. Axle 1:

6.6.2.2. Axle 2:

6.6.2.3. Axle 3:

6.6.2.4. Axle 4: etc.

6.6.3. Tyre pressure(s) as recommended by the vehicle manufacturer: …… kPa

6.6.4. Chain/tyre/wheel combination on the front and/or rear axle that is suitable for the type of vehicle, as recommended by the manufacturer: .

6.6.5. Brief description of temporary use spare unit (if any):

7. STEERING

7.1. Schematic diagram of steered axle(s) showing steering geometry:

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7.2.	Transmission and control
7.2.1.	Type of steering transmission (specify for front and rear, if applicable): .
7.2.2.	Linkage to wheels (including other than mechanical means; specify for front and rear, if applicable):
7.2.2.1.	A brief description of the electrical/electronic components (if any):
7.2.3.	Method of assistance (if any):
7.2.3.1.	Method and diagram of operation, make(s) and type(s):
7.2.4.	Diagram of the steering equipment as a whole, showing the position on the vehicle of the various devices influencing its steering behaviour:
7.2.5.	Schematic diagram(s) of the steering control(s):
7.2.6.	Range and method of adjustment (if any), of the steering control:
7.3.	Maximum steering angle of the wheels
7.3.1.	To the right: degrees; number of turns of the steering wheel (or equivalent data):
7.3.2.	To the left: degrees; number of turns of the steering wheel (or equivalent data):
8.	BRAKES
	(The following particulars, including means of identification, where applicable, are to be given)
8.1.	Type and characteristics of the brakes as defined in point 1.6 of Annex I to Council Directive 71/320/EEC (OJ L 205, 6.9.1971, p. 37) including details and drawings of the drums, discs, hoses make and type of shoe/pad assemblies and/or linings, effective braking areas, radius of drums, shoes or discs, mass of drums, adjustment devices, relevant parts of the axle(s) and suspension:
8.2.	Operating diagram, description and/or drawing of the braking system described in point 1.2 of Annex I to Directive 71/320/EEC including details and drawings of the transmission and controls:
8.2.1.	Service braking system:
8.2.2.	Secondary braking system:
8.2.3.	Parking braking system:
8.2.4.	Any additional braking system:
8.2.5.	Break-away braking system:
8.3.	Control and transmission of trailer braking systems in vehicles designed to tow a trailer: .
8.4.	Vehicle is equipped to tow a trailer with electric/pneumatic/ hydraulic ([1]) service brakes: yes/no ([1])
8.5.	Anti-lock braking system: yes/no/optional ([1])
8.5.1.	For vehicles with anti-lock systems, description of system operation (including any electronic parts), electric block diagram, hydraulic or pneumatic circuit plan:
8.6.	Calculation and curves according to the Appendix to point 1.1.4.2 of the Appendix to Annex II to Directive 71/320/EEC or to the Appendix to Annex XI thereto, if applicable:
8.7.	Description and/or drawing of the energy supply, also to be specified for power-assisted braking systems:
8.7.1.	In the case of compressed-air braking systems, working pressure p2 in the pressure reservoir(s):
8.7.2.	In the case of vacuum braking systems, the initial energy level in the reservoir(s):

8.8. Calculation of the braking system: Determination of the ratio between the total braking forces at the circumference of the wheels and the force applied to the braking control:

8.9. Brief description of the braking system according to point 1.6 of the Addendum to Appendix 1 of Annex IX to Directive 71/320/EEC:

8.10. If claiming exemptions from the Type I and/or Type II or Type III tests, state the number of the report in accordance with Appendix 2 of Annex VII to Directive 71/320/EEC:

8.11. Particulars of the type(s) of endurance braking system(s):

9. BODYWORK

9.1. Type of bodywork using the codes defined in Part C of Schedule II:

9.2. Materials used and methods of construction:

9.3. Occupant doors, latches and hinges

9.3.1. Door configuration and number of doors:

9.3.1.1. Dimensions, direction and maximum angle of opening:

9.3.2. Drawing of latches and hinges and of their position in the doors:

9.3.3. Technical description of latches and hinges:

9.3.4. Details, including dimensions, of entrances, steps and necessary handles where applicable:

9.4. Field of vision

9.4.1. Particulars of the primary reference marks in sufficient detail to enable them to be readily identified and the position of each in relation to the others and to the R-point to be verified:

9.4.2. Drawing(s) or photograph(s) showing the location of component parts within the 180o forward field of vision:

9.5. Windscreen and other windows

9.5.1. Windscreen

9.5.1.1. Materials used:

9.5.1.2. Method of mounting:

9.5.1.3. Angle of inclination:

9.5.1.4. Type-approval number(s):

9.5.1.5. Windscreen accessories and the position in which they are fitted together with a brief description of any electrical/ electronic components involved:

9.5.2. Other windows

9.5.2.1. Materials used:

9.5.2.2. Type-approval number(s):

9.5.2.3. A brief description of the electrical/electronic components (if any) of the window lifting mechanism:

9.5.3. Opening roof glazing

9.5.3.1. Materials used:

9.5.3.2. Type-approval number(s):

9.5.4. Other glass panes

9.5.4.1. Materials used:

9.5.4.2. Type-approval number(s):

9.6. Windscreen wiper(s)

9.6.1.	Detailed technical description (including photographs or drawings):
9.7.	Windscreen washer
9.7.1.	Detailed technical description (including photographs or drawings) or, if approved as separate technical unit, type- approval number:
9.8.	Defrosting and demisting
9.8.1.	Detailed technical description (including photographs or drawings):
9.8.2.	Maximum electrical consumption: kW
9.9.	Devices for indirect vision
9.9.1.	Rear-view mirrors, stating for each mirror:
9.9.1.1.	Make:
9.9.1.2.	Type-approval mark:
9.9.1.3.	Variant:
9.9.1.4.	Drawing(s) for the identification of the mirror showing the position of the mirror relative to the vehicle structure:
9.9.1.5.	Details of the method of attachment including that part of the vehicle structure to which it is attached:
9.9.1.6.	Optional equipment which may affect the rearward field of vision:
9.9.1.7.	A brief description of the electronic components (if any) of the adjustment system:
9.9.2.	Devices for indirect vision other than mirrors:
9.9.2.1.	Type and characteristics (such as a complete description of the device):
9.9.2.1.1.	In the case of a camera-monitor device, the detection distance (mm), contrast, luminance range, glare correction, display performance (black and white/colour), image repetition frequency, luminance reach of the monitor:
9.9.2.1.2.	Sufficiently detailed drawings to identify the complete device, including installation instructions; the position for the EC type-approval mark has to be indicated on the drawings.
9.10.	Interior arrangement
9.10.1.	Interior protection for occupants
9.10.1.1.	Layout drawing or photographs showing the position of the attached sections or views:
9.10.1.2.	Photograph or drawing showing the reference zone including the exempted area referred to in point 2.3.1 of Annex I to Council Directive 74/60/EEC (OJ L 38, 11.2.1974, p. 2):
9.10.1.3.	Photographs, drawings and/or an exploded view of the interior fittings, showing the parts in the passenger compartment and the materials used (with the exception of interior rear view mirrors), arrangement of controls, roof and opening roof, backrest, seats and the rear part of seats:
9.10.2.	Arrangement and identification of controls, tell-tales and indicators
9.10.2.1.	Photographs and/or drawings of the arrangement of symbols and controls, tell-tales and indicators:
9.10.2.2.	Photographs and/or drawings of the identification of controls, tell-tales and indicators and of the vehicle parts referred to in Annex II and III of Directive 78/316/EEC where relevant:
9.10.2.3.	Summary table
	The vehicle is equipped with the following controls, indicators and tell-tales pursuant to Annexes II and III to Directive 78/316/EEC

Controls, tell-tales and indicators for which, when fitted, identification is mandatory, and symbols to be used for that purpose

Symbol No	Device	Control/ indicator available (*)	Identified by symbol (*)	Where (**)	Tell-tale available (*)	Identified by symbol (*)	Where (**)
1	Master light						
2	Dipped-beam headlamps						
3	Main-beam headlamps						
4	Position(side) lamps						
5	Front fog lamps						
6	Rear fog lamp						
7	Headlamp levelling device						
8	Parking lamps						
9	Direction indicators						
10	Hazard warning						
11	Windscreen wiper						
12	Windscreen washer						
13	Windscreen wiper and washer						
14	Headlamp cleaning device						
15	Windscreen demisting and defrosting						
16	Rear window demisting and defrosting						
17	Ventilating fan						

18	Diesel pre-heat						
19	Choke						
20	Brake failure						
21	Fuel level						
22	Battery charging condition						
23	Engine coolant temperature						

(*) x = yes
— = no or not separately available o = optional.
(**) d = directly on control, indicator or tell-tale c = in close vicinity.

Controls, tell-tales and indicators for which, when fitted, identification is optional, and symbols which shall be used if they are to be identified

Symbol No	Device	Control/ indicator available (*)	Identified by symbol (*)	Where (**)	Tell-tale available (*)	Identified by symbol (*)	Where (**)
1	Parking brake						
2	Rear window wiper						
3	Rear window washer						
4	Rear window wiper and washer						
5	Intermittent windscreen wiper						
6	Audible warning device (horn)						
7	Front hood (bonnet)						
8	Rear hood (boot)						
9	Seat-belt						
10	Engine oil pressure						
11	Unleaded petrol						
…							
…							

(*) x = yes
— = no or not separately available o = optional.

(**) d = directly on control, indicator or tell-tale c = in close vicinity.

9.10.3. Seats

9.10.3.1. Number of seating positions (s):

9.10.3.1.1. Location and arrangement:

9.10.3.2. Seat(s) designated for use only when the vehicle is stationary: .

9.10.3.3. Mass:

9.10.3.4. Characteristics: for seats not type-approved as components, description and drawings of

9.10.3.4.1. The seats and their anchorages:

9.10.3.4.2. The adjustment system:

9.10.3.4.3. The displacement and locking systems:

9.10.3.4.4. The seat-belt anchorages (if incorporated in the seat structure):

9.10.3.4.5. The parts of the vehicle used as anchorages:

9.10.3.5. Coordinates or drawing of the R-point ([t])

9.10.3.5.1. Driver's seat:

9.10.3.5.2. All other seating positions:

9.10.3.6. Design torso angle

9.10.3.6.1. Driver's seat:

9.10.3.6.2. All other seating positions:

9.10.3.7. Range of seat adjustment

9.10.3.7.1. Driver's seat:

9.10.3.7.2. All other seating positions:

9.10.4. Head restraints

9.10.4.1. Type(s) of head restraints: integrated/detachable/separate ([1])

9.10.4.2. Type-approval number(s), if available:

9.10.4.3. For head restraints not yet approved

9.10.4.3.1. A detailed description of the head restraint, specifying in particular the nature of the padding material or materials and, where applicable, the position and specifications of the braces and anchorage pieces for the type of seat for which approval is sought:

9.10.4.3.2. In the case of a ‘separate’ head restraint

9.10.4.3.2.1. A detailed description of the structural zone to which the head restraint is intended to be fixed:

9.10.4.3.2.2. Dimensional drawings of the characteristic parts of the structure and the head restraint:

9.10.5. Heating systems for the passenger compartment

9.10.5.1. A brief description of the vehicle type with regard to the heating system if the heating system uses the heat of the engine cooling fluid:

9.10.5.2. A detailed description of the vehicle type with regard to the heating if the cooling air or the exhaust gases of the engine are used as heat source, including:

9.10.5.2.1. Layout drawing of the heating system showing its position in the vehicle:

9.10.5.2.2. Layout drawing of the heat exchanger for heating systems using the exhaust gases for heating, or of the parts where the heat exchange takes place (for heating systems using the engine cooling air for heating):

9.10.5.2.3. Sectional drawing of the heat exchanger or the parts respectively where the heat exchange takes place indicating the thickness of the wall, used materials and characteristics of the surface: .

9.10.5.2.4. Specifications shall be given for further important componentsof the heating system such as, for example, the heater fan, with regard to their method of construction and technical data:

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9.10.5.3.	A brief description of the vehicle type with regard to the combustion heating system and the automatic control:
9.10.5.3.1.	Layout drawing of the combustion heater, the air inlet system, the exhaust system, the fuel tank, the fuel supply system (including the valves) and the electrical connections showing their positions in the vehicle.
9.10.5.4.	Maximum electrical consumption: …… kW
9.10.6.	Components influencing the behaviour of the steering mechanism in the event of an impact
9.10.6.1.	A detailed description, including photograph(s) and/or drawing(s), of the vehicle type with respect to the structure, the dimensions, the lines and the constituent materials of that part of the vehicle forward of the steering control, including those components designed to contribute to the absorption of energy in the event of an impact against the steering control:
9.10.6.2.	Photograph(s) and/or drawing(s) of vehicle components other than those described in 9.10.6.1 as identified by the manufacturer in agreement with the technical service, as contributing to the behaviour of the steering mechanism in case of impact:
9.10.7.	Burning behaviour of materials used in the interior construction of certain categories of motor vehicles
9.10.7.1.	Material(s) used for the interior lining of the roof
9.10.7.1.1.	Component type-approval number(s), if available:
9.10.7.1.2.	For materials not approved
9.10.7.1.2.1.	Base material(s)/designation: ……/……
9.10.7.1.2.2.	Composite/single ([1]) material, number of layers ([1]):
9.10.7.1.2.3.	Type of coating ([1]):
9.10.7.1.2.4.	Maximum/minimum thickness: ……/…… mm
9.10.7.2.	Material(s) used for the rear and side walls
9.10.7.2.1.	Component type-approval number(s), if available:
9.10.7.2.2.	For materials not approved
9.10.7.2.2.1.	Base material(s)/designation: ……/……
9.10.7.2.2.2.	Composite/single ([1]) material, number of layers ([1]):
9.10.7.2.2.3.	Type of coating ([1]):
9.10.7.2.2.4.	Maximum/minimum thickness: ……/…… mm
9.10.7.3.	Material(s) used for the floor
9.10.7.3.1.	Component type-approval number(s), if available:
9.10.7.3.2.	For materials not approved
9.10.7.3.2.1.	Base material(s)/designation: ……/……
9.10.7.3.2.2.	Composite/single ([1]) material, number of layers ([1]):
9.10.7.3.2.3.	Type of coating ([1]):
9.10.7.3.2.4.	Maximum/minimum thickness: ……/…… mm
9.10.7.4.	Material(s) used for the upholstery of the seats
9.10.7.4.1.	Component type-approval number(s), if available:
9.10.7.4.2.	For materials not approved
9.10.7.4.2.1.	Base material(s)/designation: ……/……
9.10.7.4.2.2.	Composite/single ([1]) material, number of layers ([1]):

9.10.7.4.2.3. Type of coating ([1]):

9.10.7.4.2.4. Maximum/minimum thickness: ……/…… mm

9.10.7.5. Material(s) used for the heating and ventilation pipes

9.10.7.5.1. Component type-approval number(s), if available:

9.10.7.5.2. For materials not approved

9.10.7.5.2.1. Base material(s)/designation: ……/….

9.10.7.5.2.2. Composite/single ([1]) material, number of layers ([1]):

9.10.7.5.2.3. Type of coating ([1]):

9.10.7.5.2.4. Maximum/minimum thickness: ……/……. mm

9.10.7.6. Material(s) used for luggage racks

9.10.7.6.1. Component type-approval number(s), if available:

9.10.7.6.2. For materials not approved

9.10.7.6.2.1. Base material(s)/designation: ……/……

9.10.7.6.2.2. Composite/single ([1]) material, number of layers ([1]):

9.10.7.6.2.3. Type of coating ([1]):

9.10.7.6.2.4. Maximum/minimum thickness: ……/…… mm

9.10.7.7. Material(s) used for other purposes

9.10.7.7.1. Intended purposes:

9.10.7.7.2. Component type-approval number(s), if available:

9.10.7.7.3. For materials not approved

9.10.7.7.3.1. Base material(s)/designation: ……/……

9.10.7.7.3.2. Composite/single ([1]) material, number of layers ([1]):

9.10.7.7.3.3. Type of coating ([1]):

9.10.7.7.3.4. Maximum/minimum thickness: …./…. mm

9.10.7.8. Components approved as complete devices (seats, separation walls, luggage racks, etc.)

9.10.7.8.1. Component type-approval number(s):

9.10.7.8.2. For the complete device: seat, separation wall, luggage racks, etc. ([1])

9.10.8 Gas used as refrigerant in the air-conditioning system:

9.10.8.1 The air-conditioning system is designed to contain fluorinated greenhouse gases with global warming potential higher than 150: yes/no ([1])

9.10.8.2. If yes, fill in the following sections

9.10.8.2.1. Drawing and brief description of the air-conditioning system, including the reference or part number and material of the leak components;

9.10.8.2.2. Leakage of the air-conditioning system

9.10.8.2.4. Reference or part number and material of the components of the system and information about the test (e.g. test report number, approval number, etc.):

9.10.8.3. Overall leakage in g/year of the entire system:

9.11. External projections

9.11.1. General arrangement (drawing or photographs) indicating the position of the attached sections and views:

9.11.2. Drawings and/or photographs, for example, and where relevant, of the door and window pillars, air-intake grilles, radiator grille, windscreen wipers, rain gutter channels, handles, slide rails, flaps, door hinges and locks, hooks, eyes, decorative trim, badges, emblems and recesses and any other external projections and parts of the exterior surface which can be regarded as critical (e.g. lighting equipment). If the parts listed in the previous sentence are not critical, for documentation purposes they may be replaced by photo- graphs, accompanied if necessary by dimensional details and/or text:

9.11.3. Drawings of parts of the external surface in accordance with Annex I, item 6.9.1 to Directive 74/483/EEC:

9.11.4. Drawing of bumpers:

9.11.5. Drawing of the floor line:

9.12. Safety belts and/or other restraint systems

9.12.1. Number and position of safety belts and restraint systems and seats on which they can be used

(L = left-hand side, R = right-hand side, C = centre)

		Complete EC type-approval mark	Variant, if applicable	Belt adjustment device for height (indicate yes/no/optional)
First row of seats	L			
	C			
	R			
Second row of seats (*)	L			
	C			
	R			

(*) The table may be extended as necessary for vehicles with more than two rows of seats or if there are more than three seats across the width of the vehicle.

9.12.2. Nature and position of supplementary restraint systems
(indicate yes/no/optional)
(L = left-hand side, R = right-hand side, C = centre)

		Front air bag	Side air bag	Belt pre-loading device
First row of seats	L			
	C			
	R			
Second row of seats (*)	L			
	C			
	R			

(*) The table may be extended as necessary for vehicles with more than two rows of seats or if there are more than three seats across the width of the vehicle

9.12.3. Number and position of safety belt anchorages and proof of compliance with Directive 76/115/EEC, (i.e. type-approval number or test report):

9.12.4. A brief description of the electrical/electronic components (if any):

9.13. Safety belt anchorages

9.13.1. Photographs and/or drawings of the bodywork showing the position and dimensions of the actual and the effective anchorages including the R-points:

9.13.2. Drawings of the belt anchorages and parts of the vehicle structure where they are attached (with the material indication):

9.13.3. Designation of the types ([u]) of safety belt authorised for fitting to the anchorages with which the vehicle is equipped

					Anchorage location	
					Vehicle structure	Seat structure
First row of seats						
Right-hand seat	{	Lower anchorages	{	outboard inboard		
		Upper anchorages				
Centre seat	{	Lower anchorages	{	right left		
		Upper anchorages				
Left-hand seat	{	Lower anchorages	{	outboard inboard		
		Upper anchorages				
Second row of seats (*)						
Right-hand seat	{	Lower anchorages	{	outboard inboard		
		Upper anchorages				
Centre seat	{	Lower anchorages	{	right left		
		Upper anchorages				

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Left-hand seat	{	Lower anchorages	{	outboard inboard		
		Upper anchorages				

(*) The table may be extended as necessary for vehicles with more than two rows of seats or if there are more than three seats across the width of the vehicle.

9.13.4. Description of a particular type of safety belt where an anchorage is located in the seat backrest or incorporates an energy dissipating device:

9.14. Space for mounting rear registration plates (give range where appropriate, drawings may be used where applicable)

9.14.1. Height above road surface, upper edge:

9.14.2. Height above road surface, lower edge:

9.14.3. Distance of the centre line from the longitudinal median plane of the vehicle:

9.14.4. Distance from the left vehicle edge:

9.14.5. Dimensions (length x width):

9.14.6. Inclination of the plane to the vertical:

9.14.7. Angle of visibility in the horizontal plane:

9.15. Rear under-run protection

9.15.0. Presence: yes/no/incomplete ([1])

9.15.1. Drawing of the vehicle parts relevant to the rear under-run protection, i.e. drawing of the vehicle and/or chassis with position and mounting of the widest rear axle, drawing of the mounting and/or fitting of the rear under-run protection. If the under-run protection is not a special device, the drawing shall clearly show that the required dimensions are met:

9.15.2. In case of a special device, full description and/or drawing of the rear under-run protection (including mountings and fittings), or, if approved as separate technical unit, type- approval number:

9.16. Wheel guards

9.16.1. Brief description of the vehicle with regard to its wheel guards: .

9.16.2. Detailed drawings of the wheel guards and their position on the vehicle showing the dimensions specified in Figure 1 of Annex I to Directive 78/549/EEC and taking account of the extremes of tyre/wheel combinations:

9.17. Statutory plates

9.17.1. Photographs and/or drawings of the locations of the statutory plates and inscriptions and of the vehicle identification number:

9.17.2. Photographs and/or drawings of the statutory plate and inscriptions (completed example with dimensions):

9.17.3. Photographs and/or drawings of the vehicle identification number (completed example with dimensions):

9.17.4. Manufacturer's declaration of compliance with the requirements set out in point 3.1.1.1 of Annex to Council Directive 76/114/EEC (OJ L 24, 30.1.1976, p. 1)

9.17.4.1. The meaning of characters in the second section and, if applicable, in the third section used to comply with the requirements of section 5.3 of ISO Standard 3779-1983 shall be explained:

9.17.4.2. If characters in the second section are used to comply with the requirements of section 5.4 of ISO Standard 3779-1983 these characters shall be indicated:

9.18. Radio interference/electromagnetic compatibility

9.18.1. Description and drawings/photographs of the shapes and constituent materials of the part of the body forming the engine compartment and the part of the passenger compartment nearest to it:

9.18.2. Drawings or photographs of the position of metal components housed in the engine compartment (e.g. heating appliances, spare wheel, air filter, steering mechanism, etc.):

9.18.3. Table and drawing of radio-interference control equipment:

9.18.4. Particulars of the nominal value of the direct current resistance, and, in the case of resistive ignition cables, of their nominal resistance per metre:

9.19. Lateral protection

9.19.0. Presence: yes/no/incomplete ([1])

9.19.1. Drawing of the vehicle parts relevant to the lateral protection, i.e. drawing of the vehicle and/or chassis with position and mounting of the axle(s), drawing of the mountings and/or the fittings of lateral protection device(s). If the lateral protection is achieved without lateral protection device(s) the drawing shall clearly show that the required dimensions are met:

9.19.2. In the case of lateral protection device(s), full description and/or drawing of such device(s) (including mountings and fittings) or its/their component type-approval number(s):

9.20. Spray-suppression system

9.20.0. Presence: yes/no/incomplete ([1])

9.20.1. Brief description of the vehicle with regard to its spray- suppression system and the constituent components:

9.20.2. Detailed drawings of the spray-suppression system and its position on the vehicle showing the dimensions specified in the figures in Annex III to Directive 91/226/EEC and taking account of the extremes of tyre/wheel combinations:

9.20.3. Type-approval number(s) of spray-suppression device(s), if available:

9.21. Side-impact resistance

9.21.1. A detailed description, including photographs and/or drawings, of the vehicle with respect to the structure, the dimensions, the lines and the constituent materials of the side walls of the passenger compartment (exterior and interior), including specific details of the protection system, where applicable:

9.22. Front under-run protection

9.22.0. Presence: yes/no/incomplete ([1])

9.22.1. Drawing of the vehicle parts relevant to the front under-run protection, i.e. drawing of the vehicle and/or chassis with position and mounting and/or fitting of the front under-run protection. If the under-run protection is no special device, the drawing shall clearly show that the required dimensions are met:

9.22.2. In the case of special device, full description and/or drawing of the front under-run protection (including mountings and fittings), or, if approved as a separate technical unit, type- approval number:

9.23. Pedestrian protection

9.23.1. A detailed description, including photographs and/or drawings, of the vehicle with respect to the structure, the dimensions, the relevant reference lines and the

	constituent materials of the frontal part of the vehicle (interior and exterior), including detail of any active protection system installed.	
9.24.	Frontal protection systems	
9.24.1.	General arrangement (drawings or photographs) indicating the position and attachment of the frontal protection systems:	
9.24.2.	Drawings and/or photographs, where relevant, of air intake grilles, radiator grille, decorative trim, badges, emblems and recesses and any other external projections and parts of the exterior surface which can be regarded as critical (e.g. lighting equipment). If the parts listed in the first sentence are not critical, for documentation purposes they may be replaced by photographs, accompanied if necessary by dimensional details and/or text:	
9.24.3.	Complete details of fittings required and full instructions, including torque requirements, for fitting:	
9.24.4.	Drawing of bumpers:	
9.24.5.	Drawing of the floor line at the vehicle front end:	
10.	LIGHTING AND LIGHT SIGNALLING DEVICES	
10.1.	Table of all devices: number, make, model, type-approval mark, maximum intensity of main-beam headlamps, colour, tell-tale:	
10.2.	Drawing of the position of lighting and light signalling devices:	
10.3.	For every lamp and reflector specified in Council Directive 76/756/EEC (OJ L 262, 27.9.1976, p. 1) supply the following information (in writing and/or by diagram)	
10.3.1.	Drawing showing the extent of the illuminating surface:	
10.3.2.	Method used for the definition of the apparent surface in accordance with paragraph 2.10 of UNECE Regulation No 48 (OJ L 137, 30.5.2007, p. 1):	
10.3.3.	Axis of reference and centre of reference:	
10.3.4.	Method of operation of concealable lamps:	
10.3.5.	Any specific mounting and wiring provisions:	
10.4.	Dipped beam lamps: normal orientation in accordance to paragraph 6.2.6.1 of UNECE Regulation No 48:	
10.4.1.	Value of initial adjustment:	
10.4.2.	Location of indication:	
10.4.3.	Description/drawing ([1]) and type of headlamp levelling device (e.g. automatic, stepwise manually adjustable, continuously manually adjustable):	Applicable only for vehicles with headlamp levelling device
10.4.4.	Control device:	
10.4.5.	Reference marks:	
10.4.6.	Marks assigned for loading conditions:	

10.5. A brief description of electrical/electronic components other than lamps (if any):

11. CONNECTIONS BETWEEN TOWING VEHICLES AND TRAILERS AND SEMI-TRAILERS

11.1. Class and type of the coupling device(s) fitted or to be fitted:

11.2. Characteristics D, U, S and V of the coupling device(s) fitted or minimal characteristics D, U, S and V of the coupling device(s) to be fitted: .... daN

11.3. Instructions for attachment of the coupling type to the vehicle and photographs or drawings of the fixing points at the vehicle as stated by the manufacturer; additional information, if the use of the coupling type is restricted to certain variants or versions of the vehicle type:

11.4. Information of the fitting of special towing brackets or mounting plates:

11.5. Type-approval number(s):

12. MISCELLANEOUS

12.1. Audible warning device(s)

12.1.1. Location, method of affixing, placement and orientation of the device(s), with dimensions:

12.1.2. Number of device(s):

12.1.3. Type-approval number(s):

12.1.4. Electrical/pneumatic ([1]) circuit diagram:

12.1.5. Rated voltage or pressure:

12.1.6. Drawing of the mounting device:

12.2. Devices to prevent unauthorised use of the vehicle

12.2.1. Protective device

12.2.1.1. A detailed description of the vehicle type with regard to the arrangement and design of the control or of the unit on which the protective device acts:

12.2.1.2. Drawings of the protective device and of its mounting on the vehicle:

12.2.1.3. A technical description of the device:

12.2.1.4. Details of the lock combinations used:

12.2.1.5. Vehicle immobiliser

12.2.1.5.1. Type-approval number, if available:

12.2.1.5.2. For immobilisers not yet approved

12.2.1.5.2.1. A detailed technical description of the vehicle immobiliser and of the measures taken against inadvertent activation:

12.2.1.5.2.2. The system(s) on which the vehicle immobiliser acts:

12.2.1.5.2.3. Number of effective interchangeable codes, if applicable:

12.2.2. Alarm system (if any)

12.2.2.1. Type-approval number, if available:

12.2.2.2. For alarm systems not yet approved

12.2.2.2.1. A detailed description of the alarm system and of the vehicle parts related to the alarm system installed:

12.2.2.2.2. A list of the main components comprising the alarm system:

12.2.3. A brief description of the electrical/electronic components (if any):

12.3. Towing device(s)

12.3.1. Front: Hook/eye/other ([1])

12.3.2. Rear: Hook/eye/other/none ([1])

12.3.3. Drawing or photograph of the chassis/area of the vehicle body showing the position, construction and mounting of the towing device(s):

12.4. Details of any non-engine related devices designed to influence fuel consumption (if not covered by other items):

12.5. Details of any non-engine related devices designed to reduce noise (if not covered by other items):

12.6. Speed limitation devices

12.6.1. Manufacturer(s):

12.6.2. Type(s):

12.6.3. Type-approval number(s), if available:

12.6.4. Speed or range of speeds at which the speed limitation may be set: …… km/h

12.7. Table of installation and use of RF transmitters in the vehicle(s), if applicable:

Frequency bands (Hz)	Maximum output power (W)	Antenna position at vehicle, specific conditions for

The applicant for type-approval shall also supply, where appropriate:

Appendix 1

A list containing make and type of all electrical and/or electronic components concerned by Commission Directive 72/245/EEC (OJ L 152, 6.7.1972, p. 15).

Appendix 2

Schematics or drawing of the general arrangement of electrical and/or electronic components concerned by Directive 72/245/EEC and the general wiring harness arrangement.

Appendix 3

Description of vehicle chosen to represent the type

Body style:

Left- or right-hand drive ([1]) Wheelbase:

Appendix 4

Relevant test report(s) supplied by the manufacturer or approved/recognised laboratories for the purpose of drawing up the type-approval certificate

12.7.1. Vehicle equipped with a 24 GHz short-range radar equipment:

yes/no ([1])

13. SPECIAL PROVISIONS FOR BUSES AND COACHES

13.1. Class of vehicle: Class I/Class II/Class III/Class A/Class B ([1])

13.1.1. Type-approval number of bodywork approved as a separate technical unit: .

13.1.2. Chassis types where the type-approved bodywork can be installed (manufacturer(s), and types of incomplete vehicle):

13.2. Area for passengers (m2)

13.2.1. Total (S0):

13.2.2. Upper deck (S0a) ([1]):

13.2.3. Lower deck (S0b) ([1]):

13.2.4. For standing passengers (S1):

13.3. Number of passengers (seated and standing)

13.3.1. Total (N):

13.3.2. Upper deck (Na) ([1]):

13.3.3. Lower deck (Nb) ([1]):

13.4. Number of passengers seated

13.4.1. Total (A):

13.4.2. Upper deck (Aa) ([1]):

13.4.3. Lower deck (Ab) ([1]):

13.4.4. Number of wheelchair positions for category M_2 and M3 vehicles:

13.5. Number of service doors:

13.6. Number of emergency exits (doors, windows, escape hatches, intercommunication staircase and half staircase):

13.6.1. Total:

13.6.2. Upper deck ([1]):

13.6.3. Lower deck ([1]):

13.7. Volume of luggage compartments (m3):

13.8. Area of luggage transportation on the roof (m2):

13.9. Technical devices facilitating the access to vehicles (e.g. ramp, lifting platform, kneeling system), if fitted:

13.10. Strength of superstructure

13.10.1. Type-approval number, if available:

13.10.2. For superstructures not yet approved

13.10.2.1. Detailed description of the superstructure of the vehicle type including its dimensions, configuration and constituent materials and its attachment to any chassis frame:

13.10.2.2. Drawings of the vehicle and those parts of its interior arrangement which have an influence on the strength of the superstructure or on the residual space:

13.10.2.3. Position of centre of gravity of the vehicle in running order in the longitudinal, transverse and vertical directions:

13.10.2.4. Maximum distance between the centre lines of the outboard passenger seats:

13.11. Points of Directive 2001/85/EC of the European parliament and of the Council (OJ L 42, 13.2.2002, p. 1) to be accomplished and demonstrated for this technical unit:

13.12. Drawing with dimensions showing the interior arrangement as regards the seating positions, area for standees, wheelchair user(s), luggage compartments including racks and ski-box, if any

14. SPECIAL PROVISIONS FOR VEHICLES INTENDED FOR THE TRANSPORT OF DANGEROUS GOODS

14.1. Electrical equipment according to Council Directive 94/55/EC (OJ L 319, 12.12.1994, p. 1)

14.1.1. Protection against overheating of conductors:

14.1.2. Type of circuit breaker:

14.1.3. Type and operation of battery master switch:

14.1.4. Description and location of safety barrier for tachograph:

14.1.5. Description of permanently energised installations. Indicate the EN standard applied: .

14.1.6. Construction and protection of electrical installation situated to the rear of the driver's compartment:

14.2. Prevention of fire risks

14.2.1. Type of not readily flammable material in the driver's compartment:

14.2.2. Type of heat shield behind the driver's compartment (if applicable):

14.2.3. Position and heat protection of engine:

14.2.4. Position and heat protection of the exhaust system:

14.2.5. Type and design of the endurance braking systems heat protection:

14.2.6. Type, design and position of combustion heaters:

14.3. Special requirements for bodywork, if any, according to Directive 94/55/EC

14.3.1. Description of measures to comply with the requirements for Type EX/II and Type EX/III vehicles:

14.3.2. In the case of Type EX/III vehicles, resistance against heat from the outside:

15. REUSABILITY, RECYCLABILITY AND RECOVERABILITY

15.1. Version to which the reference vehicle belongs:

15.2. Mass of the reference vehicle with bodywork or mass of the chassis with cab, without bodywork and/or coupling device if the manufacturer does not fit the bodywork and/or coupling device (including liquids, tools, spare wheel, if fitted) without driver:

15.3. Mass of materials of the reference vehicle:

15.3.1. Mass of material taken into account at the pre-treatment step ([V]):

15.3.2. Mass of the material taken into account at the dismantling step ([V]):

15.3.3. Mass of material taken into account at the non-metallic residue treatment step, considered as recyclable ([V]):

15.3.4. Mass of material taken into account at the non-metallic residue treatment step, considered as energy recoverable ([V]):

15.3.5. Materials breakdown ([V]):

15.3.6. Total mass of materials, which are reusable and/or recyclable:

15.3.7. Total mass of materials, which are reusable and/or recoverable:

15.4. Rates

15.4.1. Recyclability rate ‘Rcyc’ (%):

15.4.2. Recoverability rate ‘Rcov’ (%):

16. ACCESS TO VEHICLE REPAIR AND MAINTENANCE INFORMATION

16.1. Address of principal website for access to vehicle repair and maintenance information: .

16.1.1. Date from which it is available (no later than 6 months from the date of type-approval):

16.2. Terms and conditions of access to website:

16.3. Format of the vehicle repair and maintenance information accessible through website:

Explanatory notes

([1]) Delete where not applicable (there are cases where nothing needs to be deleted when more than one entry is applicable).

([2]) Specify the tolerance.

([3]) Please fill in here the upper and lower values for each variant.

([4]) Only for the purpose of definition of off-road vehicles.

([5]) Vehicles can be fuelled with both petrol and a gaseous fuel but, where the petrol system is fitted for emergency purposes or starting only and of which the petrol tank cannot contain more than 15 litres of petrol, will be regarded for the test as vehicles which can only run a gaseous fuel.

([6]) Optional equipment that affects the dimensions of the vehicle shall be specified.

([7]) OJ L 353, 21.12.2012, p. 31.

([8]) To be documented in case of a single OBD engine family and if not already included in the documentation package(s) referred to in point 3.2.12.2.7.0.4.

([9]) Value for the combined WHTC including cold and hot part in accordance with Annex VIII to Regulation (EU) No 582/2011.

([10]) To be documented if not already included in the documentation referred to in point 3.2.12.2.7.0.5

([a]) If a part has been type-approved, that part need not be described if reference is made to such approval. Similarly, a part need not be described if its construction is clearly apparent from the attached diagrams or drawings. For each item for which drawings or photographs shall be attached, give numbers of the corresponding attached documents.

([b]) If the means of identification of type contains characters not relevant to describe the vehicle, component or separate technical unit types covered by this information document, such characters shall be represented in the documentation by the symbol '?'(e.g. ABC??123??).

([c]) Classified according to the definitions set out in Part A of Schedule II.

([d]) Designation according to EN 10027-1: 2005. If that is not possible, the following information shall be provided:

— description of the material,

— yield point,

— ultimate tensile stress,

— elongation (in %),

— Brinell hardness.

([e]) 'Forward control' as defined in point 2.7 of Annex I to Council Directive 74/297/EEC (OJ L 165, 20.6.1974, p. 16).

([f]) Where there is one version with a normal cab and another with a sleeper cab, both sets of masses and dimensions are to be stated.

([g]) Standard ISO 612: 1978 — Road vehicles — Dimensions of motor vehicles and towed vehicles — terms and definitions.

([g1]) Motor vehicle and drawbar trailer: term No 6.4.1.

Semi-trailer and centre-axle trailer: term No 6.4.2.

Note:

In the case of a centre-axle trailer, the axis of the coupling shall be considered as the foremost axle.

([g]2) Term No 6.19.2. ([g]3) Term No 6.20. ([g]4) Term No 6.5.

([g]5) Term No 6.1 and for vehicles other than those of category M_1: point 2.4.1 of Annex I to Directive 97/27/EC of the European Parliament and of the Council (OJ L 233, 25.8.1997, p. 1).

In the case of trailers, the lengths shall be specified as mentioned in term No 6.1.2 of Standard ISO 612: 1978. ([g]6) Term No 6.17.

([g]7) Term No 6.2 and for vehicles other than those of category M_1: point 2.4.2 of Annex I to Directive 97/27/EC.

([g]8) Term No 6.3 and for vehicles other than those of category M_1: point 2.4.3 of Annex I to Directive 97/27/EC. ([g]9) Term No 6.6.

([g1]0) Term No 6.10.

([g1]1) Term No 6.7. ([g1]2) Term No 6.11. ([g1]3) Term No 6.18.1. ([g1]4) Term No 6.9.

([h]) The mass of the driver is assessed at 75 kg.

The liquid containing systems (except those for used water that must remain empty) are filled to 100 % of the capacity specified by the manufacturer.

The information referred to in points 2.6(b) and 2.6.1(b) do not need to be provided for vehicle categories N2, N3, M_2, M3, O3, and O4.

([i]) For trailers or semi-trailers, and for vehicles coupled with a trailer or a semi-trailer, which exert a significant vertical load on the coupling device or the fifth wheel, this load, divided by standard acceleration of gravity, is included in the maximum technically permissible mass.

([j]) 'Coupling overhang' is the horizontal distance between the coupling for centre-axle trailers and the centreline of the rear axle(s).

([k]) In the case of a vehicle that can run either on petrol, diesel, etc., or also in combination with another fuel, items shall be repeated.

In the case of non-conventional engines and systems, particulars equivalent to those referred to here shall be supplied by the manufacturer.

([l]) This figure shall be rounded off to the nearest tenth of a millimetre.

([m]) This value shall be calculated (π = 3,1416) and rounded off to the nearest cm^3.

([n]) Determined in accordance with the requirements of Regulation (EC) No 715/2007 or Regulation (EC) No 595/2009 as applicable.

([o]) Determined in accordance with the requirements of Council Directive 80/1268/EEC (OJ L 375, 31.12.1980, p. 36).

([p]) The specified particulars are to be given for any proposed variants.

([q]) With respect to trailers, maximum speed permitted by the manufacturer.

([r]) For tyres of category Z intended to be fitted on vehicles whose maximum speed exceeds 300 km/h equivalent information shall be provided.

(s) The number of seating positions to be mentioned shall be the one when the vehicle is in motion. A range can be specified in case of modular arrangement.

([t]) 'R-point' or 'seating reference point' means a design point defined by the vehicle manufacturer for each seating position and established with respect to the three-dimensional reference system as specified in Annex III to Council Directive 77/649/EEC (OJ L 267, 19.10.1977, p. 1).

([u]) For symbols and marks to be used, see Annex III, items 1.1.3 and 1.1.4 to Council Directive 77/541/EEC (OJ L 220, 29.8.1977, p. 95). In the case of 'S' type belts, specify the nature of the type(s).

([v]) These terms are defined in the standard ISO 22628: 2002 — Road vehicles — recyclability and recoverability — calculation method.

(w) Eco-innovations.

(w1) Expand the table if necessary, using one extra row per eco-innovation. (w2) Number of the Commission Decision approving the eco-innovation.

(w3) Assigned in the Commission Decision approving the eco-innovation.

(w4) Under agreement of the type-approval authority, if a modelling methodology is applied instead of the type 1 test cycle, this value shall be the one provided by the modelling methodology.

(w5) Sum of the CO_2 emissions savings of each individual eco-innovation.

([x]) Dual-fuel engines.

([x1]) In case of a dual-fuel engine or vehicle.

([x2]) In the case of Type 1B, Type 2B, and Type 3B of dual-fuel engines.

([x3]) Except for dual-fuel engines or vehicles

SCHEDULE II
(Regulation 3)

Definition of vehicle categories and vehicle types

A. DEFINITION OF VEHICLE CATEGORY

Vehicle categories are defined according to the following classification: (Where reference is made to 'maximum mass' in the following definitions, this means 'technically permissible maximum laden mass' as specified in item 2.8 of Schedule I.)

1. Category M: Motor vehicles with at least four wheels designed and constructed for the carriage of passengers.

   Category M_1: Vehicles designed and constructed for the carriage of passengers and comprising no more than eight seats in addition to the driver's seat.

   Category M_2: Vehicles designed and constructed for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass not exceeding 5 tonnes.

   Category M_3: Vehicles designed and constructed for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass exceeding 5 tonnes.

The types of bodywork and codifications pertinent to the vehicles of category M are defined in Part C of this Schedule, paragraph 1 (vehicles of category M_1) and paragraph 2 (vehicles of categories M_2 and M_3) to be used for the purpose specified in that Part.

2. Category N: Motor vehicles with at least four wheels designed and constructed for the carriage of goods.

   Category N_1: Vehicles designed and constructed for the carriage of goods and having a maximum mass not exceeding 3,5 tonnes.

   Category N_2: Vehicles designed and constructed for the carriage of goods and having a maximum mass exceeding 3,5 tonnes but not exceeding 12 tonnes.

   Category N_3: Vehicles designed and constructed for the carriage of goods and having a maximum mass exceeding 12 tonnes.

   In the case of a towing vehicle designed to be coupled to a semi-trailer or centre-axle trailer, the mass to be considered for classifying the vehicle is the mass of the tractor vehicle in running order, increased by the mass corresponding to the maximum static vertical load transferred to the tractor vehicle by the semi-trailer or centre-axle trailer and, where applicable, by the maximum mass of the tractor vehicles own load.

   The types of bodywork and codifications pertinent to the vehicles of category N are defined in Part C of this Schedule, paragraph 3, to be used for the purpose specified in that Part.

3. Category O: Trailers (including semi-trailers).

   Category O_1: Trailers with a maximum mass not exceeding 0,75 tonnes

Category O_2: Trailers with a maximum mass exceeding 0,75 tonnes but not exceeding 3,5 tonnes.

Category O_3: Trailers with a maximum mass exceeding 3,5 tonnes but not exceeding 10 tonnes.

Category O_4: Trailers with a maximum mass exceeding 10 tonnes.

In the case of a semi-trailer or centre-axle trailer, the maximum mass to be considered for classifying the trailer corresponds to the static vertical load transmitted to the ground by the axle or axles of the semi-trailer or centre-axle trailer when coupled to the towing vehicle and carrying its maximum load.

The types of bodywork and codifications pertinent to the vehicles of category O are defined in Part C of this Schedule, paragraph 4, to be used for the purpose specified in that Part.

4. Off-road vehicles (symbol G)

4.1. Vehicles in category N_1 with a maximum mass not exceeding two tonnes and vehicles in category M_1 are considered to be off-road vehicles if they have:

- at least one front axle and at least one rear axle designed to be driven simultaneously including vehicles where the drive to one axle can be disengaged,
- at least one differential locking mechanism or at least one mechanism having a similar effect and if they can climb a 30% gradient calculated for a solo vehicle.

In addition, they must satisfy at least five of the following six requirements:

- the approach angle must be at least 25 degrees,
- the departure angle must be at least 20 degrees,
- the ramp angle must be at least 20 degrees,
- the ground clearance under the front axle must be at least 180 mm,
- the ground clearance under the rear axle must be at least 180 mm,
- the ground clearance between the axles must be at least 200 mm.

4.2. Vehicles in category N_1 with a maximum mass exceeding 2 tonnes or in category N_2, M_2 or M_3 with a maximum mass not exceeding 12 tonnes are considered to be off-road vehicles either if all their wheels are designed to be driven simultaneously, including vehicles where the drive to one axle can be disengaged, or if the following three requirements are satisfied:

- at least one front and at least one rear axle are designed to be driven simultaneously, including vehicles where the drive to one axle can be disengaged,
- there is at least one differential locking mechanism or at least one mechanism having a similar effect,
- they can climb a 25% gradient calculated for a solo vehicle.

4.3. Vehicles in category M_3 with a maximum mass exceeding 12 tonnes or in category N_3 are to be considered to be off-road vehicles either if the wheels are

designed to be driven simultaneously, including vehicles where the drive to one axle can be disengaged, or if the following requirements are satisfied:

- at least half the wheels are driven,
- there is at least one differential locking mechanism or at least one mechanism having a similar effect,
- they can climb a 25% gradient calculated for a solo vehicle,
- at least four of the following six requirements are satisfied:
  - the approach angle must be at least 25 degrees,
  - the departure angle must be at least 25 degrees,
  - the ramp angle must be at least 25 degrees,
  - the ground clearance under the front axle must be at least 250 mm,
  - the ground clearance between the axles must be at least 300 mm,
  - the ground clearance under the rear axle must be at least 250 mm.

4.4. Load and checking conditions.

4.4.1. Vehicles in category N_1 with a maximum mass not exceeding two tonnes and vehicles in category M_1 must be in running order, namely with coolant fluid, lubricants, fuel, tools, spare-wheel and driver (see footnote (o) in Schedule I).

4.4.2. Motor vehicles other than those referred to in 4.4.1 must be loaded to the technically permissible maximum mass stated by the manufacturer.

4.4.3. The ability to climb the required gradients (25% and 30%) is verified by simple calculation. In exceptional cases, however, the technical services may ask for a vehicle of the type concerned to be submitted to it for an actual test.

4.4.4. When measuring approach and departure angles and ramp angles, no account is taken of underrun protective devices.

4.5. ‘Definitions and sketches of ground clearance. (For definitions of approach angle, departure angle, ramp angle, see Schedule I, footnotes (na), (nb) and (nc)).

4.5.1. ‘Ground clearance between the axles’ means the shortest distance between the ground plane and the lowest fixed point of the vehicle. Multi-axled bogies are considered to be a single axle.

4.5.2. ‘Ground clearance beneath one axle’ means the distance beneath the highest point of the arc of a circle passing through the centre of the tyre footprint of the wheels on one axle (the inner wheels in the case of twin tyres) and touching the lowest fixed point of the vehicle between the wheels.

No rigid part of the vehicle may project to the shaded area of the diagram. Where appropriate, the ground clearance of several axles is indicated in accordance with their arrangement, for example 280/250/250.

4.6. Combined designation

Symbol ‘G’ shall be combined with either symbol ‘M’ or ‘N’. For example, a vehicle of category N_1 which is suited for off-road use shall be designated as N_1G.

5. ‘Special purpose vehicle’ means a vehicle intended to perform a function which requires special body arrangements and/or equipment. This category shall include wheel-chair accessible vehicles.

5.1. ‘Motor Caravan’ means a special purpose M category vehicle constructed to include living accommodation which contains at least the following equipment:

- seats and table,
- sleeping accommodation which may be converted from the seats,
- cooking facilities, and
- storage facilities.

This equipment shall be rigidly fixed to the living compartment; however, the table may be designed to be easily removable.

5.2. ‘Armoured vehicles’ means vehicles intended for the protection of conveyed passengers and/or goods and complying with armour plating anti-bullet requirements.

5.3. ‘Ambulances’ means motor vehicles of category M intended for the transport of sick or injured people and having special equipment for such purpose.

5.4. ‘Hearses’ means motor vehicles of category M intended for the transport of deceased people and having special equipment for such purpose.

5.5. ‘Wheelchair accessible vehicle’ means vehicles of category M1 constructed or converted specifically so that they accommodate one or more person(s) seated in their wheelchair(s) when travelling on the road.

5.6. ‘Trailer caravans’ see ISO Standard 3833-77, term No 3.2.1.3.

5.7. ‘Mobile cranes’ means a special purpose vehicle of category N3, not fitted for the carriage of goods, provided with a crane whose lifting moment is equal to or higher than 400 kNm.

5.8. ‘Other special purpose vehicles’ means vehicles as defined in item 5 above, with the exception of those mentioned in items 5.1 to 5.6.

5.11 ‘Exceptional load transport motor vehicle’ a road tractor or tractor unit for semi-trailer of category N3 meeting all the following conditions:

a) having more than two axles and at least half of the axles (two axles out of three in the case of a three axle vehicle and mutatis mutandis in the case of a five axle vehicle) designed to be driven simultaneously, irrespective of whether one powered axle can be disengaged,

b) which is designed for towing and pushing exceptional load transport trailer of category O4,

c) which has a minimum engine power of 350 kW, and

d) which can be equipped with an additional front coupling device for heavy towable masses

5.12 ‘Multi-equipment carrier’ an off-road vehicle of category N (as defined in point 2.3) designed and constructed for pulling, pushing, carrying and actuating certain inter-changeable equipment,

(a) with not less than two mounting areas for this equipment,

(b) with standardised, mechanical, hydraulic and/or electrical interfaces (e.g. Power take off) for powering and actuating the above mentioned equipment and

(c) which fulfills the definition of ISO 3833-1977, section 3.1.4 (special vehicle).

If the vehicle is equipped with an auxiliary load platform, its maximum length shall not exceed:

(a) 1,4 times of the front or rear track width of the vehicle, whichever is the larger in the case of two axle vehicles, or

(b) 2,0 times of the front or rear track width of the vehicle, whichever is the larger in the case of vehicles having more than two axles'

The codifications pertinent to 'special purpose vehicles' are defined in Part C of this Schedule, paragraph 5 to be used for the purpose specified in that Part.

B. DEFINITION OF VEHICLE TYPE.

1. For the purposes of category M_1:

A 'type' shall consist of vehicles which do not differ in at least the following essential respects:

- the manufacturer,
- the manufacturer's type designation,
- essential aspects of construction and design:
  - chassis/floor pan (obvious and fundamental differences),
  - power plant (internal combustion/electric/hybrid).

'Variant' of a type means vehicles within a type which do not differ in at least the following essential respects:

- body style (e.g. saloon, hatchback, coupé, convertible, station-wagon, multi-purpose vehicle),
- power plant:
  - working principle (as in item 3.2.1.1 of Schedule III),
  - number and arrangement of cylinders,
  - power differences of more than 30% (the highest is more than 1,3 times the lowest),
  - capacity differences of more than 20% (the highest is more than 1,2 times the lowest),
  - powered axles (number, position, interconnection)
  - steered axles (number and position).

'Version' of a variant means vehicles, which consist of a combination of items shown in the information package subject to the requirements in Schedule VIII.

Multiple entries of the following parameters may not be combined within one version:

- technically permissible maximum laden mass
- engine capacity,
- maximum net power
- type of gearbox and number of gears,
- maximum number of seating positions as defined in Schedule II C

2. For the purpose of categories M_2 and M_3:

A 'type' shall consist of vehicles which do not differ in at least the following essential respects:

- the manufacturer,
- the manufacturer's type designation,
- category,
- essential aspects of construction and design:
  - chassis/self-supporting body, single-/double deck, rigid/articulated (obvious and fundamental differences),
  - number of axles
  - power plant (internal combustion/electric/hybrid),

'Variant' of a type means vehicles within a type which do not differ in at least the following essential respects:

- class as defined in Directive 2001/85/EC of the European Parliament and of the Council of 20 November 2001 relating to special provisions for vehicles used for the carriage of passengers comprising more than eight seats in addition to the driver's seat (only for complete vehicles),
- extent of build (e.g. complete/incomplete),
- power plant:
  - working principle (as in item 3.2.1.1 of Schedule III),
  - number and arrangement of cylinders
  - power differences of more than 50% (the highest is more than 1,5 times the lowest),
  - capacity differences of more than 50% (the highest is more than 1,5 times the lowest),
  - location (front, mid, rear),
  - technically permissible maximum laden mass differences of more than 20% (the highest is more than 1,2 times the lowest),
  - powered axles (number, position, interconnection),
  - steered axles (number and position).

'Version' of a variant means vehicles, which consist of a combination of items shown in the information package subject to the requirements in Schedule VIII.

3. For the purpose of categories N_1, N_2 and N_3:

A 'type' shall consist of vehicles which do not differ in at least the following essential respects:

- the manufacturer,
- the manufacturer's type designation,
- category,
- essential aspects of construction and design:
  - chassis/floor pan (obvious and fundamental differences),
  - number of axles
  - power plant (internal combustion/electric/hybrid),

'Variant' of a type means vehicles within a type which do not differ in at least the following essential respects:

- body structural concept (e.g. platform truck/tipper/tanker/semi-trailer towing vehicle) (only for complete vehicles)
- extent of build (e.g. complete/incomplete),
- power plant:
  - working principle (as in item 3.2.1.1 of Schedule III),
  - number and arrangement of cylinders
  - power differences of more than 50% (the highest is more than 1,5 times the lowest),
  - capacity differences of more than 50% (the highest is more than 1,5 times the lowest),
- technically permissible maximum laden mass differences of more than 20% (the highest is more than 1,2 times the lowest),
- powered axles (number, position, interconnection),
- steered axles (number and position),

'Version' of a variant means vehicles, which consist of a combination of items shown in the information package subject to the requirements in Schedule VIII.

4. For the purpose of categories O_1, O_2, O_3 and O_4:

A 'type' shall consist of vehicles which do not differ in at least the following essential respects:

- the manufacturer,
- the manufacturer's type designation,
- category,
- essential aspects of construction and design:
  - chassis/self supporting body (obvious and fundamental differences),
  - number of axles,

- drawbar trailer/semi-trailer/centre axle trailer,
- type of braking system (e.g. unbraked/inertia/power).

'Variant' of a type means vehicles within a type which do not differ in at least the following essential respects:

- extent of build (e.g. complete/incomplete),
- body style (e.g. caravans/platform/tanker) (only for complete/completed vehicles),
- technically permissible maximum laden mass differences of more than 20 % (the highest is more than 1,2 times the lowest),
- steered axles (number and position).

'Version' of a variant means vehicles, which consist of a combination of items shown in the information package.

5. For all categories:

Full identification of the vehicle just from the designations of type, variant and version must be consistent with a single accurate definition of all the technical characteristics required for the vehicle to be put into service.

C. DEFINITION OF TYPE OF BODYWORK (only for complete/completed vehicles)

The type of bodywork in Schedule I, Schedule III, Part 1, item 9,1 and in Schedule IX, item 37 shall be indicated by the following codification:

1. Passenger cars (M1)

AA Saloon	ISO Standard 3833-1977, term No 3.1.1.1, but including also vehicles with more than four side windows.
AB Hatchback	Saloon (AA) with a hatch at the rear end of the vehicle.
AC Station wagon	ISO Standard 3833-1977, term No 3.1.1.4 (estate car)
AD Coupé	ISO Standard 3833-1977, term No 3.1.1.5
AE Convertible	ISO Standard 3833-1977, term No 3.1.1.6
AF Multi-purpose	Motor vehicle other than those mentioned in AA to AE intended for carrying passengers vehicle and their luggage or goods, in a single compartment. However, if such a vehicle meets both of the following conditions:

(i) the number of seating positions, excluding the driver, is not more than six;

a 'seating position' shall be regarded as existing if the vehicle is provided with 'accessible' seat anchorages;

'accessible' shall mean those anchorages, which can be used. In order to prevent anchorages being 'accessible', the manufacturer shall physically obstruct their use, for example by welding over cover plates or by fitting similar permanent fixtures which cannot be removed by use of normally available tools; and

(ii) $P - (M + N \times 68) > N \times 68$

where:

P = technically permissible maximum laden mass in kg

M = mass in running order in kg

N = number of seating positions excluding the driver.

This vehicle is not considered to be a vehicle of category M1.

2. Motor vehicles of category M_2 or M3

Vehicles of Class I (see Directive 2001/85/EC)

CA Single deck

CB Double deck

CC Articulated single deck

CD Articulated double deck

CE Low-floor single deck

CF Low-floor double deck

CG Articulated low-floor single deck

CH Articulated low-floor double deck

Vehicles of Class II (see Directive 2001/85/EC)

CI Single deck

CJ Double deck

CK Articulated single deck

CL Articulated double deck

CM Low-floor single deck

CN Low-floor double deck

CO Articulated low-floor single deck

CP Articulated low-floor double deck

Vehicles of Class III (see Directive 2001/85/EC)

CQ Single deck

CR Double deck

CS Articulated single deck

CT Articulated double deck

Vehicles of Class A (see Directive 2001/85/EC)

CU Single deck

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CV Low-floor single deck

Vehicles of Class B (see Directive 2001/85/EC)

CW Single deck

3. Motor vehicles of category N

BA	Lorry	See Directive 97/27/EC of the European Parliament and of the Council of 22 July 1997 relating to the masses and dimensions of certain categories of motor vehicles and their trailers, Schedule I item 2.1.1
BB	Van	Lorry with the cab integrated into the body
BC	Semi-trailer towing vehicle	See Directive 97/27/EC Annex I item 2.1.1
BD	Trailer towing vehicle (road tractor)	See Directive 97/27/EC Annex I item 2.1.1

- However, if a vehicle defined as BB with a technically permissible maximum mass not exceeding 3 500 kg:

  - has more than 6 seating positions excluding the driver

    or

  - meets both of the following conditions:

    (i) the number of seating positions, excluding the driver, is not more than 6 and

    (ii) $P - (M + N \times 68) \leq N \times 68$

    this vehicle is not considered to be a vehicle of category N.

- However, if a vehicle defined as BA, BB with a technically permissible maximum mass exceeding 3 500 kg, BC or BD meets at least one of the following conditions:

  (i) the number of seating positions, excluding the driver, is more than 8 or

  (ii) $P - (M + N \times 68) \leq N \times 68$

  this vehicle is not considered to be a vehicle of category N.

  See Part C, item 1 of this Schedule for the definitions of ‘seating positions’, P, M and N.

4. Vehicles of category O

DA	Semi-trailer	See Directive 97/27/EC Annex I item 2.2.2
DB	Drawbar trailer	See Directive 97/27/EC Annex I item 2.2.3
DC	Centre-axle trailer	See Directive 97/27/EC Annex I item 2.2.4

5. Special purpose vehicles

SA Motor caravans (See Schedule II Part A item 5.1)

SB Armoured vehicles (See Schedule II Part A item 5.2)

SC Ambulances (See Schedule II Part A item 5.3)

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SD Hearses (See Schedule II Part A item 5.4)

SE Trailer caravans (See Schedule II Part A item 5.6)

SF Mobile cranes (See Schedule II Part A item 5.7)

SG Other special purpose vehicles (See Schedule II Part A item 5.8)

SH Wheel-chair accessible vehicle (See Schedule II Part A item 5.5).

SCHEDULE III

[Regulations 3, 6(2) and (3) and 9(6)]

Information document for the purpose of EC type-approval of vehicles

(For explanatory notes, please refer to last page of Schedule I)

PART I

The following information shall be supplied in triplicate and include a list of contents. Any drawings shall be supplied in appropriate scale and in sufficient detail on size A4, or on a folder of A4 format. Photographs, if any, shall show sufficient detail.

A. Categories M and N

0. GENERAL

0.1. Make (trade name of manufacturer):

0.2. Type:

0.2.1. Commercial name(s) (if available):

0.2.2. For multi-stage approved vehicles, type-approval information of the base/previous stage vehicle (list the information for each stage. This can be done with a matrix):

Type:

Variant(s):

Version(s):

Type-approval number, including extension number

0.3. Means of identification of type, if marked on the vehicle ([b]):

0.3.1. Location of that marking:

0.4. Category of vehicle ([c]):

0.4.1. Classification(s) according to the dangerous goods which the vehicle is intended to transport:

0.5. Company name and address of manufacturer:

0.5.1. For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle

0.8. Name(s) and address(es) of assembly plant(s):

0.9. Name and address of the manufacturer's representative (if any):

1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE

1.1. Photographs and/or drawings of a representative vehicle:

1.3. Number of axles and wheels:

1.3.1. Number and position of axles with twin wheels:

1.3.2. Number and position of steered axles:

1.3.3. Powered axles (number, position, interconnection):

1.4. Chassis (if any) (overall drawing):

1.6. Position and arrangement of the engine:

1.8. Hand of drive: left/right ([1])

1.8.1. Vehicle is equipped to be driven in right/left ([1]) hand traffic

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1.9.	Specify if the towing vehicle is intended to tow semi-trailers or other trailers and, if the trailer is a semi-, drawbar-, centre-axle- or rigid drawbar trailer:
1.10.	Specify if the vehicle is specially designed for the controlled-temperature carriage of goods:
2.	MASSES AND DIMENSIONS ([f]) ([g]) ([7]) (in kg and mm) (Refer to drawing where applicable)
2.1.	Wheelbase(s) (fully loaded) ([g]1):
2.1.1.	Two-axle vehicles:
2.1.2.	Vehicles with three or more axles
2.1.2.1.	Axle spacing between consecutive axles going from the foremost to the rearmost axle:
2.1.2.2.	Total axle spacing:
2.3.1.	Track of each steered axle ([g]4):
2.3.2.	Track of all other axles ([g]4):
2.4.	Range of vehicle dimensions (overall)
2.4.1.	For chassis without bodywork
2.4.1.1.	Length ([g]5):
2.4.1.1.1.	Maximum permissible length:
2.4.1.1.2.	Minimum permissible length:
2.4.1.2.	Width ([g]7):
2.4.1.2.1.	Maximum permissible width:
2.4.1.2.2.	Minimum permissible width:
2.4.1.3.	Height (in running order) ([g]8) (for suspensions adjustable for height, indicate normal running position):
2.4.2.	For chassis with bodywork
2.4.2.1.	Length ([g]5):
2.4.2.1.1.	Length of the loading area:
2.4.2.2.	Width ([g]7):
2.4.2.2.1.	Thickness of the walls (in the case of vehicles designed for controlled-temperature transport of goods):
2.4.2.3.	Height (in running order) ([g]8) (for suspensions adjustable for height, indicate normal running position): .
2.5.	Minimum mass on the steering axle(s) for incomplete vehicles:
2.6.	Mass in running order ([h]) (a) minimum and maximum for each variant: (b) mass of each version (a matrix must be provided): 2.6.1. Distribution of this mass among the axles and, in the case of a semi-trailer a rigid drawbar trailer or a centre-axle trailer, the mass on the coupling: (a) minimum and maximum for each variant: (b) mass of each version (a matrix must be provided):
2.6.2.	Mass of the optional equipment (as defined in point (5) of Article 2 of Regulation (EU) No 1230/2012:

2.7. Minimum mass of the completed vehicle as stated by the manufacturer, in the case of an incomplete vehicle:

2.8. Technically permissible maximum laden mass stated by the manufacturer ([i])(3):

2.8.1. Distribution of this mass among the axles and, in the case of a semi-trailer or centre-axle trailer, load on the coupling point ([3]):

2.9. Technically permissible maximum mass on each axle:

2.10. Technically permissible mass on each group of axles: .

2.11. Technically permissible maximum towable mass of the towing vehicle in case of:

2.11.1. Drawbar trailer:

2.11.2. Semi-trailer:

2.11.3. Centre-axle trailer:

2.11.4. Rigid drawbar trailer:

2.11.5. Technically permissible maximum laden mass of the combination ([3]):

2.11.6. Maximum mass of unbraked trailer:

2.12. Technically permissible maximum mass at the coupling point:

2.12.1. of a towing vehicle:

2.12.2. of a semi-trailer, a centre-axle trailer or a rigid drawbar trailer:

2.16. Registration/in service maximum permissible masses (optional)

2.16.1. Registration/in service maximum permissible laden mass:

2.16.2. Registration/in service maximum permissible mass on each axle and, in the case of a semi-trailer or centre-axle trailer, intended load on the coupling point stated by the manufacturer if lower than the technically permissible maximum mass on the coupling point:

2.16.3. Registration/in service maximum permissible mass on each group of axles:

2.16.4. Registration/in service maximum permissible towable mass:

2.16.5. Registration/in service maximum permissible mass of the combination:

2.17. Vehicle submitted to multi-stage type-approval (only in the case of incomplete or completed vehicles of category N1 within the scope of Regulation (EC) No 715/ 2007: yes/no (1)

2.17.1. Mass of the base vehicle in running order: kg.

2.17.2. Default added mass (DAM), calculated in accordance with Section 5 of Annex XII to Regulation (EC) No 692/2008: kg.

3. POWER PLANT ([k])

3.1. Manufacturer of the engine:

3.1.1. Manufacturer's engine code (as marked on the engine or other means of identification):

3.1.2. Approval number (if appropriate) including fuel identification marking:
(heavy-duty vehicles only)

3.2. Internal combustion engine

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3.2.1.1.	Working principle: positive ignition/compression ignition/dual-fuel ([1])
	Cycle four stroke/two stroke/rotary ([1])
3.2.1.1.1.	Type of dual-fuel engine: Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])([x1])
3.2.1.1.2.	Gas Energy Ratio over the hot part of the WHTC test-cycle: … %
3.2.1.2.	Number and arrangement of cylinders:
3.2.1.3.	Engine capacity ([m]): …… cm^3
3.2.1.6.1	Normal engine idling speed ([2]): …… min^{-1}
3.2.1.6.2.	Idle on diesel: yes/no ([1])([x1])
3.2.1.8.	Maximum net power ([n]): …… kW at …… min^{-1} (manufacturer's declared value)
3.2.1.1.1.	(Euro VI only) Manufacturer references of the Documentation package required by Articles 5, 7 and 9 of Regulation (EU) No 582/2011 enabling the approval authority to evaluate the emission control strategies and the systems on-board the engine to ensure the correct operation of NOx control measures
3.2.2.1.	Light-duty vehicles: Diesel/Petrol/LPG/NG or Biomethane/ Ethanol (E 85)/ Biodiesel/Hydrogen ([1]) ([6])
3.2.2.2.	Heavy duty vehicles Diesel/Petrol/LPG/NG-H/NG-L/NG-HL/Ethanol (ED95)/ Ethanol (E85)/LNG/LNG20 ([1])([6])
3.2.2.2.1.	(Euro VI only) Fuels compatible with use by the engine declared by the manufacturer in accordance with Section 1.1.3 of Annex I to Regulation (EU) No 582/2011 (as applicable)
3.2.2.4.	Vehicle fuel type: Mono fuel, Bi fuel, Flex fuel ([1])
3.2.2.5.	Maximum amount of biofuel acceptable in fuel (manufacturer's declared value): …… % by volume
3.2.3.	Fuel tank(s)
3.2.3.1.	Service fuel tank(s)
3.2.3.1.1.	Number and capacity of each tank:
3.2.3.2.	Reserve fuel tank(s)
3.2.3.2.1.	Number and capacity of each tank:
3.2.4.	Fuel feed
3.2.4.1.	By carburettor(s): yes/no ([1])
3.2.4.2.	By fuel injection (compression ignition or dual-fuel only): yes/no ([1])
3.2.4.2.2.	Working principle: direct injection/pre-chamber/swirl chamber ([1])
3.2.4.3.	By fuel injection (positive ignition only): yes/no ([1])
3.2.7.	Cooling system: liquid/air ([1])
3.2.8.	Intake system
3.2.8.1.	Pressure charger: yes/no ([1])
3.2.8.2.	Intercooler: yes/no ([1])
3.2.8.3.3.	(Euro VI only) Actual Intake system depression at rated engine speed and at 100 % load on the vehicle: kPa
3.2.9.	Exhaust system
3.2.9.2.1.	(Euro VI only) Description and/or drawing of the elements of the exhaust system that are not part of the engine system

3.2.9.3.1.	(Euro VI only) Actual exhaust back pressure at rated engine speed and at 100 % load on the vehicle (compression-ignition engines only): .... kPa
3.2.9.4.	Type, marking of exhaust silencer(s): Where relevant for exterior noise, reducing measures in the engine compartment and on the engine:
3.2.9.5.	Location of the exhaust outlet:
3.2.9.7.1.	(Euro VI only) Acceptable Exhaust system volume: .. dm^3
3.2.12.	Measures taken against air pollution
3.2.12.1.1.	(Euro VI only) Device for recycling crankcase gases: yes/no ([2]) If yes, description and drawings: If no, compliance with Annex V to Regulation (EU) No 582/2011 required
3.2.12.2.	Additional pollution control devices (if any, and if not covered by another heading)
3.2.12.2.1.	Catalytic converter: yes/no ([1])
3.2.12.2.1.11.	Regeneration systems/method of exhaust after-treatment systems, description:
3.2.12.2.1.11.6.	Consumable reagents: yes/no ([1])
3.2.12.2.1.11.7.	Type and concentration of reagent needed for catalytic action:
3.2.12.2.2.	Oxygen sensor: yes/no ([1])
3.2.12.2.3.	Air injection: yes/no ([1])
3.2.12.2.4.	Exhaust gas recirculation: yes/no ([1])
3.2.12.2.5.	Evaporative emissions control system: yes/no ([1])
3.2.12.2.6.	Particulate trap: yes/no ([1])
3.2.12.2.6.9.	Other systems: yes/no ([1])
3.2.12.2.6.9.1.	Description and operation
3.2.12.2.7.	On-board-diagnostic (OBD) system: yes/no ([1])
3.2.12.2.7.0.1.	(Euro VI only) Number of OBD engine families within the engine family
3.2.12.2.7.0.2.	(Euro VI only) List of the OBD engine families (when applicable)
3.2.12.2.7.0.3.	(Euro VI only) Number of the OBD engine family the parent engine / the engine member belongs to:
3.2.12.2.7.0.4.	(Euro VI only) Manufacturer references of the OBD-Documentation required by Article 5(4)(c) and Article 9(4) of Regulation (EU) No 582/2011 and specified in Annex X to that Regulation for the purpose of approving the OBD system
3.2.12.2.7.0.5.	(Euro VI only) When appropriate, manufacturer reference of the Documentation for installing in a vehicle an OBD equipped engine system
3.2.12.2.7.0.6.	(Euro VI only) When appropriate, manufacturer reference of the documentation package related to the installation on the vehicle of the OBD system of an approved engine
3.2.12.2.7.6.5.	(Euro VI only) OBD Communication protocol standard: ([8])
3.2.12.2.7.7.	(Euro VI only) Manufacturer reference of the OBD related information required by of Article 5(4)(d) and Article 9(4) of Regulation (EU) No 582/2011 for the purpose of complying with the provisions on access to vehicle OBD and vehicle Repair and Maintenance Information, or
3.2.12.2.7.7.1.	As an alternative to a manufacturer reference provided in Section 3.2.12.2.7.7 reference of the attachment to the information document set out in Appendix 4 of

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	Annex III to Regulation (EU) No 582/2011 that contains the following table, once completed according to the given example:
	Component — Fault code — Monitoring strategy — Fault detection criteria — MI activation criteria — Secondary parameters — Preconditioning — Demonstration test
	Catalyst — P0420 — Oxygen sensor 1 and 2 signals — Difference between sensor 1 and sensor 2 signals — 3rd cycle — Engine speed, engine load, A/F mode, catalyst temperature — Two Type 1 cycles — Type 1
3.2.12.2.7.8.	(EURO VI only) OBD components on-board the vehicle
3.2.12.2.7.8.1.	List of OBD components on-board the vehicle
3.2.12.2.7.8.2.	Written description and/or drawing of the MI ([10])
3.2.12.2.7.8.3.	Written description and/or drawing of the OBD off-board communication interface ([10])
3.2.12.2.8.	Other systems (description and operation):
3.2.12.2.8.1.	(Euro VI only) Systems to ensure the correct operation of NOx control measures
3.2.12.2.8.2.	Driver inducement system
3.2.12.2.8.2.1.	(Euro VI only) Engine with permanent deactivation of the driver inducement, for use by the rescue services or in vehicles specified in point (b) of Article 2(3) of this Directive: yes/no ([1])
3.2.12.2.8.3.	(Euro VI only) Number of OBD engine families within the engine family considered when ensuring the correct operation of NOx control measures
3.2.12.2.8.4.	(Euro VI only) List of the OBD engine families (when applicable)
3.2.12.2.8.5.	(Euro VI only) Number of the OBD engine family the parent engine / the engine member belongs to
3.2.12.2.8.6.	(Euro VI only) Lowest concentration of the active ingredient present in the reagent that does not activate the warning system (CDmin): (% vol.)
3.2.12.2.8.7.	(Euro VI only) When appropriate, manufacturer reference of the Documentation for installing in a vehicle the systems to ensure the correct operation of NOx control measures
3.2.12.2.8.8.	Components on-board the vehicle of the systems ensuring the correct operation of NOx control measures
3.2.12.2.8.8.1.	Activation of the creep mode: ‘disable after restart’ / ‘disable after fuelling’ / ‘disable after parking’ ([7])
3.2.12.2.8.8.2.	When appropriate, manufacturer reference of the documentation package related to the installation on the vehicle of the system ensuring the correct operation of NOx control measures of an approved engine
3.2.12.2.8.8.3.	Written description and/or drawing of the warning signal ([6])
3.2.12.2.9.	Torque limiter: yes/no ([1])
3.2.13.1.	Location of the absorption coefficient symbol (compression ignition engines only):
3.2.15.	LPG fuelling system: yes/no ([1])
3.2.16.	NG fuelling system: yes/no ([1])
3.2.17.8.1.0.1.	(Euro VI only) Self adaptive feature? Yes/No ([1])

3.2.17.8.1.0.2.	(Euro VI only) Calibration for a specific gas composition NG-H/NG-L/NG-HL ([1]) Transformation for a specific gas composition NG-Ht/NG-Lt/NG-HLt ([1])
3.3.	Electric motor
3.3.1.	Type (winding, excitation):
3.3.1.1.	Maximum hourly output: …… kW
3.3.1.1.1.	Maximum net power (n) … kW (manufacturer's declared value)
3.3.1.1.2.	Maximum 30 minutes power (n) … kW (manufacturer's declared value)
3.3.1.2.	Operating voltage: …… V
3.3.2.	Battery
3.3.2.4.	Position:
3.4.	Engine or motor combination
3.4.1.	Hybrid electric vehicle: yes/no ([1])
3.4.2.	Category of hybrid electric vehicle: off-vehicle charging/not off- vehicle charging: ([1])
3.5.4.	(Euro VI only) CO_2 emissions for heavy duty engines
3.5.4.1.	CO2 mass emissions WHSC test ([x3]): … g/kWh
3.5.4.2.	CO2 mass emissions WHSC test in diesel mode ([x2]): … g/kWh
3.5.4.3.	CO2 mass emissions WHSC test in dual-fuel mode ([x1]): … g/kWh
3.5.4.4.	CO2 mass emissions WHTC test ([9])([x3]): … g/kWh
3.5.4.5.	CO2 mass emissions WHTC test in diesel mode ([9])([x2]): … g/kWh
3.5.4.6.	CO2 mass emissions WHTC test in dual-fuel mode ([9])([x1]): … g/kWh
3.5.5.	(Euro VI only) Fuel consumption for heavy duty engines
3.5.5.1.	Fuel consumption WHSC test ([x3]): … g/kWh
3.5.5.2.	Fuel consumption WHSC test in diesel mode ([x2]): … g/kWh
3.5.5.3.	Fuel consumption WHSC test in dual-fuel mode ([x1]): … g/kWh
3.5.5.4.	Fuel consumption WHTC test ([9])([x3]): … g/kWh
3.5.5.5.	Fuel consumption WHTC test in diesel mode ([9])([x2]): … g/kWh
3.5.5.6.	Fuel consumption WHTC test in dual-fuel mode ([9])([x1]): … g/kWh
3.6.5.	Lubricant temperature Minimum: …… K Maximum: …… K
4.	TRANSMISSION ([p])
4.2.	Type (mechanical, hydraulic, electric, etc.):
4.5.	Gearbox
4.5.1.	Type (manual/automatic/CVT (continuously variable transmission)) ([1])
4.6.	Gear ratios

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Gear	Internal gearbox ratios (ratios of engine to gearbox output shaft	Final drive ratio(s) (ratio of gearbox output shaft to driven	Total gear ratios
Maximum for CVT			
1			
2			
3			
...			
Reverse			

4.7. Maximum vehicle design speed (in km/h) ([q])

4.9. Tachograph: yes/no ([1])

4.9.1 Approval mark:

4.11. Gear shift indicator (GSI)

4.11.1. Acoustic indication available yes/no ([1]). If yes, description of sound and sound level at the driver's ear in dB(A). (Acoustic indication always switchable on/off)

4.11.2. Information according to point 4.6 of Annex I to Regulation (EU) No 65/2012 (determined at type-approval)

5. AXLES

5.1. Description of each axle:

5.2. Make:

5.3. Type:

5.4. Position of retractable axle(s):

5.5. Position of loadable axle(s):

6. SUSPENSION

6.2. Type and design of the suspension of each axle or wheel:

6.2.1. Level adjustment: yes/no/optional ([1])

6.2.3. Air-suspension for driving axle(s): yes/no ([1])

6.2.3.1. Suspension of driving axle equivalent to air-suspension: yes/no ([1])

6.2.4. Air-suspension for non-driving axle(s): yes/no ([1])

6.2.4.1. Suspension of non-driving axle(s) equivalent to air-suspension: yes/no ([1])

6.6.1. Tyre/wheel combination(s)

(a) for tyres indicate size designation, load-capacity index, speed category symbol, rolling resistance in accordance with ISO 28580 (where applicable) ([r]);

(b) for wheels indicate rim size(s) and off-set(s)

6.6.1.1. Axles

6.6.1.1.1. Axle 1:

6.6.1.1.2. Axle 2: .... etc.

6.6.1.2.	Spare wheel, if any:
6.6.2.	Upper and lower limits of rolling radii
6.6.2.1.	Axle 1:
6.6.2.2.	Axle 2: etc.
7.	STEERING
7.2.	Transmission and control
7.2.1.	Type of steering transmission (specify for front and rear, if applicable):
7.2.2.	Linkage to wheels (including other than mechanical means; specify for front ans rear, if applicable):
7.2.3.	Method of assistance, if any:
8.	BRAKES
8.5.	Anti-lock braking system: yes/no/optional ([1])
8.9.	Brief description of the braking system according to item 1.6 of the Addendum to Appendix 1 of Annex IX to Directive 71/320/EEC:
8.11.	Particulars of the type(s) of endurance braking system(s):
9.	BODYWORK
9.1.	Type of bodywork using the codes set out in Part C of Annex II:
9.3.	Occupant doors, latches and hinges
9.3.1.	Door configuration and number of doors:
9.9.	Devices for indirect vision
9.9.1.	Rear-view mirrors, stating, for each rear-view mirror:
9.9.1.1.	Make:
9.9.1.2.	Type-approval mark:
9.9.1.3.	Variant:
9.9.1.6.	Optional equipment which may affect the rearward field of vision:
9.9.2.	Devices for indirect vision other than mirrors:
9.9.2.1.	Type and description of the device:
9.10.	Interior arrangement
9.10.3.	Seats
9.10.3.1.	Number of seating positions ([S]):
9.10.3.1.1.	Location and arrangement:
9.10.3.2.	Seat(s) designated for use only when the vehicle is stationary:
9.10.4.1.	Type(s) of head restraints: integrated/detachable/separate ([1])
9.10.4.2.	Type-approval number(s), if available:
9.10.8	Gas used as refrigerant in the air-conditioning system:
9.10.8.1.	The air-conditioning system is designed to contain fluorinated greenhouse gases with a global warming potential higher than 150: yes/no ([1])
9.12.2.	Nature and position of supplementary restraint systems (indicate yes/no/optional): (L = left-hand side, R = right-hand side, C = centre)

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		Front air-bag	Side air-bag	Belt pre-loading device
First row of seats	L			
	C			
	R			
Second row of seats (*)	L			
	C			
	R			

(*) The table may be extended as necessary for vehicles with more than two rows of seats or if there are more than three seats across the width of the vehicle

9.17. Statutory plates

9.17.1. Photographs and/or drawings of the locations of the statutory plates and inscriptions and of the vehicle identification number:

9.17.2. Photographs and/or drawings of the statutory plate and inscriptions (completed example with dimensions):

9.17.3. Photographs and/or drawings of the vehicle identification number (completed example with dimensions):

9.17.4.1. The meaning of characters in the second section and, if applicable, in the third section used to comply with the requirements of section 5.3 of ISO Standard 3779-1983 shall be explained:

9.17.4.2. If characters in the second section are used to comply with the requirements of section 5.4 of ISO Standard 3779-1983, these characters shall be indicated:

9.22. Front under-run protection

9.22.0. Presence: yes/no/incomplete ([1])

9.23. Pedestrian protection

9.23.1. A detailed description, including photographs and/or drawings, of the vehicle with respect to the structure, the dimensions, the relevant reference lines and the constituent materials of the frontal part of the vehicle (interior and exterior), including detail of any active protection system installed

9.24. Frontal protection systems

9.24.1. General arrangement (drawings or photographs) indicating the position and attachment of the frontal protection systems:

9.24.3. Complete details of fittings required and full instructions, including torque requirements, for fitting:

11. CONNECTIONS BETWEEN TOWING VEHICLES AND TRAILERS AND SEMI-TRAILERS

11.1. Class and type of the coupling device(s) fitted or to be fitted:

11.3. Instructions for attachment of the coupling type to the vehicle and photographs or drawings of the fixing points at the vehicle as stated by the manufacturer; additional information, if the use of the coupling type is restricted to certain variants or versions of the vehicle type:

11.4. Information of the fitting of special towing brackets or mounting plates:

11.5.	Type-approval number(s):
12.	MISCELLANEOUS
12.7.1.	Vehicle equipped with a 24 GHz short-range radar equipment: yes/no ([1])
13.	SPECIAL PROVISIONS FOR BUSES AND COACHES
13.1.	Class of vehicle: Class I/Class II/Class III/Class A/Class B ([1])
13.1.2.	Chassis types where the type-approved bodywork can be installed (manufacturer(s), and vehicle(s) types):
13.3.	Number of passengers (seated and standing)
13.3.1.	Total (N):
13.3.2.	Upper deck (Na) ([1]):
13.3.3.	Lower deck (Nb) ([1]):
13.4.	Number of passengers (seated)
13.4.1.	Total (A):
13.4.2.	Upper deck (Aa) ([1]):
13.4.3.	Lower deck (Ab) ([1]):
13.4.4.	Number of wheelchair positions for category M_2 and M3 vehicles:
16.	ACCESS TO VEHICLE REPAIR AND MAINTENANCE INFORMATION
16.1.	Address of principal website for access to vehicle repair and maintenance information:
B.	Category O
0.	GENERAL
0.1.	Make (trade name of manufacturer):
0.2.	Type:
0.2.1.	Commercial name(s) (if available):
0.3.	Means of identification of type, if marked on the vehicle (b):
0.3.1.	Location of that marking:
0.4.	Category of vehicle ([c]):
0.4.1.	Classification(s) according to the dangerous goods which the vehicle is intended
0.5.	Company name and address of manufacturer:
0.8.	Name(s) and address(es) of assembly plant(s):
0.9.	Name and address of the manufacturer's representative (if any):
1.	GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE
1.1.	Photographs and/or drawings of a representative vehicle:
1.3.	Number of axles and wheels:
1.3.1.	Number and position of axles with twin wheels:
1.3.2.	Number and position of steered axles:
1.4.	Chassis (if any) (overall drawing): .
1.9.	Specify if the towing vehicle is intended to tow semi-trailers or other trailers and, if the trailer is a semi-, drawbar-, centre-axle- or rigid drawbar trailer:
1.10.	Specify if the vehicle is specially designed for the controlled-temperature carriage of goods:

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2.	MASSES AND DIMENSIONS ([f]) ([g]) ([7]) (in kg and mm) (Refer to drawing where applicable)
2.1.	Wheelbase(s) (fully loaded) ([g]1):
2.1.1.	Two-axle vehicles:
2.1.2.	Vehicles with three or more axles
2.1.2.1.	Axle spacing between consecutive axles going from the foremost to the rearmost axle:
2.1.2.2.	Total axle spacing:
2.3.1.	Track of each steered axle ([g]4):
2.3.2.	Track of all other axles ([g]4):
2.4.	Range of vehicle dimensions (overall)
2.4.1.	For chassis without bodywork
2.4.1.1.	Length ([g]5):
2.4.1.1.1.	Maximum permissible length:
2.4.1.1.2.	Minimum permissible length:
2.4.1.1.3.	In the case of trailers, maximum permissible drawbar length ([g]6):
2.4.1.2.	Width ([g]7):
2.4.1.2.1.	Maximum permissible width:
2.4.1.2.2.	Minimum permissible width:
2.4.2.	For chassis with bodywork
2.4.2.1.	Length ([g]5):
2.4.2.1.1.	Length of the loading area:
2.4.2.1.2.	In the case of trailers, maximum permissible drawbar length ([g]6):
2.4.2.2.	Width ([g]7):
2.4.2.2.1.	Thickness of the walls (in the case of vehicles designed for controlled-temperature transport of goods):
2.4.2.3.	Height (in running order) ([g]8) (for suspension adjustable for height, indicate normal running position): .
2.6.	Mass in running order ([h])
	(a) minimum and maximum for each variant:
	(b) mass of each version (a matrix must be provided):
2.6.1.	Distribution of this mass among the axles and, in the case of a semi-trailer a rigid drawbar trailer or a centre-axle trailer, the mass on the coupling:
	(a) minimum and maximum for each variant: .
	(b) mass of each version (a matrix must be provided):
2.6.2.	Mass of the optional equipment (as defined in point (5) of Article 2 of Regulation (EU) No 1230/2012:
2.7.	Minimum mass of the completed vehicle as stated by the manufacturer, in the case of an incomplete vehicle:
2.8.	Technically permissible maximum laden mass stated by the manufacturer ([i]) ([3]):
2.8.1.	Distribution of this mass among the axles, and in the case of a semi-trailer or centre-axle trailer, load on the coupling point ([3]):

2.9. Technically permissible maximum mass on each axle:

2.10. Technically permissible mass on each group of axles: .

2.12. Technically permissible maximum mass at the coupling point:

2.12.2. Of a semi-trailer, a centre-axle trailer or a rigid drawbar trailer:

2.16. Registration/in service maximum permissible masses (optional)

2.16.1. Registration/in service maximum permissible laden mass:

2.16.2. Registration/in service maximum permissible mass on each axle and, in the case of a semi-trailer or centre-axle trailer, intended load on the coupling point stated by the manufacturer if lower than the technically permissible maximum mass on the coupling point:

2.16.3. Registration/in service maximum permissible mass on each group of axles:

2.16.4. Intended registration/in service maximum permissible towable mass (several entries possible or each technical configuration([5])):

4. TRANSMISSION

4.7. Maximum vehicle design speed (in km/h) ([q])

5. AXLES

5.1. Description of each axle: .....

5.2. Make:

5.3. Type:

5.4. Position of retractable axle(s):

5.5. Position of loadable axle(s):

6. SUSPENSION

6.2. Type and design of the suspension of each axle or wheel:

6.2.1. Level adjustment: yes/no/optional ([1])

6.2.4. Air-suspension for non-driving axle(s): yes/no ([1])

6.2.4.1. Suspension of non-driving axle(s) equivalent to air-suspension:
yes/no ([1])

6.6.1. Tyre/wheel combination(s)

(a) for tyres indicate size designation, load-capacity index, speed category symbol, rolling resistance in accordance with ISO 28580 (where applicable) ([r]);

(b) for wheels indicate rim size(s) and off-set(s)

6.6.1.1. Axles

6.6.1.1.1. Axle 1:

6.6.1.1.2. Axle 2: etc.

6.6.1.2. Spare wheel, if any:

6.6.2. Upper and lower limit of rolling radii

6.6.2.1. Axle 1:

6.6.2.2. Axle 2: etc.

7. STEERING

7.2. Transmission and control

7.2.1. Type of steering transmission (specify for front and rear, if applicable):

7.2.2.	Linkage to the wheels (including other than mechanical means; specify for front and rear, if applicable): .
7.2.3.	Method of assistance, if any:
8.	BRAKES
8.5.	Antilock braking system: yes/no/optional ([1])
8.9.	Brief description of the braking system, according to item 1.6 of the addendum to Appendix 1 of Annex IX to Directive 71/320/EEC:
9.	BODYWORK
9.1.	Type of bodywork using the codes defined in Part C of Schedule II:
9.17.	Statutory plates
9.17.1.	Photographs and/or drawings of the locations of the statutory plates and inscriptions and of the vehicle identification number:
9.17.2.	Photographs and/or drawings of the statutory plate and inscriptions (completed example with dimensions):
9.17.3.	Photographs and/or drawings of the vehicle identification number (completed example with dimensions):
9.17.4.1.	The meaning of characters in the second section and, if applicable, in the third section used to comply with the requirements of section 5.3 of ISO Standard 3779-1983 shall be explained:
9.17.4.2.	If characters in the second section are used to comply with the requirements of section 5.4 of ISO Standard 3779-1983 these characters shall be indicated:
11.	CONNECTIONS BETWEEN TOWING VEHICLES AND TRAILERS AND SEMI-TRAILERS
11.1.	Class and type of the coupling device(s) fitted or to be fitted:
11.5.	Type-approval number(s):

PART II

Matrix showing the combinations of the entries listed in Part I within the versions and variants of the vehicle type

Item No	All	Version 1	Version 2	Version 3	Version n

Notes:

([a]) A separate matrix shall be compiled for each variant within the type.

([b]) Entries for which there are no restrictions on their combination within a variant shall be listed in the column headed ‘all’.

([c]) The above information may be presented in an alternative layout or merged with the information supplied in Part I.

([d]) Each variant and each version shall be identified by an alphanumerical code consisting of a combination of letters and numbers, which shall also be indicated in the certificate of conformity (Annex IX) of the vehicle concerned.

([e]) Variant(s) which fall(s) under Annex XI shall be identified by a specific alphanumerical code.

PART III

Type-approval numbers

Supply the information required by the following table in respect of the applicable subjects for this vehicle in Schedule IV or Schedule XI. (All relevant approvals for each subject shall be included. However, information in respect of components need not be given here so long as such information is included in the approval certificate relating to the installation prescriptions).

Subject	Type-approval number or test report number (***)	ember State or Contracting Party (*) issuing the type-approval (**) or test	Extension date	Variant(s)/ version(s)

(*) Contracting Parties to the Revised 1958 Agreement.

(**) To be indicated if not obtainable from the type-approval number.

(***) To be indicated when the manufacturer applies the provisions of Article 9(6). In

Signed:

Position in company:

Date:

SCHEDULE IV

[Regulations 3, 6(2) and (3), 9(1)(a) and (2), 10(1) and (2), 11(1), 12(2)(b), 20(1), 21(1), 25(3), 28(1), 29(1) and (3), 30(1), 32(2), (3)(a) and (b) and (4), and 35(3)]

List of requirements for the purpose of EC type-approval of vehicles

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PART I
Regulatory acts for EC type-approval of vehicles produced in unlimited series

Item	Subject	Regulatory act	Applicability									
			M_1	M_2	M_3	N_1	N_2	N_3	O_1	O_2	O_3	O_4
1	Permissible sound level	Directive 70/157/EEC	X	X	X	X	X	X				
2A	Emissions (Euro 5 and 6) light duty vehicles/access to information	Regulation (EC) No 715/2007	X (1)	X (1)		X (1)	X (1)					
3	Fuel tanks/ rear protective devices	Directive 70/221/EEC	X (2)	X (2)	X (2)	X (2)	X (2)	X (2)	X	X	X	X
3A	Prevention of fire risks (liquid fuel tanks)	Regulation (EC) No 661/2009UNECE Regulation No 34	X	X	X	X	X	X	X	X	X	X
3B	Rear under-run protective devices (RUPDs) and their installation; rear under-run protection (RUP)	Regulation (EC) No 661/2009UNECE Regulation No 58	X	X	X	X	X	X	X	X	X	X
4	Rear registration plate space	Directive 70/222/EEC	X	X	X	X	X	X	X	X	X	X
4A	Space for mounting and fixing rear registration plates	Regulation (EC) No 661/2009Regulation (EU) No 1003/2010	X	X	X	X	X	X	X	X	X	X
5	Steering effort	Directive 70/311/EEC	X	X	X	X	X	X	X	X	X	X
5A	Steering equipment	Regulation (EC) No 661/2009UNECE Regulation No 79	X	X	X	X	X	X	X	X	X	X
6	Door latches and hinges	Directive 70/387/EEC	X			X	X	X				
6A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009Regulation (EU) No 130/2012	X	X	X	X	X	X				
6B	Door latches and door retention components	Regulation (EC) No 661/2009UNECE Regulation No 11	X			X						
7	Audible warning	Directive 70/388/EEC	X	X	X	X	X	X				

7A	Audible warning devices and signals	Regulation (EC) No 661/2009UNECE Regulation No 28	X	X	X	X	X	X				
8	Indirect vision devices	Directive 2003/97/ EC	X	X	X	X	X	X				
8A	Devices for indirect vision and their installation	Regulation (EC) No 661/2009UNECE Regulation No 46	X	X	X	X	X	X				
9	Braking	Directive 71/320/ EEC	X	X	X	X	X	X	X	X	X	X
9A	Braking of vehicles and trailers	Regulation (EC) No 661/2009UNECE Regulation No 13		X (3)	X (3)	X (3)	X (3)	X (3)	X (3)	X (3)	X (3)	X (3)
9B	Braking of passenger cars	Regulation (EC) No 661/2009UNECE Regulation No 13-H	X (4)			X (4)						
10	Radio interference (electromagnetic compatibility)	Directive 72/245/ EEC	X	X	X	X	X	X	X	X	X	X
10A	Electromagnetic compatibility	Regulation (EC) No 661/2009UNECE Regulation No 10	X	X	X	X	X	X	X	X	X	X
12	Interior fittings	Directive 74/60/EEC	X									
12A	Interior fittings	Regulation (EC) No 661/2009UNECE Regulation No 21	X									
13	Anti-theft and immobiliser	Directive 74/61/EEC	X	X	X	X	X	X				
13A	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009UNECE Regulation No 18		X (4A)	X (4A)		X (4A)	X (4A)				
13B	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009UNECE Regulation No 116	X			X						
14	Protective steering	Directive 74/297/ EEC	X			X						
14A	Protection of the driver against the steering mechanism in the event of impact	Regulation (EC) No 661/2009UNECE Regulation No 12	X			X						

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15	Seat strength	Directive 74/408/ EEC	X	X	X	X	X	X				
15A	Seats, their anchorages and any head restraints	Regulation (EC) No 661/2009UNECE Regulation No 17	X	X (4B)	X (4B)	X	X	X				
15B	Seats of large passenger vehicles	Regulation (EC) No 661/2009UNECE Regulation No 80		X	X							
16	Exterior projections	Directive 74/483/ EEC	X									
16A	External projections	Regulation (EC) No 661/2009UNECE Regulation No 26	X									
17	Speedometer and reverse gear	Directive 75/443/ EEC	X	X	X	X	X	X				
17A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009Regulation (EU) No 130/2012	X	X	X	X	X	X				
17B	Speedometer equipment including its installation	Regulation (EC) No 661/2009UNECE Regulation No 39	X	X	X	X	X	X				
18	Statutory plates	Directive 76/114/ EEC	X	X	X	X	X	X	X	X	X	X
18A	Manufacturer's statutory plate and vehicle identification number	Regulation (EC) No 661/2009Regulation (EU) No 19/2011	X	X	X	X	X	X	X	X	X	X
19	Seat belt anchorages	Directive 76/115/ EEC	X	X	X	X	X	X				
19A	Safety-belt anchorages, Isofix anchorages systems and Isofix top tether anchorages	Regulation (EC) No 661/2009UNECE Regulation No 14	X	X	X	X	X	X				
20	Installation of lighting and light signaling devices	Directive 76/756/ EEC	X	X	X	X	X	X	X	X	X	X
20A	Installation of lighting and light-signaling devices on vehicles	Regulation (EC) No 661/2009UNECE Regulation No 48	X	X	X	X	X	X	X	X	X	X
21	Retro reflectors	Directive 76/757/ EEC	X	X	X	X	X	X	X	X	X	X

21A	Retro-reflecting devices for power-driven vehicles and their trailers	Regulation (EC) No 661/2009UNECE Regulation No 3	X	X	X	X	X	X	X	X	X	X
22	End-outline, front-position (side), rear-position (side), stop, side marker, daytime running lamps	Directive 76/758/ EEC	X	X	X	X	X	X	X	X	X	X
22A	Front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009UNECE Regulation No 7	X	X	X	X	X	X	X	X	X	X
22B	Daytime running lamps for power-driven vehicles	Regulation (EC) No 661/2009UNECE Regulation No 87	X	X	X	X	X	X				
22C	Side-marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009UNECE Regulation No 91	X	X	X	X	X	X	X	X	X	X
23	Direction indicators	Directive 76/759/ EEC	X	X	X	X	X	X	X	X	X	X
23A	Direction indicators for power-driven vehicles and their trailers	Regulation (EC) No 661/2009UNECE Regulation No 6	X	X	X	X	X	X	X	X	X	X
24	Rear registration plate lamps	Directive 76/760/ EEC	X	X	X	X	X	X	X	X	X	X
24A	Illumination of rear-registration plates of power-driven vehicles and their trailers	Regulation (EC) No 661/2009UNECE Regulation No 4	X	X	X	X	X	X	X	X	X	X
25	Headlamps (including bulbs)	Directive 76/761/ EEC	X	X	X	X	X	X				

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25A	Power-driven vehicle's sealed-beam headlamps (SB) emitting an European asymmetrical passing beam or a driving beam or both	Regulation (EC) No 661/2009UNECE Regulation No 31	X	X	X	X	X	X				
25B	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers	Regulation (EC) No 661/2009UNECE Regulation No 37	X	X	X	X	X	X	X	X	X	X
25C	Motor vehicle headlamps equipped with gas-discharge light sources	Regulation (EC) No 661/2009UNECE Regulation No 98	X	X	X	X	X	X				
25D	Gas-discharge light sources for use in approved gas-discharge lamp units of power-driven vehicles	Regulation (EC) No 661/2009UNECE Regulation No 99	X	X	X	X	X	X				
25E	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules	Regulation (EC) No 661/2009UNECE Regulation No 112	X	X	X	X	X	X				
25F	Adaptive front-lighting systems (AFS) for motor vehicles	Regulation (EC) No 661/2009UNECE Regulation No 123	X	X	X	X	X	X				
26	Front fog lamps	Directive 76/762/ EEC	X	X	X	X	X	X				
26A	Power-driven vehicle front fog lamps	Regulation (EC) No 661/2009UNECE Regulation No 19	X	X	X	X	X	X				
27	Towing hooks	Directive 77/389/ EEC	X	X	X	X	X	X				

27A	Towing device	Regulation (EC) No 661/2009Regulation (EU) No 1005/2010	X	X	X	X	X	X				
28	Rear fog lamps	Directive 77/538/ EEC	X	X	X	X	X	X	X	X	X	X
28A	Rear fog lamps for power-driven vehicles and their trailers	Regulation (EC) No 661/2009UNECE Regulation No 38	X	X	X	X	X	X	X	X	X	X
29	Reversing lamps	Directive 77/539/ EEC	X	X	X	X	X	X	X	X	X	X
29A	Reversing lights for power- driven vehicles and their trailers	Regulation (EC) No 661/2009UNECE Regulation No 23	X	X	X	X	X	X	X	X	X	X
30	Parking lamps	Directive 77/540/ EEC	X	X	X	X	X	X				
30A	Parking lamps for power-driven vehicles	Regulation (EC) No 661/2009UNECE Regulation No 77	X	X	X	X	X	X				
31	Seat belts and restraint systems	Directive 77/541/ EEC	X	X	X	X	X	X				
31A	Safety-belts, restraint systems, child restraint systems and Isofix child restraint systems	Regulation (EC) No 661/2009UNECE Regulation No 16	X	X	X	X	X	X				
32	Forward vision	Directive 77/649/ EEC	X									
32A	Forward field of vision	Regulation (EC) No 661/2009UNECE Regulation No 125	X									
33	Identification of controls, tell-tales and indicators	Directive 78/316/ EEC	X	X	X	X	X	X				
33A	Location and identification of hand controls, tell-tales and indicators	Regulation (EC) No 661/2009UNECE Regulation No 121	X	X	X	X	X	X				
34	Defrost/demist	Directive 78/317/ EEC	X	(5)	(5)	(5)	(5)	(5)				

34A	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009Regulation (EU) No 672/2010	X	(5)	(5)	(5)	(5)	(5)				
35	Wash/wipe	Directive 78/318/ EEC	X	(6)	(6)	(6)	(6)	(6)				
35A	Windscreen wiper and washer systems	Regulation (EC) No 661/2009Regulation (EU) No 1008/2010	X	(6)	(6)	(6)	(6)	(6)				
36	Heating systems	Directive 2001/56/ EC	X	X	X	X	X	X	X	X	X	X
36A	Heating systems	Regulation (EC) No 661/2009UNECE Regulation No 122	X	X	X	X	X	X	X	X	X	X
37	Wheel guards	Directive 78/549/ EEC	X									
37A	Wheel guards	Regulation (EC) No 661/2009Regulation (EU) No 1009/2010	X									
38	Head restraints	Directive 78/932/ EEC	X									
38A	Head restraints (headrests), whether or not incorporated in vehicle seats	Regulation (EC) No 661/2009UNECE Regulation No 25	X									
41	Emissions (Euro IV and V)heavy duty vehicles.	Directive 2005/55/ EC	X (8)	X (8)	X	X (8)	X (8)	X				
41A	Emissions (Euro VI) heavy duty vehicles/access to information	Regulation (EC) No 595/2009	X (9)	X (9)	X	X (9)	X (9)	X				
42	Lateral protection	Directive 89/297/ EEC					X	X			X	X
42A	Lateral protection of goods vehicles	Regulation (EC) No 661/2009UNECE Regulation No 73					X	X			X	X
43	Spray-suppression systems	Directive 91/226/ EEC				X	X	X	X	X	X	X
43A	Spray suppression systems	Regulation (EC) No 661/2009Regulation (EU) No 109/2011				X	X	X	X	X	X	X
44	Masses and dimensions (cars)	Directive 92/21/EEC	X									

44A	Masses and dimensions	Regulation (EC) No 661/2009Regulation (EU) No 1230/2012	X									
45	Safety glazing	Directive 92/22/EEC	X	X	X	X	X	X	X	X	X	X
45A	Safety glazing materials and their installation on vehicles	Regulation (EC) No 661/2009UNECE Regulation No 43	X	X	X	X	X	X	X	X	X	X
46	Tyres	Directive 92/23/EEC	X	X	X	X	X	X	X	X	X	X
46A	Installation of tyres	Regulation (EC) No 661/2009Regulation (EU) No 458/2011	X	X	X	X	X	X	X	X	X	X
46B	Pneumatic tyres for motor vehicles and their trailers (Class C1)	Regulation (EC) No 661/2009UNECE Regulation No 30	X			X			X	X		
46C	Pneumatic tyres for commercial vehicles and their trailers (Classes C2 and C3)	Regulation (EC) No 661/2009UNECE Regulation No 54		X	X	X	X	X			X	X
46D	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (Classes C1, C2 and C3)	Regulation (EC) No 661/2009UNECE Regulation No 117	X	X	X	X	X	X	X	X	X	X
46E	Temporary-use spare unit, run-flat tyres/system and tyre pressure monitoring system	Regulation (EC) No 661/2009UNECE Regulation No 64	X (9A)			X (9A)						
47	Speed limitation devices	Directive 92/24/EEC		X	X		X	X				
47A	Speed limitation of vehicles	Regulation (EC) No 661/2009UNECE Regulation No 89		X	X		X	X				
48	Masses and dimensions (other than vehicles referred to in item 44)	Directive 97/27/EC		X	X	X	X	X	X	X	X	X

48A	Masses and dimensions	Regulation (EC) No 661/2009Regulation (EU) No 1230/2012		X	X	X	X	X	X	X	X	X
49	External projections of cabs	Directive 92/114/EEC				X	X	X				
49A	Commercial vehicles with regard to their external projections forward of the cab's rear panel	Regulation (EC) No 661/2009UNECE Regulation No 61				X	X	X				
50	Couplings	Directive 94/20/EC	X (10)	X (10)	X (10)	X (10)	X (10)	X (10)	X	X	X	X
50A	Mechanical coupling components of combinations of vehicles	Regulation (EC) No 661/2009UNECE Regulation No 55	X (10)	X (10)	X (10)	X (10)	X (10)	X (10)	X	X	X	X
50B	Close-coupling device (CCD); fitting of an approved type of CCD	Regulation (EC) No 661/2009UNECE Regulation No 102					X (10)	X (10)			X (10)	X (10)
51	Flammability	Directive 95/28/EC			X							
51A	Burning behaviour of materials used in the interior construction of certain categories of motor vehicles	Regulation (EC) No 661/2009UNECE Regulation No 118			X							
52	Buses and coaches	Directive 2001/85/EC		X	X							
52A	M_2 and M_3 vehicles	Regulation (EC) No 661/2009UNECE Regulation No 107		X	X							
54	Side impact	Directive 96/27/EC	X (12)			X (12)						
54A	Protection of occupants in the event of lateral collision	Regulation (EC) No 661/2009UNECE Regulation No 95	X (12)			X (12)						
55	(empty)											

56	Vehicles intended for the transport of dangerous goods	Directive 98/91/EC				X (13)	X (13)	X (13)	X (13)	X (13)	X (13)	X (13)
56A	Vehicles for the carriage of dangerous goods	Regulation (EC) No 661/2009UNECE Regulation No 105				X (13)	X (13)	X (13)	X (13)	X (13)	X (13)	X (13)
57	Front underrun protection	Front underrun protection					X	X				
57A	Front underrun protective devices (FUPDs) and their installation; front underrun protection (FUP)	Regulation (EC) No 661/2009UNECE Regulation No 93					X	X				
58	Pedestrian protection	Regulation (EC) No 78/2009	X			X						
59	Recyclability	Directive 2005/64/ EC	X			X						
60	(empty)											
61	Air-conditioning systems	Directive 2006/40/ EC	X			X (14)						
62	Hydrogen system	Regulation (EC) No 79/2009	X	X	X	X	X	X				
63	General Safety	Regulation (EC) No 661/2009	X (15)	X (15)	X (15)	X (15)	X (15)	X (15)	X (15)	X (15)	X (15)	X (15)
63.1	Gear shift indicators	Regulation (EU) No 65/2012	X									
64	Gear shift indicators	Regulation (EC) No 661/2009 Regulation (EU) No 65/2012	X									
65	Advanced emergency braking system	Regulation (EC) No 661/2009Regulation (EU) No 347/2012		X	X		X	X				
66	Lane departure warning system	Regulation (EC) No 661/2009 Regulation (EU) No 351/2012		X	X		X	X				
67	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	Regulation (EC) No 661/2009UNECE Regulation No 67	X	X	X	X	X	X				

68	Vehicle alarm systems (VAS)	Regulation (EC) No 661/2009UNECE Regulation No 97	X			X						
69	Electric safety	Regulation (EC) No 661/2009UNECE Regulation No 100	X	X	X	X	X	X				
70	Specific components for CNG and their installation on motor vehicles	Regulation (EC) No 661/2009UNECE Regulation No 100	X	X	X	X	X	X				

Explanatory notes:

X Regulatory act applicable.

Note: The series of amendments of the UNECE Regulations which apply on a compulsory basis are listed in Annex IV to Regulation (EC) No 661/2009. Series of amendments adopted subsequently are accepted as an alternative.

(1) For vehicles with a reference mass not exceeding 2 610 kg. At the manufacturer's request, may apply to vehicles with a reference mass not exceeding 2 840 kg.

(2) In case of vehicles equipped with a LPG or CNG installation, a vehicle type-approval in accordance with UNECE Regulation No 67 or UNECE Regulation No 110 is required.

(3) The fitting of an electronic stability control ("ESC") system is required in accordance with Article 12 of Regulation (EC) No 661/2009. Therefore, the requirements set out in Annex 21 to UNECE Regulation 13 shall be complied with for the purposes of EC type-approval of new types of vehicles as well as for the registration, sale and entry into service of new vehicles. The implementation dates set out in Article 13 of Regulation (EC) No 661/2009 shall apply instead of the dates set out in UNECE Regulation No 13.

(4) The fitting of an ESC system is required in accordance with Article 12 of Regulation (EC) No 661/2009. Therefore, the requirements set out in Part A of Annex 9 to UNECE Regulation No 13-H shall be complied with for the purposes of EC type-approval of new types of vehicles as well as for the registration, sale and entry into service of new vehicles. The implementation dates set out in Article 13 Regulation (EC) No 661/2009 shall apply instead of the dates set out in UNECE Regulation No 13-H.

(4A) If fitted, the protective device shall fulfil the requirements of UNECE Regulation No 18.

(4B) This Regulation applies to seats not falling within the scope of UNECE Regulation No 80.

(5) Vehicles of this category shall be fitted with a suitable windscreen defrosting and demisting device.

(6) Vehicles of this category shall be fitted with a suitable windscreen washing and wiping devices.

(8) For vehicles with a reference mass exceeding 2 610 kg and which did not benefit from the possibility offered in note (1).

(9) For vehicles with a reference mass exceeding 2 610 kg which are not type-approved (at the manufacturer's request and provided their reference mass does not exceed 2 840 kg) under Regulation (EC) No 715/2007.
For other options, see Article 2 of Regulation (EC) No 595/2009.

(9A) Applies only where such vehicles are fitted with equipment covered by UNECE Regulation No 64. Tyre pressure monitoring system for M_1 vehicles applies on a compulsory basis in accordance with Article 9(2) of Regulation (EC) No 661/2009.

(10) Applies only to vehicles equipped with coupling(s).

(11) Applies to vehicles with a technically permissible maximum laden mass not exceeding 2,5 tonnes.

(12) Only applicable to vehicles where the "Seating Reference Point ('R' point)" of the lowest seat is not more than 700 mm above the ground level. (13) Applies only when the manufacturer applies for type-approval of vehicles intended for the transport of dangerous goods.

(14) Applies only for vehicles of category N_1, class I as described in the first table in point 5.3.1.4 of Annex I to Directive 70/220/EEC.

(15) At the request of the manufacturer, a type-approval may be granted under this item, as an alternative to obtaining type-approvals under items 3A, 3B, 4A, 5A, 6A, 6B, 7A, 8A, 9A, 9B, 10A, 12A, 13A, 13B, 14A, 15A, 15B, 16A, 17A, 17B, 18A, 19A, 20A, 21A, 22A, 22B, 22C, 23A, 24A, 25A, 25B, 25C, 25D, 25E, 25F, 26A, 27A, 28A, 29A, 30A, 31A, 32A, 33A, 34A, 35A, 36A, 37A, 38A, 42A, 43A, 44A, 45A, 46A, 46B, 46C, 46D, 46E, 47A, 48A, 49A, 50A, 50B, 51A, 52A, 52B, 53A, 54A, 56A, 57A and 64 to 70.

Appendix 1
Regulatory acts for EC type-approval of vehicles produced in small series pursuant to Article 22

1. This Appendix applies to new EC type-approvals of small series granted from 1 November 2012, except for item 54A which applies from 1 November 2014.

2. EC type-approvals of small series granted before 1 November 2012 shall cease to be valid on 31 October 2016.

   National authorities shall consider certificates of conformity for vehicles to be no longer valid for the purposes of Article 26(1) of this Directive, unless the type-approvals concerned have been updated to the requirements of this Appendix.

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Table 1
M1 vehicles

Item	Subject	Regulatory act	Specific issues	Applicability and specific requirements
1	Permissible sound level	Directive 70/157/EEC		A
2	Emissions (Euro 5 and 6) light duty vehicles/access to information	Regulation (EC) No 715/2007		A
			(a) On-board diagnostic (OBD)	The vehicle shall be fitted with an OBD system that fulfills the requirements of Article 4(1) and (2) of Regulation (EC) No 692/2008 (The OBD system shall be designed to record at least the malfunction of the engine management system). The OBD-interface shall be able to communicate with commonly available diagnostic tools.
			(b) In service conformity	N/A
			(c) Access to information	It is sufficient that the manufacturer provide access to repair and maintenance information in a readily accessible and prompt manner.
			(d) Power measurement	(When the vehicle manufacturer uses an engine from another manufacturer) Bench test data from the engine manufacturer are accepted provided that the engine management system is identical (i.e. having at least the same ECU). Power output test may be performed on a chassis dynamometer. It shall be taken into account of the power loss in the transmission.'
3A	Prevention of fire risks (liquid fuel tanks)	Regulation (EC) No 661/2009 UNECE Regulation No 34	(a) Liquid fuel tanks	B
			(b) Installation in vehicle	B

3B	Rear underrun protective devices (RUPDs) and their installation; rear underrun protection (RUP)	Regulation (EC) No 661/2009 UNECE Regulation No 58		B
4A	Space for mounting and fixing rear registration plates	Regulation (EC) No 661/2009 Regulation (EU) No 1003/2010		B
5A	Steering equipment	Regulation (EC) No 661/2009 UNECE Regulation No 79		C
			(a) Mechanical systems	The provisions of paragraph 5 of UNECE Regulation No 79 shall apply. All tests prescribed in paragraph 6.2 of UNECE Regulation No 79 shall be performed and the requirements of paragraph 6.1 of UNECE Regulation No 79 shall apply.
			(b) Complex electronic vehicle control system	All the requirements of Annex 6 of UNECE Regulation No 79 shall apply. Compliance with these requirements may only be checked by an appointed technical service.
6A	Door latches and door retention components	Regulation (EC) No 661/2009 UNECE Regulation No 11		C
			(a) General requirements (Paragraph 5 of UNECE Regulation No 11)	All the requirements shall apply.
			(b) Performance requirements (Paragraph 6 of UNECE Regulation No 11)	Only the requirements of paragraph 6.1.5.4 and paragraph 6.3 on door locks shall apply.
7A	Audible warning devices and signals	Regulation (EC) No 661/2009 UNECE Regulation No 28	(a) Components	X
			(b) Installation on vehicle	B

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8A	Devices for indirect vision and their installation	Regulation (EC) No 661/2009 UNECE Regulation No 46	(a) Components	X
			(b) Installation on vehicle	B
9B	Braking	Regulation (EC) No 661/2009 UNECE Regulation No 13-H	(a) Design and tests requirements	A
			(b) Electronic stability control (ESC) and brake assist systems (BAS)	The fitting of BAS and ESC shall not be required. If fitted, they shall comply with the requirements of UNECE Regulation No 13-H.
10A	Electromagnetic compatibility	Regulation (EC) No 661/2009 UNECE Regulation No 10		B
12A	Interior fittings	Regulation (EC) No 661/2009 UNECE Regulation No 21		C
			(a) Interior arrangement	
			(i) Radii and protrusion requirements for switches, pull-knobs and the like, controls and general interior fittings	The requirements of paragraphs 5.1 to 5.6 of UNECE Regulation No 21 may be waived at the request of the manufacturer. The requirements of paragraph 5.2 of UNECE Regulation No 21 with the exception of paragraphs 5.2.3.1, 5.2.3.2 and 5.2.4 shall apply.
			(ii) Energy absorption tests on the upper dash- board	Energy absorption tests on the upper dashboard shall only be performed when the vehicle is not fitted with at least two front airbags or two static four-point harnesses.
			(iii) Energy absorption test on the rear part of the seats	N/A
			(b) Power-operation of windows, roof-panel systems and partition systems	All requirements of paragraph 5.8 UNECE Regulation No 21 shall apply.

13A	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 116		A
14A	Protection of the driver against the steering mechanism in the event of impact	Regulation (EC) No 661/2009 UNECE Regulation No 12		C
				Tests are required when the vehicle has not been tested under UNECE Regulation No 94 (see item 53A)
15A	Seats, their anchorages and any head restraints	Regulation (EC) No 661/2009 UNECE Regulation No 17		C
			(a) General requirements (i) Specifications	Requirements of paragraph 5.2 of UNECE Regulation No 17 shall apply with the exception of paragraph 5.2.3.
			(ii) Strength tests for seat backrest and head restraints	The requirements of paragraph 6.2 UNECE Regulation No 17 shall apply.
			(iii) Unlocking and adjustment tests	The test shall be performed in accordance with the requirements of Annex 7 to UNECE Regulation No 17.
			(b) Head restraints (i) Specifications	Requirements of paragraphs 5.4, 5.5, 5.6, 5.10, 5.11 and 5.12 of UNECE Regulation No 17 shall apply with the exception of paragraph 5.5.2.
			(ii) Strength tests on head restraints	The test prescribed in paragraph 6.4 shall be performed.
			(c) Special requirements regarding the protection of occupants from displaced luggage	The requirements of Annex 9 to UNECE Regulation No 26 may be waived at the request of the manufacturer.
16A	External projections	Regulation (EC) No 661/2009 UNECE Regulation No 26		C
			(a) General specifications	The requirements of paragraph 5 of UNECE Regulation No 26 shall apply.
			(b) Particular specifications	The requirements of paragraph 6 of UNECE Regulation No 26 shall apply.

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17A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012		D
17B	Speedometer equipment including its installation	Regulation (EC) No 661/2009 UNECE Regulation No 39		B
18A	Manufacturer's statutory plate and vehicle identification number	Regulation (EC) No 661/2009 Regulation (EU) No 19/2011		B
19A	Safety-belt anchorages, Isofix anchorages systems and Isofix top tether anchorages	Regulation (EC) No 661/2009 UNECE Regulation No 14		B
20A	Installation of lighting and light-signaling devices on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 48		B Daytime Running Lights (DRL) shall be fitted to a new vehicle type in accordance with Article 2 of Directive 2008/89/EC.
21A	Retro-reflecting devices for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 3		X
22A	Front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 7		X
22B	Daytime running lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 87		X

22C	Side-marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 91		X
23A	Direction indicators for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 6		X
24A	Illumination of rear-registration plates of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 4		X
25A	Power-driven vehicle's sealed-beam headlamps (SB) emitting an European asymmetrical passing beam or a driving beam or both	Regulation (EC) No 661/2009 UNECE Regulation No 31		X
25B	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 37		X
25C	Motor vehicle headlamps equipped with gas- discharge light sources	Regulation (EC) No 661/2009 UNECE Regulation No 98		X
25D	Gas-discharge light sources for use in approved gas- discharge lamp units of power- driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 99		X

B 4004

25E	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules	Regulation (EC) No 661/2009 UNECE Regulation No 112		X
25F	Adaptive front-lighting systems (AFS) for motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 123		X
26A	Power-driven vehicle front fog lamps	Regulation (EC) No 661/2009 UNECE Regulation No 19		X
27A	Towing device	Regulation (EC) No 661/2009 Regulation (EU) No 1005/2010		B
28A	Rear fog lamps for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 38		X
29A	Reversing lights for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 23		X
30A	Parking lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 77		X
31A	Safety-belts, restraint systems, child restraint systems and Isofix child restraint systems	Regulation (EC) No 661/2009 UNECE Regulation No 16	(a) Components	X
			(b) Installation requirements	B

32A	Forward field of vision	Regulation (EC) No 661/2009 UNECE Regulation No 125		A
33A	Location and identification of hand controls, tell- tales and indicators	Regulation (EC) No 661/2009 UNECE Regulation No 121		A
34A	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009 Regulation (EU) No 672/2010		C
			(a) Windscreen defrosting	Only paragraph 1.1.1 of Annex II to Regulation (EU) No 672/2010 shall apply provided that warm air flow is ducted to the whole surface of the windscreen or the latter is electrically heated on its whole surface.
			(b) Windscreen demisting	Only point 1.2.1 of Annex II to Regulation (EU) No 672/2010 shall apply provided that warm air flow is ducted to the whole surface of the windscreen or the latter is electrically heated on its whole surface.
35A	Windscreen wiper and washer systems	Regulation (EC) No 661/2009 Regulation (EU) No 1008/2010		C
			(a) Windscreen wiper system	Paragraphs 1.1 to 1.1.10 of Annex III to Regulation (EU) No 1008/2010 shall apply. Only the test described in paragraph 2.1.10 of Annex III to Regulation (EU) No 1008/2010 shall be performed.
			(b) Windscreen washer system	Section 1.2 of Annex III to Regulation (EU) No 1008/2010 shall apply with the exception of points 1.2.2, 1.2.3 and 1.2.5.

B 4006

36A	Heating system	Regulation (EC) No 661/2009 UNECE Regulation No 122		C The fitting of a heating system shall not be required.
			(a) All heating systems	The requirements of paragraph 5.3 and of paragraph 6 of UNECE Regulation No 122 shall apply.
			(b) LPG heating systems	The requirements of Annex 8 to UNECE Regulation No 122 shall apply.
37A	Wheel guards	Regulation (EC) No 661/2009 Regulation (EU) No 1009/2010		B
38A	**Head restraints**	Regulation (EC) No 661/2009 UNECE Regulation No 25		X
41	Emissions (Euro IV and V) heavy duty vehicles	Directive 2005/55/EC		A
			OBD	May be waived at the request of the vehicle manufacturer.
41A	Emissions (Euro VI) heavy duty vehicles/access to information	Regulation (EC) No 595/2009		A With the exception of the set of requirements relating to OBDs and access to information.
			Power measurement	*(When the vehicle manufacturer uses an engine from another manufacturer)* Bench test data from the engine manufacturer are accepted provided that the engine management system is identical (i.e. having at least the same ECU). Power output test may be performed on a chassis dynamometer. It shall be taken into account of the power loss in the transmission.’

44A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012		B The hill start test at maximum combination mass described in paragraph 5.1 of Part A of Annex 1 to Regulation (EU) No 1230/2012 may be waived at the request of the manufacturer.
45A	Safety glazing materials and their installation on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 43	(a) Components	X
			(b) Installation	B
46	Tyres	Directive 92/23/EEC	Components	X
46A	Installation of tyres	Regulation (EC) No 661/2009 Regulation (EU) No 458/2011		B Dates for progressive application shall be those set out in Article 13 of Regulation (EC) No 661/2009.
46B	Pneumatic tyres for motor vehicles and their trailers (Class C1)	Regulation (EC) No 661/2009 UNECE Regulation No 30	Components	X
46D	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (classes C1, C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 117	Components	X
46E	Temporary-use spare unit, run-flat tyres/system and tyre pressure monitoring system	Regulation (EC) No 661/2009 UNECE Regulation No 64	Components	X
			Fitting of a tyre-pressure monitoring system (TPMS)	B The fitting of a TPMS shall not be required.

B 4008

50A	Mechanical coupling components of combinations of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 55	(a) Components	X
			(b) Installation	B
53A	Protection of occupants in the event of a frontal collision	Regulation (EC) No 661/2009 UNECE Regulation No 94		C The requirements of UNECE Regulation No 94 shall apply to vehicles fitted with front airbags. Vehicles not fitted with airbags shall fulfill the requirement of item 14A of this table.
54A	Protection of occupants in the event of lateral collision	Regulation (EC) No 661/2009 UNECE Regulation No 95		C (shall apply from 1 November 2014)
			Head form test	The manufacturer shall supply the technicalservice with suitable information concerning a possible impact of the head of the dummy against the structure of the vehicle or the side glazing if made up of laminated glazing. When such impact is proven likely to happen, then the partial test using the head form test described in paragraph 3.1 of Annex 8 to UNECE Regulation No 95 shall be conducted and the criterion specified in paragraph 5.2.1.1 of UNECE Regulation 95 shall be met. In agreement with the technical service, the test procedure described in Annex 4 to UNECE Regulation No 21 may be used as an alternative to the test mentioned above.
58	Pedestrian protection	Regulation (EC) No 78/2009	(a) Technical requirements applicable to vehicle	N/A
			(b) Frontal protection systems	X

59	Recyclability	Directive 2005/64/EC		N/A Only Article 7 on reuse of component parts shall apply.
61	Air-conditioning systems	Directive 2006/40/EC		A Fluorinated greenhouse gases with a global warming potential higher than 150 are permitted until 31 December 2016.
62	Hydrogen system	Regulation (EC) No 79/2009		X
63	General Safety	Regulation (EC) No 661/2009		Under this item, a type-approval may be granted, at the request of the manufacturer. See footnote (15) of the table for vehicles produced in unlimited series
63.1	Gear shift indicators	(EU) No 65/2012		N/A
64	Gear shift indicators	Regulation (EC) No 661/2009 Regulation (EU) No 65/2012		N/A
67	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 67	(a) Components	X
			(b) Installation	A
68	Vehicle alarm systems (VAS)	Regulation (EC) No 661/2009 UNECE Regulation No 97	(a) Components	X
			(b) Installation	B
69	Electric safety	Regulation (EC) No 661/2009 UNECE Regulation No 100		B

B 4010

70	Specific components for CNG and their installation on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 110	(a) Components	X
			(b) Installation	A

Meaning of letters

X	Full application of the regulatory act. (a) a type-approval certificate shall be issued; (b) tests and checks shall be conducted by the technical service or the manufacturer under the conditions laid down in Articles 41, 42 and 43; (c) a test report shall be drafted in accordance with the provisions of Annex V; (d) Conformity of Production (COP) shall be ensured.
A	Application of the regulatory act as follows: (a) all requirements of the regulatory act shall be fulfilled unless otherwise stated; (b) no type-approval certificate shall be required; (c) tests and checks shall be conducted by the technical service or the manufacturer under the conditions laid down in Articles 41, 42 and 43; (d) a test report shall be drafted in accordance with the provisions of Annex V; (e) COP shall be ensured.
B	Application of the regulatory act as follows: As for letter "A" with the exception that the tests and checks may be performed by the manufacturer himself subject to the agreement of the type-approval authority (i.e. the conditions laid down in Articles 41, 42 and 43 do not have to be fulfilled).
C	Application of the regulatory act as follows: (a) only the technical requirements from the regulatory shall be fulfilled, irrespective of any transitional provision; (b) no type-approval certificate shall be required; (c) tests and checks shall be conducted by the technical service or by the manufacturer (see decisions for letter "B"); (d) a test report shall be drafted in accordance with the provisions of Annex V; (e) COP shall be ensured.
D	Same as for decisions in letters "B" and "C" with the exception that a statement of compliance submitted by the manufacturer is sufficient. No test report shall be required. The type-approval authority or technical service may require additional information of further evidence, if need be.
N/A	The regulatory act shall not apply. Compliance with one or more specific aspects included in the regulatory act may however be imposed.

Note: The series of amendments of the UNECE Regulations to be used are listed in Annex IV to Regulation (EC) No 661/2009.

Series of amendments adopted subsequently are accepted as an alternative.

Table 2
N1 vehicles (1)

Item	Subject	Regulatory act	Specific issues	Applicability and specific requirements
1	Permissible sound level	Directive 70/157/EEC		A
2	Emissions (Euro 5 and 6) light duty vehicles/ access to information	Regulation (EC) No 715/2007		A
			(a) OBD	The vehicle shall be fitted with an OBD system that fulfills the requirements of Article 4(1) and (2) of Regulation (EC) No 692/2008 (the OBD system shall be designed to record at least the malfunction of the engine management system). The OBD-interface shall be able to communicate with commonly available diagnostic tools.
			(b) In service conformity	N/A
			(c) Access to information	It is sufficient that the manufacturer provides access to repair and maintenance information in a readily accessible and prompt manner.
			(d) Power measurement	*(When the vehicle manufacturer uses an engine from another manufacturer)* Bench test data from the engine manufacturer are accepted provided that the engine management system is identical (i.e. having at least the same ECU). Power output test may be performed on a chassis dynamometer. It shall be taken into account of the power loss in the transmission.'
3A	Prevention of fire risks (liquid fuel tanks)	Regulation (EC) No 661/2009 UNECE Regulation No 34	(a) Liquid fuel tanks	B
			(b) Installation in vehicle	B

3B	Rear underrun protective devices (RUPDs) and their installation; rear underrun protection (RUP)	Regulation (EC) No 661/2009 UNECE Regulation No 58		B
4A	Space for mounting and fixing rear registration plates	Regulation (EC) No661/2009 Regulation (EU) No 1003/2010		B
5A	Steering equipment	Regulation (EC) No 661/2009 UNECE Regulation No 79		C
			(a) Mechanical systems	The provisions of paragraph 5 of UNECE Regulation No 79 shall apply. All tests prescribed in paragraph 6.2 of UNECE Regulation No 79 shall be performed and the requirements of paragraph 6.1 of UNECE Regulation No 79 shall apply.
			(b) Complex electronic vehicle control system	All the requirements of Annex 6 of UNECE Regulation No 79 shall apply. Compliance with these requirements may only be checked by an appointed technical service.
6A	Door latches and door retention components	Regulation (EC) No 661/2009 UNECE Regulation No 11		C
			(a) General requirements (Paragraph 5 of UNECE Regulation No 11)	All requirements shall apply.
			(b) Performance requirements (Paragraph 6 of UNECE Regulation No 11)	Only the requirements of paragraph 6.1.5.4 and paragraph 6.3 on door locks shall apply.
7A	Audible warning devices and signals	Regulation (EC) No661/2009 UNECE Regulation No 28	(a) Components	X
			(b) Installation on vehicle	B

8A	Devices for indirect vision and their installation	Regulation (EC) No 661/2009 UNECE Regulation No 46	(a) Components	X
			(b) Installation on vehicle	B
9A	Braking of vehicles and trailers	Regulation (EC) No 661/2009 UNECE Regulation No 13.	(a) design and test requirements	A
			(b) ESC	The fitting of ESC shall not be required. If fitted, it shall comply with the requirements of UNECE Regulation No 13.
9B	Braking of passenger cars	Regulation (EC) No661/2009 UNECE Regulation No 13-H	(a) Design and test requirements	A
			(b) Electronic stability control (ESC) and brake assist systems (BAS)	The fitting of BAS and ESC shall not be required. If fitted, they shall comply with the requirements of UNECE Regulation No 13-H.
10A	Electromagnetic compatibility	Regulation (EC) No 661/2009 UNECE Regulation No 10		B
13A	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 116		A
14A	Protection of the driver against the steering mechanism in the event of impact	Regulation (EC) No 661/2009 UNECE Regulation No 12		C
			(a) Barrier impact test	A test shall be required.
			(b) Body block impact test against steering wheel	Not required if the steering wheel is fitted with an airbag.
			(c) Head form test	Not required if the steering wheel is fitted with an airbag.
15A	Seats, their anchorages and any head restraints	Regulation (EC) No 661/2009 UNECE Regulation N 17		B

B 4014

17A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012		D
17B	Speedometer equipment including its installation	Regulation (EC) No 661/2009 UNECE Regulation No 39		B
18A	Manufacturer's statutory plate and vehicle identification number	Regulation (EC) No 661/2009 Regulation (EU) No 19/2011		B
19A	Safety-belt anchorages, Isofix anchorages systems and Isofix top tether anchorages	Regulation (EC) No 661/2009 UNECE Regulation No 14		B
20A	Installation of lighting and light- signaling devices on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 48		B DRLs shall be fitted to a new vehicle type in accordance with Article 2 of Directive 2008/89/EC.
21A	Retro-reflecting devices for power- driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 3		X
22A	Front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 7		X
22B	Daytime running lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 87		X

22C	Side-marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 91		X
23A	Direction indicators for power- driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 6		X
24A	Illumination of rear-registration plates of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 4		X
25A	Power-driven vehicle's sealed-beam headlamps (SB) emitting an European asymmetrical passing beam or a driving beam or both	Regulation (EC) No 661/2009 UNECE Regulation No 31		X
25B	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 37		X
25C	Motor vehicle headlamps equipped with gas-discharge light sources	Regulation (EC) No 661/2009 UNECE Regulation No 98		X
25D	Gas-discharge light sources for use in approved gas- discharge lamp units of power- driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 99		X

25E	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules	Regulation (EC) No 661/2009 UNECE Regulation No 112		X
25F	Adaptive front-lighting systems (AFS) for motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 123		X
26A	Power-driven vehicle front fog lamps	Regulation (EC) No 661/2009 UNECE Regulation No 19		X
27A	Towing device	Regulation (EC) No 661/2009 Regulation (EU) No 1005/2010		B
28A	Rear fog lamps for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 38		X
29A	Reversing lights for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 23		X
30A	Parking lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 77		X

31A	Safety-belts, restraint systems, child restraint systems and Isofix child restraint systems	Regulation (EC) No 661/2009 UNECE Regulation No 16	(a) Components	X
			(b) Installation requirements	B
33A	Location and identification of hand controls, tell- tales and indicators	Regulation (EC) No 661/2009 UNECE Regulation No 121		A
34A	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009 Regulation (EU) No 672/2010		N/A The vehicle shall be fitted with a suitable windscreen defrosting and demisting system.
35A	Windscreen wiper and washer systems	Regulation (EC) No 661/2009 Regulation (EU) No 1008/2010		N/A The vehicle shall be fitted with a suitable windscreen wiper and washer system.
36A	Heating system	Regulation (EC) No 661/2009 UNECE Regulation No 122		C The fitting of a heating system shall not be required.
			(a) All heating systems	The requirements of paragraph 5.3 and of paragraph 6 of UNECE Regulation No 122 shall apply.
			(b) LPG heating systems	The requirements of Annex 8 to UNECE Regulation No 122 shall apply.
38	Head restraints whether or not incorporated in vehicle seats	Regulation (EC) No 661/2009 UNECE Regulation No 25		X
41	Emissions (Euro IV and V) heavy duty vehicles	Directive 2005/55/EC		A
			OBD	Maybe waived at the request of the vehicle manufacturer.

B 4018

41A	Emissions (Euro VI) heavy duty vehicles/access to information	Regulation (EC) No 595/2009		A With the exception of the set of requirements relating to OBDs and access to information.
			Power measurement	(When the vehicle manufacturer uses an engine from another manufacturer) Bench test data from the engine manufacturer are accepted provided that the engine management system is identical (i.e. having at least the same ECU). Power output test may be performed on a chassis dynamometer. It shall be taken into account of the power loss in the transmission.
43A	Spray suppression systems	Regulation (EC) No 661/2009 Regulation (EU) No 109/2011		B
45A	Safety glazing materials and their installation on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 43	(a) Components	X
			(b) Installation	B
46	Tyres	Directive 92/23/EEC	Components	X
46A	Installation of tyres	Regulation (EC) No 661/2009 Regulation (EU) No 458/2011		B Dates for progressive application shall be those set out in Article 13 of Regulation (EC) No 661/2009.
46B	Pneumatic tyres for motor vehicles and their trailers (Class C1)	Regulation (EC) No 661/2009 UNECE Regulation No 30	Components	X

46C	Pneumatic tyres for commercial vehicles and their trailers (Classes C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 54	Components	X
46D	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (Classes C1, C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 117	Components	X
46E	Temporary-use spare unit, run-flat tyres/system and tyre pressure monitoring system	Regulation (EC) No 661/2009 UNECE Regulation No 64	Components	X
			Fitting of a tyre-pressure monitoring system	B The fitting of a TPMS shall not be required
48	Masses and dimensions	Directive 97/27/EC		B
48A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012		B
			Hill start test at maximum combination mass	The hill start test at maximum combination mass described in paragraph 5.1 of Part A of Annex 1 to Regulation (EU) No 1230/2012 may be waived at the request of the manufacturer.
49A	Commercial vehicles with regards to their external projections forward of the cab's rear panel	Regulation (EC) No 661/2009 UNECE Regulation No 61		C
			(a) General specifications	The requirements of paragraph 5 of UNECE Regulation No 61 shall apply
			(b) Particular specifications	The requirements of paragraph 6 of UNECE Regulation No 61 shall apply.
50A	Mechanical coupling components of combinations of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 55	(a) Components	X
			(b) Installation	B

54A	Protection of occupants in the event of lateral collision	Regulation (EC) No 661/2009 UNECE Regulation No 95	C	C
			Head form test	The manufacturer shall supply the technicalservice with suitable information concerning a possible impact of the head of the dummy against the structure of the vehicle or the side glazing if made up of laminated glazing. When such impact is proven likely to happen, then the partial test using the head form test described in paragraph 3.1 of Annex 8 to UNECE Regulation No 95 shall be conducted and the criterion specified in paragraph 5.2.1.1 of UNECE Regulation 95 shall be met. In agreement with the technical service, the test procedure described in Annex 4 to UNECE Regulation No 21 may be used as an alternative to the test mentioned above.
56	Vehicles for the carriage of dangerous goods	Regulation (EC) No 661/2009 UNECE Regulation No 105		A
58	Pedestrian protection	Regulation (EC) No78/2009	(a) Technical requirements applicable to a vehicle	N/A
			(b) Frontal protection systems	X
59	Recyclability	Directive 2005/64/EC		N/A Only Article 7 on reuse of component parts shall apply.
61	Air-conditioning systems	Directive 2006/40/EC		B Fluorinated greenhouse gases with a global warming potential higher than 150 are permitted until 31 December 2016.

62	Hydrogen system	Regulation (EC) No 79/2009		X
63	General Safety	Regulation (EC) No 661/2009		Under this item, a type-approval may be granted, at the request of the manufacturer. See footnote (15) of the table for vehicles produced in unlimited series
64	Gear shift indicators	Regulation (EC) No 661/2009 Regulation (EU) No 65/2012		N/A
67	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	Regulation (EC) No 661/2009UNECE Regulation No 67	(a) Components	X
			(b) Installation	A
68	Vehicle alarm systems (VAS)	Regulation (EC) No 661/2009 UNECE Regulation No 97	(a) Components	X
			(b) Installation	B
69	Electric safety	Regulation (EC) No 661/2009 UNECE Regulation No 100		B
70	Specific components for CNG and their installation on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 110	(a) Components	X
			(b) Installation	A

B 4022

PART II

Where reference is made to a separate directive or regulation, an approval issued under the following UNECE Regulations (taking account of the scope (1), and the amendment to each of the UNECE Regulations listed below) shall be recognised as an alternative to an EC type-approval granted under the relevant separate directive or regulation in the table of Part I.

These UNECE Regulations are the ones to which the Community has adhered as a Contracting Party to the United Nations Economic Commission for Europe 'Revised 1958 Geneva Agreement' by virtue of Council Decision 97/836/EC, or subsequent Council decisions as referred to in Article 3(3) of that Decision.

Any further amendment of the UNECE Regulations listed below has also to be deemed to be equivalent, subject to the Community decision as referred to in Article 4(2) of Decision 97/836/EC (++).

	Subject	Basic UNECE Regulation Number	Series of amendments
1	Sound levels	51	02
1	Replacement silencing systems	59	00
2	Emissions	83	03
2	Replacement catalytic converters	103	00
3	Rear protective device	58	01
3	Fuel tanks	34	01
3	Fuel tanks	67	01
3	Fuel tanks	110	00
5	Steering effort	79	01
6	Door latches and hinges	11	02
7	Audible warning	28	00
8	Rear view mirrors	46	01
8A	Devices for indirect vision	46	02
9	Braking	13	09
9	Braking	13H	00
9	Braking (lining)	90	01
10	Radio suppression	10	02
11	Diesel smoke	24	03
12	Interior fittings	21	01
13	Anti-theft	18	02
13	Immobiliser	97	00
13	Alarm systems	97	00
13	Unauthorised use	116	00
14	Behaviour of steering device under impact	12	03
15	Seat strength	17	06
15	Seat strength (buses and coaches)	80	01
16	Exterior projections	26	02
17	Speedometer	39	00
19	Seat belt anchorages	14	04
20	Installation of lighting and light signalling devices	48	01
21	Retro reflectors	3	02

22	End-outline/front-position (side)/rear-position (side)/stop lamps	7	02
22	Daytime running lamps	87	00
22	Side marker lamps	91	00
23	Direction indicators	6	01
24	Rear registration plate lamp	4	00
25	Headlamps (R_2 and HS_1)	1	
25	Headlamps (sealed beam)	5	02
25	Headlamps (H_1, H_2, H_3, HB_3, HB_4, H_7, and/or H_8)	8	04
25	Headlamps (H_4)	20	
25	Headlamps (halogen sealed beam)	31	02
25	Filament lamps for use in approved lamp units	37	03
25	Headlamps with gas-discharge light sources	98	00
25	Gas-discharge light sources for use in approved gas-discharge lamp units	99	00
26	Front fog lamps	19	02
28	Rear fog lamps	38	00
29	Reversing lamps	23	00
30	Parking lamps	77	00
31	Seat belts and restraint systems	16	04
31	Child restraints	44	03
38	Head restraints (combined with seats)	17	06
38	Head restraints	25	04
39	Fuel consumption	101	00
40	Engine power	85	00
41	Diesel emission	49	02
42	Lateral protection	73	00
45	Safety glass	43	00
46	Tyres, motor vehicles and their trailers	30	02
46	Tyres, commercial vehicles and their trailers	54	00
46	Temporary-use spare wheels/tyres	64	00
46	Rolling sound	117	00
47	Speed limiters	89	00
50	Couplings	55	01
51	Flammability	118	00
52	Strength of superstructure (buses)	66	00
53	Frontal impact	94	01
54	Side impact	95	02
55	Front underrun protection	93	00

([1]) Where the separate directive or regulation contains installation requirements, these apply also to components and separate technical units approved in accordance with the UNECE Regulations.

([++]) For subsequent amendments, see UNECE TRANS/WP.29/343 in its latest revision.

SCHEDULE V

[Regulations 9(1)(b), 32(4) and 33(2)]

Procedures to be followed during EC type-approval of vehicles

0. Objectives and scope

0.1. This Schedule establishes the procedures for the proper operation of the vehicle type-approval in accordance with the provisions of Article 9.

0.2. It also includes:

(a) the list of international standards which are of relevance for the designation of the technical services in accordance with Article 41;

(b) the description of the procedure to be followed for the assessment of the skills of technical services in accordance with Article 42;

(c) the general requirements for the drafting of test reports by technical services.

1. Type-approval process

When receiving an application for vehicle type-approval, the approval authority shall:

(a) verify that all EC type-approval certificates issued pursuant to the regulatory acts which are applicable for vehicle type-approval cover the vehicle type and correspond to the prescribed requirements;

(b) by reference to the documentation make sure that the vehicle specifications and data contained in Part I of the vehicle information document are included in the data in the information packages and in the EC type-approval certificates in respect of the relevant regulatory acts;

(c) when an item number in Part I of the information document is not included in the information package of any of the regulatory acts, confirm that the relevant part or characteristic conforms to the particulars in the information folder;

(d) on a selected sample of vehicles from the type to be approved carry out or arrange to be carried out inspections of vehicle parts and systems to verify that the vehicle(s) is/are built in accordance with the relevant data contained in the authenticated information package in respect of the relevant EC type-approval certificates;

(e) carry out or arrange to be carried out relevant installation checks in respect of separate technical units where applicable;

(f) carry out or arrange to be carried out necessary checks in respect of the presence of the devices provided for in footnotes (1) and (2) of Part I of Schedule IV where applicable;

(g) carry out or arrange to be carried out necessary checks in order to ensure that the requirements provided for in footnote (5) of Part I of Schedule IV are fulfilled.

2. Combination of technical specifications

The number of vehicles to be submitted shall be sufficient to permit the proper check of the various combinations to be type-approved according to the following criteria:

Technical specification	Vehicle category									
	M_1	M_2	M_3	N_1	N_2	N_3	O_1	O_2	O_3	O_4
Engine	X	X	X	X	X	X	-	-	-	-
Gear box	X	X	X	X	X	X	-	-	-	-
Number of axles	-	X	X	X	X	X	X	X	X	X

Powered axles (number, position, interconnection)	X	X	X	X	X	X	-	-	-	-
Steered axles (number and position)	X	X	X	X	X	X	X	X	X	X
Body styles	X	X	X	X	X	X	X	X	X	X
Number of doors	X	X	X	X	X	X	X	X	X	X
Hand of drive	X	X	X	X	X	X	-	-	-	-
Number of seats	X	X	X	X	X	X	-	-	-	-
Level of equipment	X	X	X	X	X	X	-	-	-	-

3. Specific provisions

Where no approval certificates for any of the relevant regulatory acts are available, the approval authority shall:

(a) arrange for the necessary tests and checks as required by each of the relevant regulatory acts;

(b) verify that the vehicle conforms to the particulars in the vehicle information folder and that it meets the technical requirements of each of the relevant regulatory acts;

(c) carry out or arrange to be carried out relevant installation checks in respect of separate technical units where applicable;

(d) carry out or arrange to be carried out necessary checks in respect of the presence of the devices provided for in footnotes (1) and (2) of Part I of Schedule IV where applicable;

(e) carry out or arrange to be carried out necessary checks in order to ensure that the requirements provided for in footnote (5) of Part I of Schedule IV are fulfilled.

Appendix 1

Standards with which the entities referred to in regulation 32 have to comply

1. Activities related to testing for type-approval, to be carried out in accordance with the regulatory acts listed in Schedule IV:

1.1. Category A (tests performed in own facilities):

EN ISO/IEC 17025: 2005 on the general requirements for the competence of testing and calibration laboratories.

A technical service designated for category A activities may carry out or supervise the tests provided for in the regulatory acts for which it has been designated, in the facilities of a manufacturer or of a third party.

1.2. Category B (supervising of tests performed in the manufacturer's facilities or in the facilities of a third party:

EN ISO/IEC 17020: 2004 on the general criteria for the operation of various types of bodies performing inspection.

Before performing or supervising any test in the facilities of a manufacturer or of a third party, the technical service shall check that the tests facilities and measurement devices comply with the appropriate requirements of the standard referred to in paragraph 1.1.

2. Activities related to Conformity of Production

2.1. Category C (procedure for the Initial Assessment and surveillance audits of the manufacturer's quality management system):

EN ISO/IEC 17021: 2006 on the general requirements for bodies providing audit and certification of management systems.

2.2. Category D (inspection or testing of production samples or supervision thereof):

EN ISO/IEC 17020: 2004 on the general criteria for the operation of various types of bodies performing inspection.

Appendix 2

Procedure for the assessment of the technical services

1. PURPOSE OF THIS APPENDIX

This Appendix establishes the conditions according to which the assessment procedure of the technical services should be conducted by the competent authority referred to in regulation 33.

These requirements shall apply mutatis mutandis to all technical services, irrespective of their legal status (independent organization, manufacturer or approval authority acting as technical service).

2. PRINCIPLES OF ASSESSING

Assessing is characterised by reliance on a number of principles:

- independence which is the basis for the impartiality and objectivity of the conclusions,
- an evidence-based approach which guarantees reliable and reproducible conclusions.

Auditors must show trust and integrity. They shall respect confidentiality and discretion. They must report truthfully and accurately findings and conclusions.

3. SKILLS REQUIRED OF THE AUDITORS

3.1. The assessments may only be conducted by auditors having the technical and administrative knowledge necessary for such purposes.

3.2. The auditors must have been trained specifically for assessment activities. In addition, they must have the specific knowledge of the technical area in which the technical service will exercise its activities.

3.3. Without prejudice to the provisions of paragraphs 3.1. and 3.2., the assessment referred to in regulation 33(4) shall be conducted by auditors independent of the activities for which the assessment is conducted.

4. APPLICATION FOR DESIGNATION

4.1. A duly authorised representative of the applicant technical service shall make a formal application to the competent authority that includes the following:

(a) general features of the technical service, including corporate entity, name, addresses, legal status and human and technical resources;

(b) a detailed description including curriculum vitae of the personnel in charge of testing and of the managerial staff as evidenced by the skills both educational and professional;

(c) in addition to the above, technical services which use virtual testing methods shall provide evidence of their ability to work in a Computer-Aided-x environment;

(d) general information concerning the technical service such as its activities, its relationship in a larger corporate entity if any, and addresses of all its physical location(s) to be covered by the scope of designation;

(e) an agreement to fulfil the requirements for designation and the other obligations of the technical service as applicable in the relevant directives;

(f) a description of the conformity assessment services that the technical service undertakes in the framework of the applicable regulatory acts and a list of the

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regulatory acts for which the technical service applies for designation, including limits of capability where applicable;

(g) a copy of the quality manual of the technical service.

4.2. The competent authority shall review for adequacy the information supplied by the technical service.

5. RESOURCE REVIEW

The competent authority shall review its ability to carry out the assessment of the technical service, in terms of its own policy, its competence and the availability of suitable auditors and experts.

6. SUBCONTRACTING THE ASSESSMENT

6.1. The competent authority may subcontract parts of the assessment to another designation authority or ask for support from technical experts provided by other competent authorities. The subcontractors and experts have to be accepted by the applicant technical service.

6.2. The competent authority must take into account accreditation certificates with adequate scope in order to complete its global assessment of the technical service.

7. PREPARATION FOR ASSESSMENT

7.1. The competent authority must formally appoint an assessment team. The former shall ensure that the expertise brought to each assignment is appropriate. In particular, the team as a whole:

(a) shall have appropriate knowledge of the specific scope for which designation is sought, and

(b) shall have understanding sufficient to make a reliable assessment of the competence of the technical service to operate within its scope of designation.

7.2. The competent authority shall clearly define the assignment given to the assessment team. The task of the assessment team is to review the documents collected from the applicant technical service and to conduct the on-site assessment.

7.3. The competent authority shall agree, together with the technical service and the assigned assessment team, to the date and schedule for the assessment. However, it remains the responsibility of the competent authority to pursue a date that is in accordance with the surveillance and reassessment plan.

7.4. The competent authority shall ensure that the assessment team is provided with the appropriate criteria documents, previous assessment records, and the relevant documents and records of the technical service.

8. ON-SITE ASSESSMENT

The assessment team shall conduct the assessment of the technical service at the premises of the technical service from which one or more key activities are performed and, where relevant, shall perform witnessing at other selected locations where the technical service operates.

9. ANALYSIS OF FINDINGS AND ASSESSMENT REPORT

9.1. The assessment team shall analyse all relevant information and evidence gathered during the document and record review and the on-site assessment. This analysis shall be sufficient to allow the team to determine the extent of competence and conformity of the technical service with the requirements for designation.

9.2. The competent authority’s reporting procedures shall ensure that the following requirements are fulfilled.

9.2.1. A meeting shall take place between the assessment team and the technical service prior to leaving the site. At this meeting, the assessment team shall provide a written and/or oral report on its findings obtained from the analysis. An opportunity shall be provided for the

technical service to ask questions about the findings, including non-conformities, if any, and their basis.

9.2.2. A written report on the outcome of the assessment shall be promptly brought to the attention of the technical service. This assessment report shall contain comments on competence and conformity, and shall identify non-conformities, if any, to be resolved in order to conform to all of the requirements for designation.

9.2.3. The technical service shall be invited to respond to the assessment report and to describe the specific actions taken or planned to be taken, within a defined time, to resolve any identified non-conformities.

9.3. The competent authority shall ensure that the responses of the technical service to resolve non-conformities are reviewed to see if the actions appear to be sufficient and effective. If the technical service responses are found not to be sufficient, further information shall be requested. Additionally, evidence of effective implementation of actions taken may be requested, or a follow-up assessment may be carried out to verify effective implementation of corrective actions.

9.4. The assessment report shall include, as a minimum, the following:

(a) unique identification of the technical service;

(b) date(s) of the on-site assessment;

(c) name(s) of the auditors(s) and/or experts involved in the assessment;

(d) unique identification of all premises assessed;

(e) proposed scope of designation that was assessed;

(f) a statement on the adequacy of the internal organisation and procedures adopted by the technical service to give confidence in its competence, as determined through its fulfilment of the requirements for designation;

(g) information on the resolution of all non-conformities;

(h) a recommendation of whether the applicant should be designated or confirmed as technical service and, if so, the scope of designation.

10. GRANTING/CONFIRMING A DESIGNATION

10.1. The approval authority shall, without undue delay, make the decision on whether to grant, confirm or extend designation on the basis of the report(s) and any other relevant information.

10.2. The approval authority shall provide a certificate to the technical service. This certificate shall identify the following:

(a) the identity and logo of the approval authority;

(b) the unique identity of the designated technical service;

(c) the effective date of granting of designation and the expiry date;

(d) a brief indication of or a reference to the scope of designation (applicable directives, regulations or part of them);

(e) a statement of conformity and a reference to the Directive.

11. REASSESSMENT AND SURVEILLANCE

11.1. Reassessment is similar to an initial assessment except that experience gained during previous assessments shall be taken into account. Surveillance on-site assessments are less comprehensive than reassessments.

11.2. The competent authority shall design its plan for reassessment and surveillance of each designated technical service so that representative samples of the scope of designation are assessed on a regular basis.

The interval between on-site assessments, whether reassessment or surveillance, depends on the proven stability that the technical service has reached.

11.3. When, during surveillance or reassessments, non-conformities are identified, the competent authority shall define strict time limits for corrective actions to be implemented.

11.4. When the corrective or improvement actions have not been taken within the agreed timeframe or are not deemed to be sufficient, the competent authority must adopt appropriate measures, such as conducting a further assessment, suspending/withdrawing the designation for one or more of the activities for which the technical service has been designated.

11.5. When the competent authority decides to suspend or withdraw the designation of a technical service, it shall inform the latter by registered mail. In any case, the competent authority shall adopt all the necessary measures to ensure the continuity of the activities already undertaken by the technical service.

12. RECORDS ON DESIGNATED TECHNICAL SERVICES

12.1. The competent authority shall maintain records on technical services to demonstrate that requirements for designation, including competence, have been effectively fulfilled.

12.2. The competent authority shall keep the records on technical services secure to ensure confidentiality.

12.3. Records on technical services shall include at least the following:

(a) relevant correspondence;

(b) assessment records and reports;

(c) copies of designation certificates.

Appendix 3

General requirements concerning the format of the test reports

1. For each of the regulatory acts listed in Part I of Schedule IV, the test report shall comply with the provisions of Standard EN ISO/IEC 17025:2005. In particular it shall include the information mentioned in point 5.10.2, including footnote (1) of that Standard.

2. The template of the test reports shall be laid down by the approval authority in accordance with its rules of good practice.

3. The test report shall be drafted in the official language of the Community determined by the approval authority.

4. Moreover it shall include at least the following information:

(a) the identification of the vehicle, component or separate technical unit tested;

(b) a detailed description of the vehicle, component or separate technical unit characteristics in connection with the regulatory act;

(c) the results of the measurements specified in the relevant regulatory acts and, when required, the limits or thresholds which are to be met;

(d) in regard to each measurement mentioned in paragraph (c) the relevant decision: passed or failed;

(e) a detailed statement of compliance with the various provisions which are to be met, i.e. such provisions for which it is not required to make measurements.

Example from Section 3.2.2 of Annex I to Council Directive 76/114/EEC (1):

"Check that the vehicle identification number is placed in such a way that it cannot be obliterated or deteriorate";

the report shall include a statement such as: "the place of stamping the vehicle identification number fulfils the requirements of Section 3.2.2 of Schedule I";

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(f) when test methods other than those prescribed in the regulatory acts are permitted the report shall include a description of the test method used for performing the test.

The same applies when alternative provisions in the regulatory acts may be used;

(g) pictures taken during testing, the number of which shall be decided by the approval authority.

In the case of virtual testing, screen prints or other suitable evidence may replace pictures;

(h) conclusions drawn up;

(i) when opinions and interpretations have been made, they shall be documented properly and marked as such in the test report.

5. When the tests are conducted on a vehicle, component or technical unit that combines a number of most unfavourable features with regard to the required level of performance to be achieved (i.e. the worst-case), the test report shall include a reference stating how the selection has been made by the manufacturer in agreement with the approval authority.

SCHEDULE VI

[Regulation 9(7)]

MODEL A

Maximum format: A4 (210 × 297 mm)

EC TYPE-APPROVAL CERTIFICATE

Stamp of EC type- approval authority

Communication concerning:	Of a type of:
EC type-approval ([1]) extension	complete vehicle ([1])
of EC type-approval ([1]) refusal	completed vehicle ([1])
of EC type-approval ([1]) withdrawal	incomplete vehicle ([1])
of EC type-approval ([1])	vehicle with complete and incomplete variants ([1])
	vehicle with completed and incomplete variants ([1])

with regard to Directive 2007/46/EC EC type-approval number:

Reason for extension:

SECTION I

0.1. Make (trade name of manufacturer):

0.2. Type:

0.2.1. Commercial name(s) ([2]):

0.3. Means of identification of type, if marked on the vehicle:

0.3.1. Location of that marking:

0.4. Category of vehicle ([3]):

0.5. Company name and address of manufacturer of the complete/completed vehicle ([1])

0.5.1. For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle

0.8. Name(s) and address(es) of assembly plant(s):

0.9. Name and address of the manufacturer's representative (if any):

([1]) Delete where not applicable.

([2]) If not available at the time of granting the type-approval, this item shall be completed at the latest when the vehicle is introduced on the market.

([3]) As defined in Schedule II.A.

([4]) See side 2.

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SECTION II

The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle(s) described above ((a) sample(s) having been selected by the EC type-approval authority and submitted by the manufacturer as prototype(s) of the vehicle type) and that the attached test results are applicable to the vehicle type.

1. For complete and completed vehicles/variants ([1]):

The vehicle type meets/does not meet (1) the technical requirements of all the relevant regulatory acts as prescribed in Schedule IV and Annex XI ([1]) ([2]) to the Directive.

2. For incomplete vehicles/variants ([1]):

The vehicle type meets/does not meet ([1]) the technical requirements of the regulatory acts listed in the table on side 2.

3. The approval is granted/refused/withdrawn ([1]).

4. The approval is granted in accordance with regulation 20 and the validity of the approval is thus limited to dd/mm/yy.

(Place) (Signature) (Date)

Attachments: Information package.

Test results (see Schedule VIII).

Name(s) and specimen(s) of the signature(s) of the person(s) authorised to sign certificates of conformity and a statement of their position in the company.

NB: If this model is used for type-approval pursuant to regulations 20, 22 or 23, it may not bear the heading 'EC Vehicle Type-Approval Certificate', except:

- in the case mentioned in regulation 20 where the Commission has decided to allow a Member State to grant a type-approval in accordance with the Directive,

- in the case of vehicles of the category M1, type-approved according to the procedure prescribed in regulation 21.

([1]) Delete where not applicable.

([2]) See side 2.

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EC VEHICLE TYPE-APPROVAL CERTIFICATE

Side 2

This EC type-approval is, where incomplete and completed vehicles or variants are concerned, based on the approval(s) for incomplete vehicles listed below:

Stage 1: Manufacturer of the base vehicle:

EC type-approval number:

Dated:

Applicable to variants:

Stage 2: Manufacturer:

EC type-approval number:

Dated:

Applicable to variants:

Stage 3: Manufacturer:

EC type-approval number:

Dated:

Applicable to variants:

In the case where the approval includes one or more incomplete variants, list those variants which are complete or completed.

Complete/completed variant(s):

List of requirements applicable to the approved incomplete vehicle type or variant (as appropriate, taking account of the scope and latest amendment to each of the regulatory acts listed below).

Item	Subject	Regulatory act reference	Last amended	Applicable to variants

(List only subjects for which a EC type-approval exists.)

In the case of special purpose vehicles, exemptions granted or special provisions applied pursuant to Schedule XI and exemptions granted pursuant to regulation 20:

Regulatory act reference	Item number	Kind of approval and nature of exemption	Applicable to variants

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Appendix

List of regulatory acts to which the type of vehicle complies
(to be filled in only in the case of type-approval in accordance with regulation 6(3))

	Subject	Regulatory act reference (1)	As amended by	Applicable to versions
1.	Permissible sound level	Directive 70/157/EEC		
2.	Emissions	Directive 70/220/EEC		
3.	Fuel tanks/Rear protective devices	Directive 70/221/EEC		
4.	Rear registration plate space	Directive 70/222/EEC		
5.	Steering effort	Directive 70/311/EEC		
6.	Door latches and hinges	Directive 70/387/EEC		
7.	Audible warning	Directive 70/388/EEC		
8.	Rear visibility	Directive 71/127/EEC		
8a.	Indirect vision devices	Directive 2003/97/EC		
9.	Braking	Directive 71/320/EEC		
10.	Radiointerference(electromagnetic compatibility)	Directive 72/245/EEC		
11.	Diesel smoke	Directive 72/306/EEC		
12.	Interior fittings	Directive 74/60/EEC		
13.	Anti-theft and immobiliser	Directive 74/61/EEC		
14.	Protective steering	Directive 74/297/EEC		
15.	Seat strength	Directive 74/408/EEC		
16.	Exterior projections	Directive 74/483/EEC		
17.	Speedometer and reverse gear	Directive 75/443/EEC		
18.	Plates (statutory)	Directive 76/114/EEC		
19.	Seat-belt anchorages	Directive 76/115/EEC		
20.	Installation of lighting and light signalling devices	Directive 76/756/EEC		
21.	Retro reflectors	Directive 76/757/EEC		

22.	End-outline, front-position (side), rear-position (side), stop, side marker, daytime running lamps	Directive 76/758/EEC		
23.	Direction indicators	Directive 76/759/EEC		
24.	Rear registration plate lamps	Directive 76/760/EEC		
25.	Headlamps (including bulbs)	Directive 76/761/EEC		
26.	Front fog lamps	Directive 76/762/EEC		
27.	Towing hooks	Directive 77/389/EEC		
28.	Rear fog lamps	Directive 77/538/EEC		
29.	Reversing lamps	Directive 77/539/EEC		
30.	Parking lamps	Directive 77/540/EEC		
31.	Seat-belts and restraint systems	Directive 77/541/EEC		
32.	Forward vision	Directive 77/649/EEC		
33.	Identification of controls, tell-tales and indicators	Directive 78/316/EEC		
34.	Defrost/demist	Directive 78/317/EEC		
35.	Wash/wipe	Directive 78/318/EEC		
36.	Heating systems	Directive 2001/56/EC		
37.	Wheel guards	Directive 78/549/EEC		
38.	Head restraints	Directive 78/932/EEC		
39.	CO_2 emissions/Fuel consumption	Directive 80/1268/EEC		
41a.	Emissions (Euro VI) heavy duty vehicles/access to information	Regulation (EC) No 595/2009		
42.	Lateral protection	Directive 89/297/EEC		
43.	Spray-suppression systems	Directive 91/226/EEC		
44.	Masses and dimensions (cars)	Directive 92/21/EEC		
45.	Safety glazing	Directive 92/22/EEC		
46.	Tyres	Directive 92/23/EEC		

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47.	Speed limitation devices	Directive 92/24/EEC		
48.	Masses and dimensions (other than vehicles referred to in item 44)	Directive 97/27/EC		
49.	External projections of cabs	Directive 92/114/EEC		
50.	Couplings	Directive 94/20/EC		
51.	Flammability	Directive 95/28/EC		
52.	Buses and coaches	Directive 2001/85/EC		
53.	Frontal impact	Directive 96/79/EC		
54.	Side impact	Directive 96/27/EC		
56.	Vehicles intended for the transport of dangerous goods	Directive 98/91/EC		
57.	Front under-run protection	Directive 2000/40/EC		
58.	Pedestrian protection	Regulation (EC) No 78/2009		
59.	Recyclability	Directive 2005/64/EC		
61.	Air-conditioning systems	Directive 2006/40/EC		
62.	Hydrogen system	Regulation (EC) No 79/2009		
63.	General safety	Regulation (EC) No 661/2009		
63.1	Gear shift indicators	(EU) No 65/ 2012		

([1]) Or UNECE Regulations that are considered to be equivalent.

MODEL B

(to be used for system type-approval or vehicle type-approval with regard to a system)

Maximum format: A4 (210 × 297 mm)

EC TYPE-APPROVAL CERTIFICATE

Stamp of EC type- approval authority

Communication concerning:

EC type-approval ([1])

extension of EC type-approval ([1]) a type of system/type of a vehicle with regard to a system ([1])

refusal of EC type-approval ([1])

withdrawal of of EC type-approval ([1])

with regard to Directive ...../...../EC/Regulation (EC) No ...../..... ([1]), as last amended by Directive ...../...../EC/Regulation (EC) No ...../..... ([1])

EC type-approval number:

Reason for extension:

SECTION I

0.1. Make (trade name of manufacturer):

0.2. Type:

0.2.1. Commercial name(s) (if available):

0.3. Means of identification of type, if marked on the vehicle ([2]):

0.3.1. Location of that marking:

0.4. Category of vehicle ([3]):

0.5. Name and address of manufacturer :

0.8. Name(s) and address(es) of assembly plant(s):

0.9. Representative of the manufacturer:

([1]) Delete where not applicable.

([2]) If the means of identification of type contains characters not relevant to describe the vehicle, component or separate technical unit types covered by this information document, such characters shall be represented in the documentation by the symbol '?' (e.g. ABC??123??).

([3]) As defined in Schedule II.A.

B 4038

SECTION II

1. Additional information (where applicable): see Addendum

2. Technical service responsible for carrying out the tests:

3. Date of test report:

4. Number of test report:

5. Remarks (if any): see Addendum

6. Place:

7. Date:

8. Signature:

Attachments: Information package.

Test report.

Addendum to EC type-approval certificate No …

1. Additional information

1.1. […]:

1.1.1. […]:

[…]

2. Type-approval number of each component or separate technical unit installed on the vehicle type to comply with these regulations or the Directive

2.1. […]:

3. Remarks

3.1. […]:

B 4039

MODEL C

(to be used for component/separate technical unit type-approval)

Maximum format: A4 (210 × 297 mm)

EC TYPE-APPROVAL CERTIFICATE

Stamp of EC type- approval authority

Communication concerning:

EC type-approval ([1])

extension of EC type-approval ([1]) of a type of component/separate technical unit ([1])

refusal of EC type-approval ([1])

withdrawal of EC type-approval ([1])

with regard to Directive ...../...../EC/Regulation (EC) No ...../..... ([1]), as last amended by Directive ...../...../EC/Regulation (EC) No ...../..... ([1])

EC type-approval number:

Reason for extension:

SECTION I

0.1. Make (trade name of manufacturer):

0.2. Type:

0.3. Means of identification of type, if marked on the component/separate technical unit ([1]) ([2]):

0.3.1. Location of that marking:

0.5. Name and address of manufacturer:

0.7. In the case of components and separate technical units, location and method of affixing of the EC approval mark:

0.8. Name(s) and address(es) of assembly plant(s):

0.9. Name and address of the manufacturer's representative (if any):

---

(1) Delete where not applicable.

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SECTION II

1. Additional information (where applicable): see Addendum

2. Technical service responsible for carrying out the tests:

3. Date of test report:

4. Number of test report:

5. Remarks (if any): see Addendum

6. Place:

7. Date:

8. Signature:

Attachments: Information package.

Test report.

Addendum
to EC type-approval certificate No .....

1. Additional information

1.1. […]:

1.1.1. […]:

[…]

2. Restriction of use of the device (if any)

2.1. […]:

3. Remarks

3.1. […]:

([1]) Delete where not applicable.

([2]) If the means of identification of type contains characters not relevant to describe the vehicle, component or separate technical unit types covered by this information document, such characters shall be represented in the documentation by the symbol '?' (e.g. ABC??123??).

SCHEDULE VII

[Regulations 8(4), 19(3) and 21(3)]

EC TYPE-APPROVAL CERTIFICATE NUMBERING SYSTEM (1)

1. The EC type-approval number shall consist of four sections for whole vehicle type-approvals and five sections for system, component, and separate technical unit type-approvals as detailed below. In all cases, the sections shall be separated by the '*' character.

Section 1: The lower case letter 'e' followed by the distinguishing number of the Member State issuing the EC type-approval:

1	for Germany;	19	for Romania;
2	for France;	20	for Poland;
3	for Italy;	21	for Portugal;
4	for the Netherlands;	23	for Greece;
5	for Sweden;	24	for Ireland;
6	for Belgium;	25	for Croatia
7	for Hungary;	26	for Slovenia;
8	for the Czech Republic;	27	for Slovakia;
9	for Spain;	29	for Estonia;
11	for the United Kingdom;	32	for Latvia;
12	for Austria;	34	for Bulgaria;
13	for Luxembourg;	36	for Lithuania;
17	for Finland;	49	for Cyprus;
18	for Denmark;	50	for Malta.

Section 2: The number of the base directive or regulation.

Section 3: The number of the latest amending directive or regulation including implementing acts applicable to the type-approval.

- in the case of whole vehicle type-approvals, this means the latest directive or regulation amending an Article (or Articles) of Directive 2007/46/EC;
- in the case of whole vehicle type-approvals granted in accordance with the procedure described in Article 22 of Directive 2007/46/EC, this means the latest directive or regulation amending an Article (or Articles) of Directive 2007/46/EC, except that the two first digits (e.g. 20) are replaced by the letters KS in block capitals;
- this means the latest directive or regulation containing the actual provisions with which the system, component or technical unit conforms;
- should a directive or regulation including their implementing acts contain different technical prescriptions to be applied from specific dates, Section 3 shall be followed with an alphabetical character to clearly identify against which technical prescriptions the approval

was granted. When different vehicle categories are concerned, the character may also refer to a specific vehicle category.

Section 4: A four-digit sequential number (with leading zeros as applicable) for EC Whole vehicle type-approvals, or four or five digits for type-approval pursuant to a separate directive or regulation to denote the base type-approval number. The sequence shall start from 0001 for each base directive or regulation.

Section 5: A two-digit sequential number (with leading zeros if applicable) to denote the extension. The sequence shall start from 00 for each base approval number.

2. In the case of a type-approval for a whole vehicle, Section 2 shall be omitted.

However, in the case of a national type-approval granted for vehicles produced in small series pursuant Article 23 of the Directive, Section 3 shall be replaced by the letters NKS in block capitals.

3. On the vehicle's statutory plate(s) only, Section 5 shall be omitted.

4. Layouts of the type-approved numbers

4.1 Example of the third system approval (with as yet no extension) issued by France

(a) to Directive 71/320/EEC:

e2*71/320*2002/2078*00003*00;

(b) to Dirtective 2005/55/EC:

e2*2005/2055*51 D*00003*00 - in the case of a directive or regulation with different technical prescriptions (see section 3)

4.2. Example of the second extension to the fourth vehicle type-approval issued by the United Kingdom:

e11*2007/2046*0004*02

4.3. Example of a whole vehicle type-approval granted to a vehicle produced in small series issued by Luxembourg, pursuant to Article 22 of the Directive:

e13*KS07/46*0001*00

4.4. Example of a national type-approval granted to a vehicle produced in small series issued by the Netherlands, pursuant to Article 23 of the Directive:

e4*NKS*0001*00

4.5. Example of the type-approval number to be stamped on the vehicle's statutory plate(s):

e11*2007/2046*0004

5. Schedule VII does not apply to UNECE Regulations listed in Schedule IV. Type-approvals granted in accordance with UNECE Regulations shall continue to use the appropriate numbering provided for in the respective regulations.

([1]) Components and separate technical units shall be marked in accordance with the provisions of the relevant regulatory acts.

Appendix

EC component and separate technical unit type-approval mark

1. The EC component and separate technical unit type-approval mark shall consist of:

1.1. A rectangle surrounding the lower-case letter ‘e’ followed by the distinguishing letter(s) or number of the Member State which has granted the EC component or separate technical unit type-approval:

1	for Germany	19	for Romania
2	for France	20	for Poland
3	for Italy	21	for Portugal
4	for the Netherlands	23	for Greece
5	for Sweden	24	for Ireland
6	for Belgium	25	for Croatia
7	for Hungary	26	for Slovenia
8	for the Czech Republic	27	for Slovakia
9	for Spain	29	for Estonia
11	for the United Kingdom	32	for Latvia
12	for Austria	34	for Bulgaria
13	for Luxembourg	36	for Lithuania
17	for Finland	49	for Cyprus
18	for Denmark	50	for Malta

1.2. In the vicinity of the rectangle the ‘base approval number’ contained in Section 4 of the type-approval number preceded by the two figures indicating the sequence number assigned to the latest major technical amendment to the relevant separate directive or regulation.

1.3. An additional symbol or symbols located above the rectangle, enabling certain characteristics to be identified. This further information is specified in the relevant separate directives or regulations.

2. The component or separate technical unit type-approval mark is affixed to the separate technical unit or component in such a way as to be indelible and clearly legible.

3. An example of a component or separate technical unit type-approval mark is contained in the Addendum.

Addendum to Appendix 1

Example of a component or separate technical unit type-approval mark

Legend: the above component type-approval was issued by Belgium under number 0004.01 is a sequential number denoting the level of technical requirements to which this component fulfils. The sequential number is attributed in accordance with the relevant separate directive or regulation.

NB: The additional symbols are not shown on this example.

SCHEDULE VIII

[Regulation 9(3)(a)]

TEST RESULTS

(To be completed by the type-approval authority and attached to the vehicle EC type-approval certificate)

In each case, the information must make clear to which variant and version it is applicable. One version may not have more than one result. However, a combination of several results per version indicating the worst case is permissible. In the latter case, a note shall state that for items marked (*) only worst case results are given.

1. Results of the sound level tests

Number of the base regulatory act and latest amending regulatory act applicable to the approval. In case of a regulatory act with two or more implementation stages, indicate also the implementation stage:

Variant/Version:	…	…	…
Moving (dB(A)/E):	…	…	…
Stationary (dB(A)/E):	…	…	…
at (min– 1):	…	…	…

2. Results of the exhaust emission tests

2.1. Emissions from motor vehicles tested under the test procedure for light-duty vehicles

Indicate the latest amending regulatory act applicable to the approval. In case the regulatory act has two or more implementation stages, indicate also the implementation stage:

Fuel(s) ([a]) …… (diesel, petrol, LPG, NG, Bi-fuel: petrol/NG, LPG, Flex-fuel: petrol/ethanol, NG/H2NG…)

2.1.1. Type 1 test ([b]) ([c]) (vehicle emissions in the test cycle after a cold start)

Variant/Version:	…	…	…
CO (mg/km)	…	…	…
THC (mg/km)	…	…	…
NMHC (mg/km)	…	…	…
NOx (mg/km)	…	…	…
THC + NOx (mg/km)	…	…	…
Mass of particulate matter (PM) (mg/km)	…	…	…
Number of particles (P) (#/km) ([1])	…	…	…

2.1.2. Type 2 test ([b]) ([c]) (emissions data required at type-approval for road worthiness purposes) Type 2, low idle test:

Variant/Version:	…	…	…
CO (% vol.)	…	…	…
Engine speed (min⁻1)	…	…	…
Engine oil temperature (K)	…	…	…

Type 2, high idle test:

Variant/Version:	…	…	…
CO (% vol.)	…	…	…
Lambda Value	…	…	…
Engine speed (min⁻1)	…	…	…
Engine oil temperature (K)	…	…	…

2.1.3. Type 3 test (emissions of crankcase gases):

2.1.4. Type 4 test (evaporative emissions): g/test

2.1.5. Type 5 test (durability of anti-pollution control devices):

— Ageing distance covered (km)(e.g. 160 000 km):

— Deterioration factor DF: calculated/fixed (2)

— Values:

Variant/Version:	…	…	…
CO	…	…	…
THC	…	…	…
NMHC	…	…	…
NOx	…	…	…
THC + NOx	…	…	…
Mass of particulate matter (PM)	…	…	…
Number of particles (P) (1)	…	…	…

2.1.6. Type 6 test (average emissions at low ambient temperatures):

Variant/Version:	…	…	…
CO (g/km)	…	…	…
THC (g/km)	…	…	…

2.1.7. OBD: yes/no (2)

2.2. Emissions from engines tested under the test procedure for heavy-duty vehicles.

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Indicate the latest amending regulatory act applicable to the approval. In case the regulatory act has two or more implementation stages, indicate also the implementation stage:… Fuel(s) ([a]) … (diesel, petrol, LPG, NG, ethanol …)

2.2.1. Results of the ESC test ([1]) ([e]) ([f])

Variant/Version:	…	…	…
CO (mg/kWh)	…	…	…
THC (mg/kWh)	…	…	…
NOx (mg/kWh)	…	…	…
NH3 (ppm) ([1])	…	…	…
PM mass (mg/kWh)	…	…	…
PM number (#/kWh) ([1])	…	…	…

2.2.2. Result of the ELR test ([1])

Variant/Version:	…	…	…
Smoke value: m– 1	…	…	…

2.2.3. Result of the ETC test ([e]) ([f])

Variant/Version:	…	…	…
CO (mg/kWh)	…	…	…
THC (mg/kWh)	…	…	…
NMHC (mg/kWh) ([1])	…	…	…
CH4 (mg/kWh) ([1])	…	…	…
NOx (mg/kWh)	…	…	…
NH3 (ppm) ([1])	…	…	…
PM mass (mg/kWh)	…	…	…
PM number (#/kWh) ([1])	…	…	…

2.2.4. Idle test ([1])

Variant/Version:	…	…	…
CO (% vol.)	…	…	…
Lambda Value ([1])	…	…	…
Engine speed (min– 1)	…	…	…
Engine oil temperature (°C)	…	…	…

2.3. Diesel smoke

Indicate the latest amending regulatory act applicable to the approval. In case the regulatory act has two or more implementation stages, indicate also the implementation stage:

2.3.1. Results of the test under free acceleration

Variant/Version:	…	…	…
Corrected value of the absorption coefficient (m^{-1})	…	…	…
Normal engine idling speed	…	…	…
Maximum engine speed	…	…	…
Oil temperature (min./max.)	…	…	…

3. Results of the CO_2 emission, fuel/electric energy consumption, and electric range tests

Number of the base regulatory act and the latest amending regulatory act applicable to the approval:

3.1. Internal combustion engines, including not externally chargeable hybrid electric vehicles (NOVC) ([1]) ([d])

Variant/Version:	…	…	…
CO_2 mass emission (urban conditions) (g/km)	…	…	…
CO_2 mass emission (extra-urban conditions) (g/km)	…	…	…
CO_2 mass emission (combined) (g/km)	…	…	…
Fuel consumption(urban conditions) (l/100 km) ([g])	…	…	…
Fuel consumption (extra-urban conditions) (l/100 km) ([g])	…	…	…
Fuel consumption (combined) (l/100 km) ([g])	…	…	…

3.2. Externally chargeable hybrid electric vehicles (OVC) ([1])

Variant/Version:	…	…	…
CO_2 mass emission (Condition A, combined) (g/km)	…	…	…
CO_2 mass emission (Condition B, combined) (g/km)	…	…	…

CO_2 mass emission (weighted, combined) (g/km)	…	…	…
Fuel consumption (Condition A, combined) (l/100 km) ([g])	…	…	…

Fuel consumption (Condition B, combined) (l/100 km) ([g])	…	…	…
Fuel consumption (weighted, combined) (l/100 km) ([g])	…	…	…
Electric energy consumption (Condition A, combined) (Wh/km)	…	…	…
Electric energy consumption (Condition B, combined) (Wh/km)	…	…	…
Electric energy consumption (weighted and combined) (Wh/km)	…	…	…
Pure electric range (km)	…	…	…

3.3. Pure electric vehicles ([1])

Variant/Version:	…	…	…
Electric energy consumption (Wh/km)	…	…	…
Range (km)	…	…	…

3.4. Hydrogen fuel cell vehicles ([1])

Variant/Version:	…	…	…
Fuel consumption (kg/100 km)	…	…	…

4. Results of the tests for vehicles fitted with eco-innovation(s) ([h]1) ([h]2) ([h]3)

Variant/Version ...							
Decision approving the eco-innovation (h4)	Code of the eco-innovation ((h5)	1. CO_2 emissions of the baseline vehicle (g/km)	2. CO_2 emissions of the eco-innovation vehicle (g/km)	3. CO_2 emissions of the baseline vehicle under Type 1 test cycle([h]6)	4. CO_2 emissions of the eco-innovation vehicle under Type 1 test-cycle (=3.5.1.3)	5. Usage factor (UF) i.e temporal share of technology useage in normal operation conditions	CO_2 emissions savings ((1-2)-(3-))*5
xxxx/201x	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…
Total CO_2 emissions savings (g/km) ([h]7)							…

4.1. General code of the eco-innovation(s) ([h]8)

Explanatory notes

([1]) If applicable.

([2]) Delete where not applicable.

([a]) When restrictions for the fuel are applicable, indicate these restrictions (e.g. for natural gas the L range or the H range).

([b]) For bi fuel vehicles, the table shall be repeated for both fuels.

([c]) For flex fuel vehicles, when the test is to be performed on both fuels, according to Figure I.2.4 of Annex I to Regulation (EC) No 692/2008, and for vehicles running on LPG or NG/Biomethane, either bi-fuel or mono-fuel, the table shall be repeated for the different reference gases used in the test, and an additional table shall display the worst results obtained. When applicable, in accordance with sections 1.1.2.4 and 1.1.2.5 of Annex I to Regulation (EC) No 692/2008, it shall be shown if the results are measured or calculated.

([d]) Repeat the table for each reference fuel tested.

([e]) For Euro VI, ESC shall be understood as WHSC and ETC as WHTC.

([f]) For Euro VI, if CNG and LPG fuelled engines are tested on different reference fuels, the table shall be reproduced for each reference fuel tested.

([g]) The unit "l/100 km" is replaced by "m3/100 km" for vehicles fuelled with NG and H2NG, and by "kg/100 km" for vehicles fuelled with hydrogen. ([h]) Eco-innovations.

([h]1) Repeat the table for each Variant/Version.

([h]2) Repeat the table for each reference fuel tested.

([h]3) Expand the table if necessary, using one extra row per eco-innovation.

([h]4) Number of the Commission Decision approving the eco-innovation.

([h]5) Assigned in the Commission Decision approving the eco-innovation.

([h]6) If a modelling methodology is applied instead of the type 1 test cycle, this value shall be the one provided by the modelling methodology.

([h]7) Sum of the CO_2 emissions savings of each individual eco-innovation.

([h]8) The general code of the eco-innovation(s) shall consist of the following elements each separated by a blank space:

— Code of the approval authority as set out in Annex VII;

— Individual code of each eco-innovation fitted in the vehicle, indicated in chronological order of the Commission approval decisions.

E.g. the general code of three eco-innovations approved chronologically as 10, 15 and 16 and fitted to a vehicle certified by the German type approval authority should be: "e1 10 15 16".).

SCHEDULE IX

[Regulations 3, 18(5) and (6)]

EC CERTIFICATE OF CONFORMITY

0. OBJECTIVES

The certificate of conformity is a statement delivered by the vehicle manufacturer to the buyer in order to assure him that the vehicle he has acquired complies with the legislation in force in the European Union at the time it was produced.

The certificate of conformity also serves the purpose to enable the competent authorities of the Member States to register vehicles without having to require the applicant to supply additional technical documentation.

For these purposes, the certificate of conformity has to include:

(a) the Vehicle Identification Number;

(b) the exact technical characteristics of the vehicle (i.e. it is not permitted to mention any range of value in the various entries).

1. GENERAL DESCRIPTION

1.1. The certificate of conformity shall consist of two parts.

(a) SIDE 1, which consists of a statement of compliance by the manufacturer. The same template is common to all vehicle categories.

(b) SIDE 2, which is a technical description of the main characteristics of the vehicle. The template of side 2 is adapted to each specific vehicle category.

1.2. The certificate of conformity shall be established

1.3. Without prejudice to the provisions in Section O([b]), the values and units indicated in the second part shall be those given in the type-approval documentation of the relevant regulatory acts. In case of conformity of production checks the values shall be verified according to the methods laid down in the relevant regulatory acts. The tolerances allowed in those regulatory acts shall be taken into account.

2. SPECIAL PROVISIONS

2.1. Model A of the certificate of conformity (complete vehicle) shall cover vehicles which can be used on the road without requiring any further stage for their approval.

2.2. Model B of the certificate of conformity (completed vehicles) shall cover vehicles which have undergone a further stage for their approval.

This is the normal result of the multi-stage approval process (e.g. a bus built by a second stage manufacturer on a chassis built by a vehicle manufacturer).

The additional features added during the multi-stage process shall be described briefly.

2.3. Model C of the certificate of conformity (incomplete vehicles) shall cover vehicles which need a further stage for their approval (e.g. truck chassis).

Except for tractors for semi-trailers, certificates of conformity covering chassis-cab vehicles belonging to category N shall be of Model C.

PART I

COMPLETE AND COMPLETED VEHICLES

MODEL A1 — SIDE 1

COMPLETE VEHICLES

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned [..... (*Full* name and position)]

hereby certifies that the vehicle:

0.1. Make (Trade name of manufacturer): .....

0.2. Type: .....

Variant ([a]): .....

Version ([a]): .....

0.2.1. Commercial name: .....

0.4. Vehicle category: .....

0.5. Company name and address of manufacturer: .....

0.6. Location and method of attachment of the statutory plates: .....

Location of the vehicle identification number: .....

0.9. Name and address of the manufacturer's representative (if any): .....

0.10. Vehicle identification number: ..... conforms in all respects to the type described in approval (..... *type-approval number* including extension number) issued on (..... *date* of issue) and can be permanently registered in Member States having right/left ([b]) hand traffic and using metric/imperial ([c]) units for the speedometer ([d])([d]).

(Place) (Date): ..... (Signature): .....

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MODEL A2 — SIDE 1
COMPLETE VEHICLES TYPE-APPROVED IN SMALL SERIES

[Year]	[Sequential number]

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned [….. (*Full* name and position)] hereby certifies that the vehicle:

0.1. Make (Trade name of manufacturer): .....

0.2. Type: .....

Variant ([a]): .....

Version ([a]): .....

0.2.1. Commercial name: .....

0.4. Vehicle category: .....

0.5. Company name and address of manufacturer: .....

0.6. Location and method of attachment of the statutory plates: .....

Location of the vehicle identification number: .....

0.9. Name and address of the manufacturer's representative (if any): .....

0.10. Vehicle identification number: ..... conforms in all respects to the type described in approval (… *type-approval number* including extension number) issued on (..... *date* of issue) and can be permanently registered in Member States having right/left ([b]) hand traffic and using metric/imperial ([c]) units for the speedometer ([d]).

(Place) (Date): ..... (Signature): .....

MODEL B — SIDE 1

COMPLETED VEHICLES

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned […..... (*Full name and positio*n)] hereby certifies that the vehicle:

0.1. Make (Trade name of the manufacturer): .....

0.2. Type: .....

Variant ([a]): .....

Version ([a]): .....

0.2.1. Commercial name: .....

0.2.2. For multi-stage approved vehicles, type-approval information of the base/previous stages vehicle (list the information for each stage):

Type: .....

Variant ([a]): .....

Version ([a]): .....

Type-approval number, including extension number .....

0.4. Vehicle category: .....

0.5. Company name and address of manufacturer:

.....

0.5.1. For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle

.....

0.6. Location and method of attachment of the statutory plates: .....

Location of the vehicle identification number: .....

0.9. Name and address of the manufacturer's representative (if any): .....

0.10. Vehicle identification number: .....

(a) has been completed and altered ([1]) as follows: ..... and

(b) conforms in all respects to the type described in approval (..... *type-approval number including extension numbe*r) issued on (…..... *date* of issue) and

([c]) can be permanently registered in Member States having right/left (b) hand traffic and using metric/imperial ([c]) units for the speedometer ([d]).

(Place) (Date): …..... (Signature) .....

Attachments: Certificate of conformity delivered at each previous stage.

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SIDE 2

VEHICLE CATEGORY M1

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: ... mm 2-3: ... mm 3-4: ... mm

5. Length: ..... mm

6. Width: ..... mm

7. Height: ..... mm

Masses

13. Mass in running order: ..... kg

13.2. Actual mass of the vehicle: ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ... kg 2. ... kg 3. ... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static vertical mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30. Axle(s) track: 1. ..... mm 2. ..... mm 3. ..... mm

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

Bodywork

38. Code for bodywork ([i]): .....

40. Colour of vehicle ([j]): .....

41. Number and configuration of doors: .....

42. Number of seating positions (including the driver) ([k]): .....

42.1. Seat(s) designated for use only when the vehicle is stationary: .....

42.3. Number of wheelchair user accessible position: .....

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([l]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1.test procedure: Type I or ESC ([1])

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)1

1.2 test procedure: Type I (Euro 5 or 6(1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): …

Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

49. CO_2 emissions/fuel consumption/electric energy consumption ([m]):

1. all power train except pure electric vehicles

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	CO_2	Fuel
Urban conditions:	..... g/	..... l/100
Extra-urban	..... g/	..... l/100
Combined:	..... g/	..... l/100
Weighted,	..... g/	..... l/100 km

2. pure electric vehicles and OVC hybrid electric vehicles

Electric energy consumption (weighted, combined ([1])) ..... Wh/km

Electric range..... km

3. Vehicle fitted with eco-innovation(s): yes/no ([1])

3.1. General code of the eco-innovation(s) ([p1]): ……

3.2. Total CO_2 emissions savings due to the eco-innovation(s) ([p2]) (repeat for each reference fuel tested): ……

Miscellaneous

51. For special purpose vehicles: designation in accordance with Annex II Section 5: .....

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORY M2

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

2. Steered axles (number, position): .....

3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: ... mm 2-3: .... mm 3-4: ... mm

5. Length: ..... mm

5. Length: ..... mm

6. Width: ..... mm

7. Height: ..... mm

9. Distance between the front end of the vehicle and the centre of the coupling device: ..... mm

12. Rear overhang: ..... mm

Masses

13. Mass in running order: ..... kg

13.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

13.2. Actual mass of the vehicle: ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg 2. ..... kg3. ..... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

17. Intended registration/in service maximum permissible masses in national/ international traffic ([1]) ([o])

17.1. Intended registration/inservice maximum permissible laden mass: ..... kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. ..... kg 2. ..... kg 3. ..... kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg

17.4. Intended registration/in service maximum permissible mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/DUAL-FUEL ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

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Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30. Axle(s) track: 1. ..... mm 2. ..... mm 3. ..... mm

33. Drive axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

37. Pressure in feed line for trailer braking system: ..... bar

Bodywork

38. Code for bodywork ([i]): .....

39. Class of vehicle: class I/Class II/Class III/Class A/Class B ([1])

41. Number and configuration of doors: .....

42. Number of seating positions (including the driver) ([k]): .....

42.1. Seat(s) designated for use only when the vehicle is stationary: .....

42.3. Number of wheelchair user accessible position: .....

43. Number of standing places: .....

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45.1. Characteristics values ([1]): D: .../ V: .../ S: .../ U: ...

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([l]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1. test procedure: Type I or ESC (1)

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2. test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

Miscellaneous

51. For special purpose vehicles: designation in accordance with Annex II Section 5: .....

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORY M3

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

2. Steered axles (number, position): .....

3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: ..... mm 2-3: ..... mm 3-4: ..... mm

5. Length: ..... mm

6. Width: ..... mm

7. Height: ..... mm

9. Distance between the front end of the vehicle and the centre of the coupling device: ..... mm

12. Rear overhang: ..... mm

Masses

13. Mass in running order: ..... kg

13.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

13.2. Actual mass of the vehicle: ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

17. Intended registration/in service maximum permissible masses in national/ international traffic ([1]) ([o])

17.1. Intended registration/in service maximum permissible laden mass: ..... kg

17.2. Intended registration/in service maximum permissible laden mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg

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17.4. Intended registration/in service maximum permissible mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/ Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30.1. Track of each steered axle: ..... mm

30.2. Track of all other axles: ..... mm

32. Position of loadable axle(s): .....

33. Drive axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

37. Pressure in feed line for trailer braking system: ..... bar

Bodywork

38. Code for bodywork ([i]): .....

39. Class of vehicle: class I/Class II/Class III/Class A/Class B ([1])

41. Number and configuration of doors: .....

42. Number of seating positions (including the driver) ([k]): .....

42.1. Seat(s) designated for use only when the vehicle is stationary: .....

42.2. Number of passenger seating positions: ..... (lower deck) ..... (upper deck) (including the driver)

42.3. Number of wheelchair user accessible position: .....

43. Number of standing places: .....

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45.1. Characteristics values ([1]): D: ...../ V: ...../ S: ...../ U: .....

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([l]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1.test procedure: ESC

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2.test procedure: WHSC (EURO VI)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1.test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2.test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

Miscellaneous

51. For special purpose vehicles: designation in accordance with Annex II Section 5: .....

52. Remarks ([n]): .....

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SIDE 2

VEHICLE CATEGORY N_1

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

3. Vehicle fitted with eco-innovation(s): yes/no (1)

3.1. General code of the eco-innovation(s) (p1):

3.2. Total CO2 emissions saving due to the eco-innovation(s) (p2) (repeat for each reference fuel tested):

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: ..... mm 2-3: ..... mm 3-4: ..... mm

5. Length: ..... mm

6. Width: ..... mm

7. Height: ..... mm

8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): ..... mm

9. Distance between the front end of the vehicle and the centre of the coupling device: ..... mm

11. Length of the loading area: ..... mm

Masses

13. Mass in running order: ..... kg

13.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

13.2. Actual mass of the vehicle: ..... kg

14. Mass of the base vehicle in running order: ..... kg ([1])([q])

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.2. Semi-trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30. Axle(s) track: 1. ..... mm 2. ..... mm3. ..... mm

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

37. Pressure in feed line for trailer braking system: ..... bar

Bodywork

38. Code for bodywork ([i]): .....

40. Colour of vehicle ([j]): .....

41. Number and configuration of doors: .....

42. Number of seating positions (including the driver) ([k]): .....

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45.1. Characteristics values ([1]): D: ...../ V: ...../ S: ...../ U: .....

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([l]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1. test procedure: Type I or ESC (1)

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CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2. test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

49. CO_2 emissions/fuel consumption/electric energy consumption ([m]):

1. all power train except pure electric vehicles

	CO_2 emissions	Fuel consumption
Urban conditions:	..... g/	..... l/100 km/m3/100 km
Extra-urban conditions:	..... g/	..... l/100 km/m3/100 km
Combined:	..... g/	..... l/100 km/m3/100 km
Weighted, combined	..... g/	..... l/100 km

2. pure electric vehicles and OVC hybrid electric vehicles

Electric energy consumption (weighted, combined ([1])) ..... Wh/km

Electric range..... km

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): ..... /no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: .....

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORY N2

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

2. Steered axles (number, position): .....

3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: .... mm 2-3: ..... mm 3-4: ..... mm

5. Length: ..... mm

6. Width: ..... mm

8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): ..... mm

9. Distance between the front end of the vehicle and the centre of the coupling device: ..... mm

11. Length of the loading area: ..... mm

12. Rear overhang: ..... mm

Masses

13. Mass in running order: ..... kg

13.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

13.2. Actual mass of the vehicle: ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

17. Intended registration/in service maximum permissible masses in national/ international traffic ([1]) ([o])

17.1. Intended registration/inservice maximum permissible laden mass: ..... kg

17.2. Intended registration/in service maximum permissible laden mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg

17.4. Intended registration/in service maximum permissible mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.2. Semi-trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

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26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual fuel ([1])

26.2. Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B (1)

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

31. Position of lift axle(s): .....

32. Position of loadable axle(s): .....

33. Drive axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

37. Pressure in feed line for trailer braking system: ..... bar

Bodywork

38. Code for bodywork ([i]): .....

41. Number and configuration of doors: .....

42. Number of seating positions (including the driver) ([k]): .....

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45.1. Characteristics values ([1]): D: .../ V: .../ S: .../ U: ...

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([l]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1test procedure: Type I or ESC (1)

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): ..... /no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: .....

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORY N3

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

2. Steered axles (number, position): .....

3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: .... mm 2-3: ..... mm 3-4: ..... mm

5. Length: ..... mm

6. Width: ..... mm

8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): ..... mm

9. Distance between the front end of the vehicle and the centre of the coupling device: ..... mm

11. Length of the loading area: ..... mm

12. Rear overhang: ..... mm

Masses

13. Mass in running order: ..... kg

13.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg

3. ..... kg etc.

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13.2. Actual mass of the vehicle: ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg 2. .....kg 3. ..... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

17. Intended registration/in service maximum permissible masses in national/ international traffic ([1])([o])

17.1. Intended registration/in service maximum permissible laden mass: ..... kg

17.2. Intended registration/in service maximum permissible laden mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg

17.4. Intended registration/in service maximum permissible mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.2. Semi-trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

31. Position of lift axle(s): .....

32. Position of loadable axle(s): .....

33. Drive axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

37. Pressure in feed line for trailer braking system: ..... bar

Bodywork

38. Code for bodywork ([i]): .....

41. Number and configuration of doors: .....

42. Number of seating positions (including the driver) ([k]): .....

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45.1. Characteristics values ([1]): D: ..../ V: .../ S: ..../ U: .....

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([l]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1. test procedure: Type I or ESC (1)

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2. test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): ..... /no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: .....

52. Remarks ([n]): .....

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SIDE 2

VEHICLE CATEGORIES O1 AND O2

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: .... mm 2-3: ..... mm 3-4: ..... mm

5. Length: ..... mm

6. Width: ..... mm

7. Height: ..... mm

10. Distance between the centre of the coupling device and the rear end of the vehicle: ..... mm

11. Length of the loading area: ..... mm

12. Rear overhang: ..... mm

Masses

13. Mass in running order: ..... kg

13.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

13.2. Actual mass of the vehicle: ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg 2. .....kg 3. ..... kg etc.

19. Technically permissible maximum static mass on the coupling point of a semi-trailer or centre-axle trailer: ..... kg

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30.1. Track of each steered axle: ..... mm

30.2. Track of all other axles: ..... mm

31. Position of lift axle(s): .....

32. Position of loadable axle(s): .....

34. Axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

Bodywork

38. Code for bodywork ([i]): .....

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45.1. Characteristics values ([1]): D: ...../ V: ...../ S: ...../ U: .....

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): ..... /no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: .....

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORIES O3 AND O4

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

2. Steered axles (number, position): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: .... mm 2-3: ..... mm 3-4: ..... mm

5. Length: ..... mm

6. Width: ..... mm

7. Height: ..... mm

10. Distance between the centre of the coupling device and the rear end of the vehicle: ..... mm

11. Length of the loading area: ..... mm

12. Rear overhang: ..... mm

Masses

13. Mass in running order: ..... kg

13.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

13.2 Actual mass of the vehicle: .....kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg etc.

17. Intended registration/in service maximum permissible masses in national/ international traffic ([1]) ([o])

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17.1. Intended registration/in service maximum permissible laden mass: ..... kg

17.2. Intended registration/in service maximum permissible laden mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg

19. Technically permissible maximum static mass on the coupling point of a semi-trailer or centre-axle trailer: ..... kg

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

31. Position of lift axle(s): .....

32. Position of loadable axle(s): .....

34. Axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

Bodywork

38. Code for bodywork ([i]): .....

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45.1. Characteristics values ([1]): D: ...../ V: ...../ S: ...../ U: .....

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): ..... /no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: .....

52. Remarks ([n]): .....

PART II

INCOMPLETE VEHICLES

MODEL C1 — SIDE 1

INCOMPLETE VEHICLES

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned [..... (*Full name and position*)] hereby certifies that the vehicle:

0.1. Make (Trade name of manufacturer): .....

0.2. Type: .....

Variant ([a]): .....

Version ([a]): .....

0.2.1. Commercial name: .....

0.2.2. For multi-stage approved vehicles, type-approval information of the base/previous stages vehicle (list the information for each stage):

Type: .....

Variant (a):.....

Version (a):.....

Type-approval number, extension number.....

0.4. Vehicle category: .....

0.5. Company name and address of manufacturer: .....

0.5.1. For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle'

0.6. Location and method of attachment of the statutory plates: .....

Location of the vehicle identification number: .....

0.9. Name and address of the manufacturer's representative (if any): .....

0.10. Vehicle identification number: ..... conforms in all respects to the type described in approval (..... *t*ype-approval *number* including extension number) issued on (..... *date* of issue) and cannot be permanently registered without further approvals.

(Place) .....(Date): ..... (Signature): .....

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MODEL C2 — SIDE 1

INCOMPLETE VEHICLES TYPE-APPROVED IN SMALL SERIES

[Year]	[Sequential number]

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned [..... (*Full* name and position)] hereby certifies that the vehicle:

0.1. Make (Trade name of manufacturer): .....

0.2. Type: .....

Variant ([a]): .....

Version ([a]): .....

0.2.1. Commercial name: .....

0.4. Vehicle category: .....

0.5. Company name and address of manufacturer: .....

0.6. Location and method of attachment of the statutory plates: .....

Location of the vehicle identification number: .....

0.9. Name and address of the manufacturer's representative (if any): .....

0.10. Vehicle identification number: ..... conforms in all respects to the type described in approval (..... *type-approval number* including extension number) issued on (..... *date* of issue) and cannot be permanently registered without further approvals.

(Place) ……(Date): ..... (Signature): .....

SIDE 2

VEHICLE CATEGORY M1

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: .... mm 2-3: ..... mm 3-4: ..... mm

5.1. Maximum permissible length: ..... mm

6.1. Maximum permissible width: ..... mm

7.1. Maximum permissible height: ..... mm

12.1. Maximum permissible rear overhang: ..... mm

Masses

14. Actual mass of the vehicle of the incomplete vehicle: ..... kg

14.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg

3. ..... kg

15. Minimum mass of the vehicle when completed: ..... kg

15.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg
3. ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg
3. ..... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static vertical mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30. Axle(s) track: 1. ..... mm 2. ..... mm 3. ..... mm

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

Bodywork

41. Number and configuration of doors: .....

42. Number of seating positions (including the driver) ([k]): .....

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Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([1]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1. test procedure: Type I or ESC (1)

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2. test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

49. cO_2 emissions/fuel consumption/electric energy consumption ([m]):

1. all power train except pure electric vehicles

	CO_2	Fuel
Urban conditions:	..... g/	.....
Extra-urban	..... g/	.....
Combined:	..... g/	.....
Weighted, combined	..... g/	.....

2. pure electric vehicles and OVC hybrid electric vehicles

Electric energy consumption (weighted, combined ([1])) ..... Wh/km

Electric range..... km

Miscellaneous

52. Remarks ([n]): .....

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SIDE 2
VEHICLE CATEGORY M2
(incomplete vehicles)

***Side* 2 General construction characteristics**

1. Number of axles: ..... and wheels: .....
1.1. Number and position of axles with twin wheels: .....
2. Steered axles (number, position): .....
3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase (°): ..... mm
4.1. Axle spacing: 1-2: ..... mm 2-3: ..... mm 3-4: ..... mm
5.1. Maximum permissible length: ..... mm
6.1. Maximum permissible width: ..... mm
7.1. Maximum permissible height: ..... mm
12.1. Maximum permissible rear overhang: ..... mm

Masses

14. Mass in running order of the incomplete vehicle: ..... kg
14.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.
14.2 Actual mass of the incomplete vehicle: .....kg
15. Minimum mass of the vehicle when completed: ..... kg
15.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg
16. Technically permissible maximum masses
16.1. Technically permissible maximum laden mass: ..... kg
16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.
16.3. Technically permissible mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg etc.
16.4. Technically permissible maximum mass of the combination: ..... kg
17. Intended registration/in service maximum permissible masses in national/ international traffic ([1]) ([o])
17.1. Intended registration/in service maximum permissible laden mass: ..... kg
17.2. Intended registration/in service maximum permissible laden mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg
17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg
17.4. Intended registration/in service maximum permissible mass of the combination: ..... kg
18. Technically permissible maximum towable mass in case of:
18.1. Drawbar trailer: ..... kg
18.3. Centre-axle trailer: ..... kg
18.4. Unbraked trailer: ..... kg

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19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....
21. Engine code as marked on the engine: .....
22. Working principle: .....
23. Pure electric: yes/no ([1])
23.1. Hybrid [electric] vehicle: yes/no ([1])
24. Number and arrangement of cylinders: .....
25. Engine capacity: ..... cm^3
26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])
26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])
26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])
27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30. Axle(s) track: 1. ..... mm 2. ..... mm 3. ..... mm
33. Drive axle(s) fitted with air suspension or equivalent: yes/no ([1])
35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])
37. Pressure in feed line for trailer braking system: ..... bar

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....
45. Type or classes of coupling devices which can be fitted: .....
45.1. Characteristics values ([1]): D: ..../ V: .../ S: ..../ U: .....

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([1]): Euro .....
48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1. test procedure: Type I or ESC (1)

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2. test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

Miscellaneous

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORY M_3

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

2. Steered axles (number, position): .....

3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase ([c]): ..... mm

4.1. Axle spacing: 1-2: ..... mm 2-3: ..... mm 3-4: ..... mm

5.1. Maximum permissible length: ..... mm

6.1. Maximum permissible width: ..... mm

7.1. Maximum permissible height: ..... mm

12.1. Maximum permissible rear overhang: ..... mm

Masses

14. Mass in running order of the incomplete vehicle: ..... kg

14.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

14.2 Actual mass of the incomplete vehicle: .....kg

15. Minimum mass of the vehicle when completed: ..... kg

15.1. Distribution of this mass amongst the axles: 1. ..... kg . ..... kg

3. ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg etc.

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16.4. Technically permissible maximum mass of the combination: ..... kg

17. Intended registration/in service maximum permissible masses in national/ international traffic ([1]) ([o])

17.1. Intended registration/in service maximum permissible laden mass: ..... kg

17.2. Intended registration/in service maximum permissible laden mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg

17.4. Intended registration/in service maximum permissible mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30.1. Track of each steered axle: ..... mm

30.2. Track of all other axles: ..... mm

32. Position of loadable axle(s): .....

33. Drive axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

37. Pressure in feed line for trailer braking system: ..... bar

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45. Types or classes of coupling devices which can be fitted: .....

45.1. Characteristics values ([1]): D: ..... / V: ..... / S: ..... / U: .....

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([l]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1. test procedure: Type I or ESC (1)

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2. test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

Miscellaneous

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORY N1

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

3. Vehicle fitted with eco-innovation(s): yes/no (1)

3.1. General code of the eco-innovation(s) (p1):

3.2. Total CO2 emissions saving due to the eco-innovation(s) (p2) (repeat for each reference fuel tested):

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing:1-2: .... mm 2-3: .... mm 3-4: .... mm

5.1. Maximum permissible length: ..... mm

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6.1. Maximum permissible width: ..... mm

7.1. Maximum permissible height: ..... mm

8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): ..... mm

12.1. Maximum permissible rear overhang: ..... mm

Masses

14. Mass in running order of the incomplete vehicle: ..... kg

14.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

14.2 Actual mass of the incomplete vehicle: .....kg

15. Minimum mass of the vehicle when completed: ..... kg

15.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.2. Semi-trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30. Axle(s) track: 1. ..... mm 2. ..... mm 3. ..... mm

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

37. Pressure in feed line for trailer braking system: ..... bar

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45. Types or classes of coupling devices which can be fitted: .....

45.1. Characteristics values ([1]): D: ..... / V: ..... / S: ..... / U: .....

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([l]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1. test procedure: Type I or ESC (1)

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2. test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

49. CO_2 emissions/fuel consumption/electric energy consumption ([m]):

1. all power train except pure electric vehicles

	CO_2 emissions	Fuel consumption
Urban conditions:	..... g/	..... l/100 km/m3/100
Extra-urban conditions:	..... g/	..... l/100 km/m3/100
Combined:	..... g/	..... l/100 km/m3/100
Weighted, combined	..... g/	..... l/100 km

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2. pure electric vehicles and OVC hybrid electric vehicles

Electric energy consumption (weighted, combined ([1])) ..... Wh/km

Electric range..... km

Miscellaneous

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORY N2

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

2. Steered axles (number, position): .....

3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: .... mm 2-3: .... mm 3-4: .... mm

5.1. Maximum permissible length: ..... mm

6.1. Maximum permissible width: ..... mm

8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): ..... mm

12.1. Maximum permissible rear overhang: ..... mm

Masses

14. Mass in running order of the incomplete vehicle: ..... kg

14.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

14.2 Actual mass of the incomplete vehicle: .....kg

15. Minimum mass of the vehicle when completed: ..... kg

15.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg

2. ..... kg 3. ..... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

17. Intended registration/in service maximum permissible masses in national/ international traffic ([1]) ([o])

17.1. Intended registration/in service maximum permissible laden mass: ..... kg

17.2. Intended registration/in service maximum permissible laden mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg

17.4. Intended registration/in service maximum permissible mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.2. Semi-trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

31. Position of lift axle(s): .....

32. Position of loadable axle(s): .....

33. Drive axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

37. Pressure in feed line for trailer braking system: ..... bar

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45. Types or classes of coupling devices which can be fitted: .....

45.1. Characteristics values ([1]): D: ..... / V: ..... / S: ..... / U: .....

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([l]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1. test procedure: Type I or ESC (1)

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2. test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

Miscellaneous

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORY N3

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

2. Steered axles (number, position): .....

3. Powered axles (number, position, interconnection): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: .... mm 2-3: .... mm 3-4: ... mm

5.1. Maximum permissible length: ..... mm

6.1. Maximum permissible width: ..... mm

8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): ..... mm

12.1. Maximum permissible rear overhang: ..... mm

Masses

14. Mass in running order of the incomplete vehicle: ..... kg

14.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

14.2 Actual mass of the incomplete vehicle: .....kg

15. Minimum mass of the vehicle when completed: ..... kg

15.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg 2. .....kg3. ..... kg etc.

16.4. Technically permissible maximum mass of the combination: ..... kg

17. Intended registration/in service maximum permissible masses in national/ international traffic ([1]) ([o])

17.1. Intended registration/in service maximum permissible laden mass: ..... kg

17.2. Intended registration/in service maximum permissible laden mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg

17.4. Intended registration/in service maximum permissible mass of the combination: ..... kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: ..... kg

18.2. Semi-trailer: ..... kg

18.3. Centre-axle trailer: ..... kg

18.4. Unbraked trailer: ..... kg

19. Technically permissible maximum static mass at the coupling point: ..... kg

Power plant

20. Manufacturer of the engine: .....

21. Engine code as marked on the engine: .....

22. Working principle: .....

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: .....

25. Engine capacity: ..... cm^3

26. Fuel: Diesel/petrol/LPG/CNG — Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

27. Maximum power

27.1.Maximum net power ([g]): … kW at … min–1 (internal combustion engine) ([1])

27.2.Maximum hourly output: … kW (electric motor) ([1])

27.3.Maximum net power: … kW (electric motor) ([1])

27.4.Maximum 30 minutes power: … kW (electric motor) ([1])

28. Gearbox (type): .....

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

31. Position of lift axle(s): .....

32. Position of loadable axle(s): .....

33. Drive axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic ([1])

37. Pressure in feed line for trailer braking system: ..... bar

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45. Types or classes of coupling devices which can be fitted: .....

45.1. Characteristics values ([1]): D: ..../ V: .../ S: ..../ U: .....

Environmental performances

46. Sound level

Stationary: ..... dB(A) at engine speed: ..... min^{-1}

Drive-by: ..... dB(A)

47. Exhaust emission level ([1]): Euro .....

48. Exhaust emissions (m)(m1)(m2):

Number of the base regulatory act and latest amending regulatory act applicable: …

0.1. test procedure: Type I or ESC (1)

CO: … HC: … NOx: … HC + NOx: … Particulates: …

Smoke opacity (ELR): … (m–1)

0.2. test procedure: Type I (Euro 5 or 6 (1)) or WHSC (EURO VI) (1)

CO: … THC: … NMHC: … NOx: … THC + NOx: … NH3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NOx: … NMHC: … THC: … CH4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NOx: … NMHC: … THC: … CH4: … NH3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: ..... (m-1)

Miscellaneous

52. Remarks ([n]): .....

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SIDE 2

VEHICLE CATEGORIES O1 AND O2

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: ... mm 2-3: .... mm 3-4: ... mm

5.1. Maximum permissible length: ..... mm

6.1. Maximum permissible width: ..... mm

7.1. Maximum permissible height: ..... mm

10. Distance between the centre of the coupling device and the rear end of the vehicle: ..... mm

12.1. Maximum permissible rear overhang: ..... mm

Masses

14. Mass in running order of incomplete vehicle: ..... kg

14.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

14.2 Actual mass of the incomplete vehicle: .....kg

15. Minimum mass of the vehicle when completed: ..... kg

15.1. Distribution of this mass amongst the axles: 1. .. kg 2. ... kg 3. ... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg

3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg

2. ..... kg 3. ..... kg etc.

19.1. Technically permissible maximum static mass on the coupling point of a semi-trailer or centre-axle trailer: ..... kg

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

30.1. Track of each steered axle: ..... mm

30.2. Track of all other axles: ..... mm

31. Position of lift axle(s): .....

32. Position of loadable axle(s): .....

34. Axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Coupling device

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44. Approval number or approval mark of coupling device (if fitted): .....

45. Types or classes of coupling devices which can be fitted: .....

45.1. Characteristics values ([1]): D: ..... / V: ..... / S: ..... / U: .....

Miscellaneous

52. Remarks ([n]): .....

SIDE 2

VEHICLE CATEGORIES O3 AND O4

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: ..... and wheels: .....

1.1. Number and position of axles with twin wheels: .....

2. Steered axle (number, position): .....

Main dimensions

4. Wheelbase ([e]): ..... mm

4.1. Axle spacing: 1-2: ... mm 2-3: .... mm 3-4: ... mm

5.1. Maximum permissible length: ..... mm

6.1. Maximum permissible width: ..... mm

7.1. Maximum permissible height: ..... mm

10. Distance between the centre of the coupling device and the rear end of the vehicle: ..... mm

12.1. Maximum permissible rear overhang: ..... mm

Masses

14. Mass in running order of the incomplete vehicle: ..... kg

14.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg etc.

14.2 Actual mass of the incomplete vehicle: .....kg

15. Minimum mass of the vehicle when completed: ..... kg

15.1. Distribution of this mass amongst the axles: 1. ..... kg 2. ..... kg 3. ..... kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: ..... kg

16.2. Technically permissible mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg etc.

16.3. Technically permissible mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg etc.

17. Intended registration/in service maximum permissible masses in national/ international traffic ([1]) ([o])

17.1. Intended registration/in service maximum permissible laden mass: ..... kg

17.2. Intended registration/in service maximum permissible laden mass on each axle: 1. ..... kg 2. ..... kg 3. ..... kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group: 1. ..... kg 2. ..... kg 3. ..... kg

19.1. Technically permissible maximum static mass on the coupling point of a semi-trailer or centre-axle trailer: ..... kg

Maximum speed

29. Maximum speed: ..... km/h

Axles and suspension

31. Position of lift axle(s): .....

32. Position of loadable axle(s): .....

34. Axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination ([h]): .....

Coupling device

44. Approval number or approval mark of coupling device (if fitted): .....

45. Types or classes of coupling devices which can be fitted: .....

45.1. Characteristics values ([1]): D: ..... / V: ..... / S: ..... / U: .....

Miscellaneous

52. Remarks ([n]): .....

Explanatory notes relating to Annex IX

([1]) Delete where not applicable

([a]) Indicate the identification code.

([b]) Indicate whether the vehicle is suitable for use in either right or left-hand traffic or both right and left-hand traffic.

([c]) Indicate whether the speedometer fitted has metric or both metric and imperial units.

([d]) This statement shall not restrict the right of the Member States to require technical adaptations in order to allow the registration of a vehicle in a Member State other than the one for which it was intended when the direction of the traffic is on the opposite side of the road.

([e]) Entries 4 and 4.1 shall be completed in accordance with definitions 25 (Wheelbase) and 26 (Axle spacing) of Regulation (EU) No 1230/2012 respectively'

([g]) For hybrid electric vehicles, indicate both power outputs.

([h]) Optional equipment under this letter can be added under entry 'Remarks'. ([i]) The codes described in Annex II Letter C shall be used.

([j]) Indicate only the basic colour(s) as follows: white, yellow, orange, red, violet, blue, green, grey, brown or black.

([k]) Excluding seats designated for use only when the vehicle is stationary and the number of wheelchair positions.

For coaches belonging to the vehicle category M_3 the number of crew members shall be included in the passenger number.

([l]) Add the number of the Euro level and the character corresponding to the provisions used for type-approval.

([m]) Repeat for the various fuels that can be used. Vehicles that can be fuelled with both petrol and gaseous fuel but in which the petrol system is fitted for emergency purposes or for starting

only and the petrol tank of which cannot contain more than 15 litres of petrol will be regarded as vehicles that can only run on a gaseous fuel

([m1]) In case of EURO VI dual-fuel engines and vehicles, repeat as appropriate.

([m2]) Solely emissions assessed in accordance with the applicable regulatory act or acts shall be stated

([n]) If the vehicle is equipped with 24 GHz short-range radar equipment in accordance with Commission Decision 2005/50/EC (OJ L 21, 25.1.2005, p. 15), the manufacturer shall indicate here: 'Vehicle equipped with 24 GHz short-range radar equipment'.

([o]) The manufacturer may complete these entries either for international traffic or national traffic or both.

For national traffic, the code of the country where the vehicle is intended to be registered shall be mentioned. The code shall be in accordance with standard ISO 3166-1:2006.

For international traffic, the directive number shall be referred to (e.g. '96/53/EC' for Council Directive 96/53/EC).

([p]) Eco-innovations.

([p1]) The general code of the eco-innovation(s) shall consist of the following elements, each separated by a blank space:

— Code of the approval authority as set out in Annex VII;

— Individual code of each eco-innovation fitted in the vehicle, indicated in chronological order of the Commission approval decisions.

(E.g. the general code of three eco-innovations approved chronologically as 10, 15 and 16 and fitted to a vehicle certified by the German type-approval authority should be: 'e1 10 15 16'.)

([p2]) Sum of the CO_2 emissions savings of each individual eco-innovation.

([q]) In the case of completed vehicles of category N_1 within the scope of Regulation (EC) No 715/2007.

SCHEDULE X

[Regulation 12(1), (2)(a) and (b)]

CONFORMITY OF PRODUCTION PROCEDURES

0. OBJECTIVES

0.1. The conformity of production procedure aims to ensure that each produced vehicle, system, component and technical separate unit is in conformity with the approved type.

0.2. Procedures include inseparably, the assessment of quality management systems, referred to below as the 'initial assessment' and verification of the approval subject and product-related controls, and referred to as 'product conformity arrangements'.

1. INITIAL ASSESSMENT

1.1. The approval authority of a Member State shall verify the existence of satisfactory arrangements and procedures for ensuring effective control so that components, systems, separate technical units or vehicles when in production conform to the approved type.

1.2. Guidance for conducting assessments may be found in Standard EN ISO 19011:2002 - Guidelines for quality and/or environmental management systems auditing.

1.3. The requirements referred to in paragraph 1.1 shall be verified to the satisfaction of the authority granting type-approval.

That authority shall be satisfied with the initial assessment and the product conformity arrangements at section 2 below, taking account, as necessary, of one of the arrangements described at paragraphs 1.3.1 to 1.3.3, or a combination of those arrangements in full or in part as appropriate.

1.3.1. The actual initial assessment and/or verification of product conformity arrangements shall be carried out by the approval authority granting the approval or an appointed body acting on behalf of the approval authority.

1.3.1.1. When considering the extent of the initial assessment to be carried out, the approval authority may take account of available information relating to:

(a) the manufacturer's certification described in paragraph 1.3.3, which has not been qualified or recognised under that paragraph,

(b) in the case of component or separate technical unit type-approval, quality system assessments performed in the component or separate technical unit manufacturer's premises by vehicle manufacturer(s), according to one or more of the industry sector specifications satisfying the requirements in harmonised standard EN ISO 9002-1994, or EN ISO 9001-2000.

1.3.2. The actual initial assessment and/or verification of product conformity arrangements may also be carried out by the approval authority of another Member State or the appointed body designated for this purpose by the approval authority.

1.3.2.1. In such a case, the approval authority of the other Member State shall prepare a statement of compliance outlining the areas and production facilities it has covered as relevant to the product(s) to be type-approved and to the regulatory acts according to which these products are to be type-approved.

1.3.2.2. On receiving an application for a compliance statement from the approval authority of a Member State granting type-approval, the approval authority of another Member State shall send forthwith the statement of compliance or advise that it is not in a position to provide such a statement.

1.3.2.3. The statement of compliance shall include at least the following:

(a)	Group or company:	(e.g. XYZ Automotive)
(b)	Particular organisation:	(e.g. European Division)
(c)	Plants/Sites:	(e.g. Engine Plant 1 (United Kingdom) Vehicle Plant 2 (Germany))
(d)	Vehicle/Component range:	(e.g. All Category M1 models)
(e)	Areas assessed:	(e.g. Engine assembly, body pressing and assembly, vehicle assembly)
(f)	Documents examined:	(e.g. Company and site quality manual and procedures)
(g)	Date of assessment:	(e.g. Audit conducted from 18 to 30.5.2009)
(h)	Planned monitoring visit	(e.g. October 2010)

1.3.3. The approval authority shall also accept the manufacturer's suitable certification to harmonised standard EN ISO 9002-2008 or an equivalent harmonised standard as satisfying the initial assessment requirements of paragraph 1.3. The manufacturer shall provide details of the certification and undertake to inform the approval authority of any revisions to its validity or scope.

1.4. For the purpose of the whole vehicle type-approval, the initial assessments carried out for granting of approvals for systems, components and technical units of the vehicle need not be repeated, but shall be completed by an assessment covering the locations and activities relating to the assembly of the whole vehicle not covered by the former assessments.

2. PRODUCT CONFORMITY ARRANGEMENTS

2.1. Every vehicle, system, component or separate technical unit approved pursuant to the Directive or a separate directive or regulation must be so manufactured as to conform to the type approved by meeting the requirements of the Directive or the applicable regulatory acts listed in Schedule IV.

2.2. The approval authority of a Member State shall verify the existence of adequate arrangements and documented control plans, to be agreed with the manufacturer for each approval, to carry out at specified intervals those tests or associated checks necessary to verify continued conformity with the approved type including specifically physical tests specified in the regulatory acts.

2.3. The holder of the type-approval shall, in particular:

2.3.1. ensure the existence and application of procedures for effective control of the conformity of products (vehicles, systems, components or separate technical units) to the approved type;

2.3.2. have access to the testing or other appropriate equipment necessary for checking the conformity to each approved type;

2.3.3. ensure that test or check results data are recorded and that annexed documents remain available for a period to be determined in agreement with the approval authority. This period shall not exceed 10 years;

2.3.4. analyse the results of each type of test or check, in order to verify and ensure the stability of the product characteristics, making allowance for variation of an industrial production;

2.3.5. ensure that for each type of product, at least the checks prescribed in the Directive and the tests prescribed in the applicable regulatory acts listed in Schedule IV are carried out;

2.3.6. ensure that any set of samples or test pieces, giving evidence of non-conformity in the type of test or check in question gives rise to a further sampling and test or check. All the necessary steps shall be taken to restore conformity of the corresponding production;

2.3.7. in the case of vehicle type-approval, the checks referred to in paragraph 2.3.5 shall at least consist in verifying the correct build specification in relation to the approval and the information required for certificates of conformity given in Schedule IX.

3. CONTINUED VERIFICATION ARRANGEMENTS

3.1. The authority which has granted type-approval may at any time verify the conformity control methods applied in each production facility.

3.1.1. The normal arrangements shall be to monitor the continued effectiveness of the procedures laid down in Sections 1 and 2 (initial assessment and product conformity arrangements) of this Schedule.

3.1.1.1. Surveillance activities carried out by the technical services (qualified or recognised as required by paragraph 1.2.3) shall be accepted as satisfying the requirements of paragraph 3.1.1 with regard to the procedures established at initial assessment.

3.1.1.2. The normal frequency of verifications by the approval authority (other than those referred to in paragraph 3.1.1.1) shall be such as to ensure that the relevant controls applied in accordance with Sections 1 and 2 are reviewed over a period consistent with the climate of trust established by the approval authority.

3.2. At every review, records of tests or checks and records of production shall be made available to the inspector; in particular, records of those tests or checks documented as required in paragraph 2.2.

3.3. The inspector may select samples at random to be tested in the manufacturer’s laboratory or in the facilities of the technical service, In such a case only a physical test shall be carried out. The minimum number of samples may be determined according to the results of the manufacturer’s own verification.

3.4. Where the level of control appears unsatisfactory, or when it seems necessary to verify the validity of the tests carried out in accordance with paragraph 3.2, the inspector shall select samples to be sent to a technical service to perform physical tests.

3.5. Where unsatisfactory results are found during an inspection or a monitoring review, the approval authority shall ensure that all necessary steps are taken to restore conformity of production as rapidly as possible.

SCHEDULE XI

[Regulations 3, 6(2) and (3), 9(1)(b), (2), (4) and (5), 10(1), 12(2)(b) and 28(1)]

NATURE OF AND PROVISIONS FOR THE EC TYPE-APPROVAL OF SPECIAL PURPOSE VEHICLES

Appendix 1

Motor-Caravans, Ambulances and Hearses

Item	Subject	Regulatory act reference	$M_1 \leq 2\,500$ kg	$M_1 > 2\,500$ kg	M_2	M_3
1	Permissible Sound level	Directive 70/157/EEC	H	G+H	G+H	G+H
2	Emissions (Euro 5 and 6) light duty vehicles/access to information	Regulation (EC) 715/2007	Q ([1])	G+Q ([1])	G+Q ([1])	
3	Fuel tanks/rear protective devices	Directive 70/221/EEC	F ([2])	F ([2])	F ([2])	F ([2])
3A	Prevention of fire risks (liquid fuel tanks)	Regulation (EC) No 661/2009 UNECE Regulation No 34	F ([2])	F ([2])	F ([2])	F ([2])
3B	Rear underrun protective devices (RUPDs) and their installation; rear underrun protection (RUP)	Regulation (EC) No 661/2009 UNECE Regulation No 58	X	X	X	X
4	Rear registration plate space	Directive 70/222/EEC	X	X	X	X
4A	Space for mounting and fixing rear registration plates	Regulation (EC) No 661/2009 Regulation (EU) No 1003/2010	X	X	X	X
5	Steering effort	Directive 70/311/EEC	X	G	G	G
5A	Steering equipment	Regulation (EC) No 661/2009 UNECE Regulation No 79	X	G	G	G
6	Door latches and hinges	Directive 70/387/EEC	B	G+B		
6A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X	X		
6B	Door latches and door retention components	Regulation (EC) No 661/2009 UNECE Regulation No 11	B	G+B		
7	Audible warning	Directive 70/388/EEC	X	X	X	X
7A	Audible warning devices and signals	Regulation (EC) No 661/2009 UNECE Regulation No 28	X	X	X	X

8	Devices for indirect vision	Directive 2003/97/EC	X	G	G	G
8A	Devices for indirect vision and their installation	Regulation (EC) No 661/2009 UNECE Regulation No 46	X	G	G	G
9	Braking	Directive 71/320/EEC	X	G	G	G
9A	Braking of vehicles and trailers	Regulation (EC) No 661/2009 UNECE Regulation No 13-H	X ([4])	G+A_1		
9B	Braking of vehicles and trailers	Regulation (EC) No 661/2009 UNECE Regulation No 13			G([3])	G([3])
10	Radio interference (electromagnetic compatibility)	Directive 72/245/EEC	X	X	X	X
10A	Electromagnetic compatibility	Regulation (EC) No 661/2009 UNECE Regulation No 10	X	X	X	X
12	Interior fittings	Directive 74/60/EEC	C	G+C		
12A	Interior fittings	Regulation (EC) No 661/2009 UNECE Regulation No 21	C	G+C		
13	Anti-theft and immobiliser	Directive 74/61/EEC	X	G	G	G
13A	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 18			G ([4A])	G ([4A])
13B	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 116	X	G		
14	Protective steering	Directive 74/297/EEC	X	G		
14A	Protection of the driver against the steering mechanism in the event of impact	Regulation (EC) No 661/2009 UNECE Regulation No 12	X	G		
15	Seat strength	Directive 74/408/EEC	D	G+D	G+D	G+D
15A	Seats, their anchorages and any head restraints	Regulation (EC) No 661/2009 UNECE Regulation No 17	D	G+D	G+D ([4B])	G+D ([4B])

15B	Seats of large passenger vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 80			X	X
16	Exterior projections	Directive 74/483/ EEC	X for the cab; A+Z for the remaining part	G for the cab; A+Z for the remaining part		
16A	External projections	Regulation (EC) No 661/2009 UNECE Regulation No 26	X for the cab; A+Z for the remaining part	G for the cab; A+Z for the remaining part		
17	Speedometer and reverse gear	Directive 75/443/ EEC	X	X	X	X
17A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X	X	X	X
17B	Speedometer equipment including its installation	Regulation (EC) No 661/2009 UNECE Regulation No 39	X	X	X	X
18	Plates (statutory)	Directive 76/114/ EEC	X	X	X	X
18A	Manufacturer's statutory plate and vehicle identification number	Regulation (EC) No 661/2009 Regulation (EU) No 19/2011	X	X	X	X
19	Seat belt anchorages	Directive 76/115/ EEC	D	G+L	G+L	G+L
19A	Safety-belt anchorages, Isofix anchorages systems and Isofix top tether anchorages	Regulation (EC) No 661/2009 UNECE Regulation No 14	D	G+L	G+L	G+L
20	Installation of lighting and light signalling devices	Directive 76/756/ EEC	A+N	A+G+N for the cab; A+N for the remaining part	A+G+N for the cab; A+N for the remaining part	A+G+N for the cab; A+N for the remaining part
20A	Installation of lighting and light-signalling devices on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 48	A+N	A+G+N for the cab; A+N for the remaining part	A+G+N for the cab; A+N for the remaining part	A+G+N for the cab; A+N for the remaining part
21	Retro reflectors	Directive 76/757/ EEC	X	X	X	X
21A	Retro-reflecting devices for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 3	X	X	X	X
22	End-outline, front-side, rear-side, stop, day time running, side-marker lamps	Directive 76/758/ EEC	X	X	X	X

22A	Front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 7	X	X	X	X
22B	Daytime running lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 87	X	X	X	X
22C	Side-marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 91	X	X	X	X
23	Direction indicators	Directive 76/759/ EEC	X	X	X	X
23A	Direction indicators for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 6	X	X	X	X
24	Rear registration plate lamps	Directive 76/760/ EEC	X	X	X	X
24A	Illumination of rear-registration plates of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 4	X	X	X	X
25	Head lamps (including bulbs)	Directive 76/761/ EEC	X	X	X	X
25A	Power-driven vehicle's sealed-beam headlamps (SB) emitting an European asymmetrical passing beam or a driving beam or both	Regulation (EC) No 661/2009 UNECE Regulation No 31	X	X	X	X
25B	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 37	X	X	X	X
25C	Motor vehicle headlamps equipped with gas-discharge light sources	Regulation (EC) No 661/2009 UNECE Regulation No 98	X	X	X	X
25D	Gas-discharge light sources for use in approved gas-discharge lamp units of power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 99	X	X	X	X
25E	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules	Regulation (EC) No 661/2009 UNECE Regulation No 112	X	X	X	X

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25F	Adaptive front-lighting systems (AFS) for motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 123	X	X	X	X
26	Front fog lamps	Directive 76/762/ EEC	X	X	X	X
26A	Power-driven vehicle front fog lamps	Regulation (EC) No 661/2009 UNECE Regulation No 19	X	X	X	X
27	Towing hooks	Directive 77/389/ EEC	E	E	E	E
27A	Towing device	Regulation (EC) No 661/2009 Regulation (EU) No 1005/2010	E	E	E	E
28	Rear fog lamps	Directive 77/538/ EEC	X	X	X	X
28A	Rear fog lamps for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 38	X	X	X	X
29	Reversing lamps	Directive 77/539/ EEC	X	X	X	X
29A	Reversing lights for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 23	X	X	X	X
30	Parking lamps	Directive 77/540/ EEC	X	X	X	X
30A	Parking lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 77	X	X	X	X
31	Seat belts and restraint systems	Directive 77/541/ EEC	D	G+M	G+M	G+M
31A	Safety-belts, restraint systems, child restraint systems and Isofix child restraint systems	Regulation (EC) No 661/2009 UNECE Regulation No 16	D	G+M	G+M	G+M
32	Forward vision	Directive 77/649/ EEC	X	G		
32A	Forward field of vision	Regulation (EC) No 661/2009 UNECE Regulation No 125	X	G		
33	Identification of controls, tell-tales and indicators	Directive 78/316/ EEC	X	X	X	X
33A	Location and identification of hand controls, tell-tales and indicators	Regulation (EC) No 661/2009 UNECE Regulation No 121	X	X	X	X

34	Defrost/demist	Directive 78/317/EEC	X	G ([5])	([5])	([5])
34A	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009 Regulation (EU) No 672/2010	X	G ([5])	([5])	([5])
35	Wash/wipe	Directive 78/318/EEC	X	G ([6])	([6])	([6])
35A	Windscreen wiper and washer systems	Regulation (EC) No 661/2009 Regulation (EU) No 1008/2010	X	G ([6])	([6])	([6])
36	Heating systems	Directive 2001/56/EC	X	X	X	X
36A	Heating systems	Regulation (EC) No 661/2009 UNECE Regulation No 122	X	X	X	X
37	Wheel guards	Directive 78/549/EEC	X	G		
37A	Wheel guards	Regulation (EC) No 661/2009 Regulation (EU) No 1009/2010	X	G		
38	Head restraints	Directive 78/932/EEC	D	G+D		
38A	Head restraints (headrests), whether or not incorporated in vehicle seats	Regulation (EC) No 661/2009 UNECE Regulation No 25	D	G+D		
41	Emissions (Euro IV and V) heavy duty vehicles	Directive 2005/55/EC	H ([8])	G+H ([8])	G+H ([8])	G+H ([8])
41A	Emissions (Euro VI) heavy duty vehicles/ access to information	Regulation (EC) No 595/2009	G+H ([9])	G+H ([9])	G+H ([9])	G+H ([9])
44	Masses and dimensions (cars)	Directive 92/21/EEC	X	X		
44A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012	X	X		
45	Safety glazing	Directive 92/22/EEC	J	G+J	G+J	G+J
45A	Safety glazing materials and their installation on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 43	J	G+J	G+J	G+J
46	Tyres	Directive 92/23/EEC	X	G	G	G
46A	Installation of tyres	Regulation (EC) No 661/2009 Regulation (EU) No 458/2011	X	G	G	G

46B	Pneumatic tyres for motor vehicles and their trailers (Class C1)	Regulation (EC) No 661/2009 UNECE Regulation No 30	X	G		
46C	Pneumatic tyres for commercial vehicles and their trailers (Classes C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 54	—	G	G	G
46D	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (Classes C1, C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 117	X	G	G	G
46E	Temporary-use spare unit, run-flat tyres/system and tyre pressure monitoring system	Regulation (EC) No 661/2009 UNECE Regulation No 64	X	G		
47	Speed limitation devices	Directive 92/24/EEC			X	X
47A	Speed limitation of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 89			X	X
48	Masses and dimensions (other than vehicles referred to in item 44)	Directive 97/27/EC			X	X
48A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012			X	X
50	Couplings	Directive 94/20/EC	X ([10])	G ([10])	G ([10])	G ([10])
50A	Mechanical coupling components of combinations of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 55	X ([10])	G ([10])	G ([10])	G ([10])
51	Flammability	Directive 95/28/EC				G for the cab; X for the remaining part
51A	Burning behaviour of materials used in the interior construction of certain categories of motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 118				G for the cab; X for the remaining part
52	Buses and coaches	Directive 2001/85/EC			A	A
52A	M_2 and M_3 vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 107			A	A

52B	Strength of the superstructure of large passenger vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 66			A	A
53	Frontal impact	Directive 96/79/EC	N/A	N/A		
53A	Protection of occupants in the event of a frontal collision	Regulation (EC) No 661/2009 UNECE Regulation No 94	N/A	N/A		
54	Side impact	Directive 96/27/EC	N/A	N/A		
54A	Protection of occupants in the event of lateral collision	Regulation (EC) No 661/2009 UNECE Regulation No 95	N/A	N/A		
58	Pedestrian protection	Regulation (EC) No 78/2009	X	N/A. However, any frontal protection systems supplied with the vehicle shall comply and shall be marked		
59	Recyclability	Directive 2005/64/EC	N/A	N/A		
61	Air-conditioning system	Directive 2006/40/EC	X	G ([14])		
62	Hydrogen system	Regulation (EC) No 79/2009	X	X	X	X
63	General Safety	Regulation (EC) No 661/2009	X ([15])	X ([15])	X ([15])	X ([15])
64	Gear shift indicators	Regulation (EC) No 661/2009 Regulation (EU) No 65/2012	X	G		
65	Advanced emergency braking system	Regulation (EC) No 661/2009 Regulation (EU) No 347/2012			N/A ([16])	N/A ([16])
66	Lane departure warning system	Regulation (EC) No 661/2009 Regulation (EU) No 351/2012			N/A ([17])	N/A ([17])
67	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 67	X	X	X	X
68	Vehicle alarm systems (VAS)	Regulation (EC) No 661/2009 UNECE Regulation No 97	X	G		

69	Electrical safety	Regulation (EC) No 661/2009 UNECE Regulation No 100	X	X	X	X
70	Specific components for CNG and their installation on motor vehicules	Regulation (EC) No 661/2009 UNECE Regulation No 110	X	X	X	X

Additional requirements for ambulances

The patient compartment of ambulances shall comply with the requirements of EN 1789:2007 +A1: 2010 +A2:2014 on Medical vehicles and their equipment – Road ambulances with the exception of Section 6.5, list of equipment. Proof of compliance shall be provided with a test report of a technical service. If a Wheelchair space is foreseen, the requirements of Appendix 3 relating to the wheelchair tie down and occupant restraint systems shall apply.

Appendix 2

Appendix 2

Armoured Vehicles

Item	**Subject**	**Reference to regulatory act**	**M_1**	**M_2**	**M_3**	**N_1**	**N_2**	**N_3**	**O_1**	**O_2**	**O_3**	**O_4**
1	Permissible sound level	Directive 70/157/EEC	X	X	X	X	X	X				
2	Emissions (Euro 5 and 6) light duty vehicles/access to information	Regulation (EC) No 715/2007	A ([1])	A ([1])		A ([1])	A ([1])					
3	Fuel tanks/rear protective devices	Directive 70/221/EEC	X ([2])	X ([2])	X ([2])	X ([2])	X ([2])	X ([2])	X	X	X	X
3A	Prevention of fire risks (liquid fuel tanks)	Regulation (EC) No 661/2009 UNECE Regulation No 34	X ([2])	X ([2])	X ([2])	X ([2])	X ([2])	X ([2])	X	X	X	X
3B	Rear underrun protective devices (RUPDs) and their installation; rear underrun protection (RUP)	Regulation (EC) No 661/2009 UNECE Regulation No 58	X	X	X	X	A	A	X	X	X	X
4	Rear registration plate space	Directive 70/222/EEC	X	X	X	X	X	X	X	X	X	X

4A	Space for mounting and fixing rear registration plates	Regulation (EC) No 661/2009 Regulation (EU) No 1003/2010	X	X	X	X	X	X	X	X	X	X
5	Steering effort	Directive 70/311/EEC	X	X	X	X	X	X	X	X	X	X
5A	Steering equipment	Regulation (EC) No 661/2009 UNECE Regulation No 79	X	X	X	X	X	X	X	X	X	X
6	Door latches and hinges	Directive 70/387/EEC	X			X	X	X				
6A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X	X	X	X	X	X				
6B	Door latches and door retention components	Regulation (EC) No 661/2009 UNECE Regulation No 11	X			X						
7	Audible warning	Directive 70/388/EEC	A+K	A+K	A+K	A+K	A+K	A+K				
7A	Audible warning devices and signals	Regulation (EC) No 661/2009 UNECE Regulation No 28	A+K	A+K	A+K	A+K	A+K	A+K				
8	Indirect vision devices	Directive 2003/97/EC	A	A	A	A	A	A				
8A	Devices for indirect vision and their installation	Regulation (EC) No 661/2009 UNECE Regulation No 46	A	A	A	A	A	A				
9	Braking	Directive 71/320/EEC	X	X	X	X	X	X	X	X	X	X
9A	Braking of vehicles and trailers	Regulation (EC) No 661/2009 UNECE Regulation No 13		X ([3])	X ([3])	X ([3])	X ([3])	X ([3])	X ([3])	X ([3])	X ([3])	X ([3])

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9B	Braking of passenger cars	Regulation (EC) No 661/2009 UNECE Regulation No 13-H	X ([4])			X ([4])						
10	Radio interference (electromagnetic compatibility)	Directive 72/245/EEC	X	X	X	X	X	X	X	X	X	X
10A	Electromagnetic compatibility	Regulation (EC) No 661/2009 UNECE Regulation No 10	X	X	X	X	X	X	X	X	X	X
12	Interior fittings	Directive 74/60/EEC	A									
12A	Interior fittings	Regulation (EC) No 661/2009 UNECE Regulation No 21	A									
13	Anti-theft and immobiliser	Directive 74/61/EEC	X	X	X	X	X	X				
13A	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 18		X ([4A])	X ([4A])		X ([4A])	X ([4A])				
13B	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 116	X			X						
14	Protective steering	Directive 74/297/EEC	N/A			N/A						
14A	Protection of the driver against the steering mechanism in the event of impact	Regulation (EC) No 661/2009 UNECE Regulation No 12	N/A			N/A						
15	Seat strength	Directive 74/408/EEC	X	D	D	D	D	D				
15A	Seats, their anchorages and any head restraints	Regulation (EC) No 661/2009 UNECE Regulation No 17	X	D ([4B])	D ([4B])	D	D	D				

15B	Seats of large passenger vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 80		D	D							
16	Exterior projections	Directive 74/483/EEC	A									
16A	External projections	Regulation (EC) No 661/2009 UNECE Regulation No 26	A									
17	Speedometer and reverse gear	Directive 75/443/EEC	X	X	X	X	X	X				
17A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X	X	X	X	X	X				
17B	Speedometer equipment including its installation	Regulation (EC) No 661/2009 UNECE Regulation No 39	X	X	X	X	X	X				
18	Statutory plates	Directive 76/114/EEC	X	X	X	X	X	X	X	X	X	X
18A	Manufacturer's statutory plate and vehicle identification number	Regulation (EC) No 661/2009 Regulation (EU) No 19/2011	X	X	X	X	X	X	X	X	X	X
19	Seat belt anchorages	Directive 76/115/EEC	A	A	A	A	A	A				
19A	Safety-belt anchorages, Isofix anchorages systems and Isofix top tether anchorages	Regulation (EC) No 661/2009 UNECE Regulation No 14	A	A	A	A	A	A				
20	Installation of lighting and light signalling devices	Directive 76/756/EEC	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N
20A	Installation of lighting and light-signalling devices on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 48	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N
21	Retro reflectors	Directive 76/757/EEC	X	X	X	X	X	X	X	X	X	X

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21A	Retro-reflecting devices for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 3	X	X	X	X	X	X	X	X	X	X
22	End-outline, front-position (side), rear-position (side), stop, side marker, daytime running lamps	Directive 76/758/EEC	X	X	X	X	X	X	X	X	X	X
22A	Front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 7	X	X	X	X	X	X	X	X	X	X
22B	Daytime running lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 87	X	X	X	X	X	X				
22C	Side-marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 91	X	X	X	X	X	X	X	X	X	X
23	Direction indicators	Directive 76/759/EEC	X	X	X	X	X	X	X	X	X	X
23A	Direction indicators for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 6	X	X	X	X	X	X	X	X	X	X
24	Rear registration plate lamps	Directive 76/760/EEC	X	X	X	X	X	X	X	X	X	X
24A	Illumination of rear-registration plates of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 4	X	X	X	X	X	X	X	X	X	X
25	Headlamps (including bulbs)	Directive 76/761/EEC	X	X	X	X	X	X				
25A	Power-driven vehicle's sealed-beam headlamps (SB) emitting an European asymmetrical passing beam or a driving beam or both	Regulation (EC) No 661/2009 UNECE Regulation No 31	X	X	X	X	X	X				

25B	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 37	X	X	X	X	X	X	X	X	X	X
25C	Motor vehicle headlamps equipped with gas-discharge light sources	Regulation (EC) No 661/2009 UNECE Regulation No 98	X	X	X	X	X	X				
25D	Gas-discharge light sources for use in approved gas-discharge lamp units of power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 99	X	X	X	X	X	X				
25E	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules	Regulation (EC) No 661/2009 UNECE Regulation No 112	X	X	X	X	X	X				
25F	Adaptive front-lighting systems (AFS) for motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 123	X	X	X	X	X	X				
26	Front fog lamps	Directive 76/762/EEC	X	X	X	X	X	X				
26A	Power-driven vehicle front fog lamps	Regulation (EC) No 661/2009 UNECE Regulation No 19	X	X	X	X	X	X				
27	Towing hooks	Directive 77/389/EEC	A	A	A	A	A	A				
27A	Towing device	Regulation (EC) No 661/2009 Regulation (EU) No 1005/2010	A	A	A	A	A	A				
28	Rear fog lamps	Directive 77/538/EEC	X	X	X	X	X	X	X	X	X	X
28A	Rear fog lamps for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 38	X	X	X	X	X	X	X	X	X	X

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29	Reversing lamps	Directive 77/539/EEC	X	X	X	X	X	X	X	X	X	X
29A	Reversing lights for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 23	X	X	X	X	X	X	X	X	X	X
30	Parking lamps	Directive 77/540/EEC	X	X	X	X	X	X				
30A	Parking lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 77	X	X	X	X	X	X				
31	Seat belts and restraint systems	Directive 77/541/EEC	A	A	A	A	A	A				
31A	Safety-belts, restraint systems, child restraint systems and Isofix child restraint systems	Regulation (EC) No 661/2009 UNECE Regulation No 16	A	A	A	A	A	A				
32	Forward vision	Directive 77/649/EEC	S									
32A	Forward field of vision	Regulation (EC) No 661/2009 UNECE Regulation No 125	S									
33	Identification of controls, tell-tales and indicators	Directive 78/316/EEC	X	X	X	X	X	X				
33A	Location and identification of hand controls, tell-tales and indicators	Regulation (EC) No 661/2009 UNECE Regulation No 121	X	X	X	X	X	X				
34	Defrost/demist	Directive 78/317/EEC	A	([5])	([5])	([5])	([5])	([5])				
34A	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009 Regulation (EU) No 672/2010	A	([5])	([5])	([5])	([5])	([5])				
35	Wash/wipe	Directive 78/318/EEC	A	([6])	([6])	([6])	([6])	([6])				

35A	Windscreen wiper and washer systems	Regulation (EC) No 661/2009 Regulation (EU) No 1008/2010	A	(6)	(6)	(6)	(6)	(6)				
36	Heating systems	Directive 2001/56/EC	X	X	X	X	X	X	X	X	X	X
36A	Heating systems	Regulation (EC) No 661/2009 UNECE Regulation No 122	X	X	X	X	X	X	X	X	X	X
37	Wheel guards	Directive 78/549/EEC	X									
37A	Wheel guards	Regulation (EC) No 661/2009 Regulation (EU) No 1009/2010	X									
38	Head restraints	Directive 78/932/EEC	X									
41	Emissions (Euro IV and V) heavy duty vehicles.	Directive 2005/55/EC	A (8)	X (8)	X	X (8)	X (8)	X				
41A	Emissions (Euro VI) heavy duty vehicles/ access to information	Regulation (EC) No 595/2009	X (9)	X (9)	X	X (9)	X (9)	X				
42	Lateral protection	Directive 89/297/EEC					X	X			X	X
42A	Lateral protection of goods vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 73					X	X			X	X
43	Spray-suppression systems	Directive 91/226/EEC				X	X	X	X	X	X	X
43A	Spray suppression systems	Regulation (EC) No 661/2009 Regulation (EU) No 109/2011				X	X	X	X	X	X	X
44	Masses and dimensions (cars)	Directive 92/21/EEC	X									
44A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012	X									
45	Safety glazing	Directive 92/22/EEC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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45A	Safety glazing materials and their installation on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
46	Tyres	Directive 92/23/EEC	A	A	A	A	A	A	A	A	A	A
46A	Installation of tyres	Regulation (EC) No 661/2009 Regulation (EU) No 458/2011	A	A	A	A	A	A	A	A	A	A
46B	Pneumatic tyres for motor vehicles and their trailers (Class C1)	Regulation (EC) No 661/2009 UNECE Regulation No 30	A			A			A	A		
46C	Pneumatic tyres for commercial vehicles and their trailers (Classes C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 54		A	A	A	A	A			A	A
46D	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (Classes C1, C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 117	A	A	A	A	A	A	A	A	A	A
46E	Temporary-use spare unit, run-flat tyres/system and tyre pressure monitoring system	Regulation (EC) No 661/2009 UNECE Regulation No 64	A ([9A])			A ([9A])						
47	Speed limitation devices	Directive 92/24/EEC		X	X		X	X				
47A	Speed limitation of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 89		X	X		X	X				
48	Masses and dimensions (other than vehicles referred to in item 44)	Directive 97/27/EC		X	X	X	X	X	X	X	X	X
48A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012		X	X	X	X	X	X	X	X	X

49	External projections of cabs	Directive 92/114/EEC				A	A	A				
49A	Commercial vehicles with regard to their external projections forward of the cab's rear panel	Regulation (EC) No 661/2009 UNECE Regulation No 61				A	A	A				
50	Couplings	Directive 94/20/EC	X ([10])	X ([10])	X ([10])	X ([10])	X ([10])	X ([10])	X	X	X	X
50A	Mechanical coupling components of combinations of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 55	X ([10])	X ([10])	X ([10])	X ([10])	X ([10])	X ([10])	X	X	X	X
50B	Close-coupling device (CCD); fitting of an approved type of CCD	Regulation (EC) No 661/2009 UNECE Regulation No 102					X ([10])	X ([10])			X ([10])	X ([10])
51	Flammability	Directive 95/28/EC			X							
51A	Burning behaviour of materials used in the interior construction of certain categories of motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 118			X							
52	Buses and coaches	Directive 2001/85/EC		A	A							
52A	M_2 and M_3 vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 107		A	A							
52B	Strength of the superstructure of large passenger vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 66		A	A							
53	Frontal impact	Directive 96/79/EC	N/A									
53A	Protection of occupants in the event of a frontal collision	Regulation (EC) No 661/2009 UNECE Regulation No 94	N/A									
54	Side impact	Directive 96/27/EC	N/A			N/A						

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54A	Protection of occupants in the event of lateral collision	Regulation (EC) No 661/2009 UNECE Regulation No 95	N/A			N/A						
55	(empty)											
56	Vehicles intended for the transport of dangerous goods	Directive 98/91/EC				X ([13])	X ([13])	X ([13])	X ([13])	X ([13])	X ([13])	X ([13])
56A	Vehicles for the carriage of dangerous goods	Regulation (EC) No 661/2009 UNECE Regulation No 105				X ([13])	X ([13])	X ([13])	X ([13])	X ([13])	X ([13])	X ([13])
57	Front underrun protection	Directive 2000/40/EC					X	X				
57A	Front underrun protective devices (FUPDs) and their installation; front underrun protection (FUP)	Regulation (EC) No 661/2009 UNECE Regulation No 93					X	X				
58	Pedestrian protection	Regulation (EC) No 78/2009	N/A			N/A						
59	Recyclability	Directive 2005/64/EC	N/A			N/A		—				
60	(empty)											
61	Air-conditioning systems	Directive 2006/40/EC	X			X ([14])						
62	Hydrogen system	Regulation (EC) No 79/2009	A	A	A	A	A	A				
63	General Safety	Regulation (EC) No 661/2009	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])
64	Gear shift indicators	Regulation (EC) No 661/2009 Regulation (EU) No 65/2012	X									
65	Advanced emergency braking system	Regulation (EC) No 661/2009 Regulation (EU) No 347/2012		([16])	([16])		([16])	([16])				
66	Lane departure warning system	Regulation (EC) No 661/2009 Regulation (EU) No 351/2012		([17])	([17])		([17])	([17])				

67	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 67	X	X	X	X	X	X				
68	Vehicle alarm systems (VAS)	Regulation (EC) No 661/2009 UNECE Regulation No 97	X			X						
69	Electrical safety	Regulation (EC) No 661/2009 UNECE Regulation No 100	X	X	X	X	X	X				
70	Specific components for CNG and their installation on motor vehicules	Regulation (EC) No 661/2009 UNECE Regulation No 110	X	X	X	X	X	X				

Appendix 3

Wheel-chair Accessible Vehicles

Item	Subject	Regulatory act	M_1
1	Permissible sound level	Directive 70/157/EEC	$G+W_0$
2	Emissions (Euro 5 and 6) light duty vehicles/access to information	Regulation (EC) No 715/2007	$G+W_1$
3	Fuel tanks/rear protective devices	Directive 70/221/EEC	$X+W_2$
3A	Prevention of fire risks (liquid fuel tanks)	Regulation (EC) No 661/2009 UNECE Regulation No 34	$X+W_2$
3B	Rear underrun protective devices (RUPDs) and their installation; rear underrun protection (RUP)	Regulation (EC) No 661/2009 UNECE Regulation No 58	X
4	Rear registration plate space	Directive 70/222/EEC	X
4A	Space for mounting and fixing rear registration plates	Regulation (EC) No 661/2009 Regulation (EU) No 1003/2010	X
5	Steering effort	Directive 70/311/EEC	G
5A	Steering equipment	Regulation (EC) No 661/2009 UNECE Regulation No 79	G
6	Door latches and hinges	Directive 70/387/EEC	X

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6A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X
6B	Door latches and door retention components	Regulation (EC) No 661/2009 UNECE Regulation No 11	X
7	Audible warning	Directive 70/388/EEC	X
7A	Audible warning devices and signals	Regulation (EC) No 661/2009 UNECE Regulation No 28	X
8	Indirect vision devices	Directive 2003/97/EC	X
8A	Devices for indirect vision and their installation	Regulation (EC) No 661/2009 UNECE Regulation No 46	X
9	Braking	Directive 71/320/EEC	G
9B	Braking of passenger cars	Regulation (EC) No 661/2009 UNECE Regulation No 13-H	$G+A_1$
10	Radio interference (electromagnetic compatibility)	Directive 72/245/EEC	X
10A	Electromagnetic compatibility	Regulation (EC) No 661/2009 UNECE Regulation No 10	X
12	Interior fittings	Directive 74/60/EEC	G+C
12A	Interior fittings	Regulation (EC) No 661/2009 UNECE Regulation No 21	G+C
13	Anti-theft and immobiliser	Directive 74/61/EEC	X
13B	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 116	X
14	Protective steering	Directive 74/297/EEC	G
14A	Protection of the driver against the steering mechanism in the event of impact	Regulation (EC) No 661/2009 UNECE Regulation No 12	G
15	Seat strength	Directive 74/408/EEC	$G+W_3$
15A	Seats, their anchorages and any head restraints	Regulation (EC) No 661/2009 UNECE Regulation No 17	$G+W_3$
16	Exterior projections	Directive 74/483/EEC	$G+W_4$

16A	External projections	Regulation (EC) No 661/2009 UNECE Regulation No 26	$G+W_4$
17	Speedometer and reverse gear	Directive 75/443/EEC	X
17A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X
17B	Speedometer equipment including its installation	Regulation (EC) No 661/2009 UNECE Regulation No 39	X
18	Statutory plates	Directive 76/114/EEC	X
18A	Manufacturer's statutory plate and vehicle identification number	Regulation (EC) No 661/2009 Regulation (EU) No 19/ 2011	X
19	Seat belt anchorages	Directive 76/115/EEC	$X+W_5$
19A	Safety-belt anchorages, Isofix anchorages systems and Isofix top tether anchorages	Regulation (EC) No 661/2009 UNECE Regulation No 14	$X+W_5$
20	Installation of lighting and light signalling devices	Directive 76/756/EEC	X
20A	Installation of lighting and light-signalling devices on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 48	X
21	Retro reflectors	Directive 76/757/EEC	X
21A	Retro-reflecting devices for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 3	X
22	End-outline, front-position (side), rear-position (side), stop, side marker, daytime running lamps	Directive 76/758/EEC	X
22A	Front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 7	X
22B	Daytime running lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 87	X
22C	Side-marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 91	X
23	Direction indicators	Directive 76/759/EEC	X

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23A	Direction indicators for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 6	X
24	Rear registration plate lamps	Directive 76/760/EEC	X
24A	Illumination of rear-registration plates of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 4	X
25	Headlamps (including bulbs)	Directive 76/761/EEC	X
25A	Power-driven vehicle's sealed-beam headlamps (SB) emitting an European asymmetrical passing beam or a driving beam or both	Regulation (EC) No 661/2009 UNECE Regulation No 31	X
25B	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 37	X
25C	Motor vehicle headlamps equipped with gas-discharge light sources	Regulation (EC) No 661/2009 UNECE Regulation No 98	X
25D	Gas-discharge light sources for use in approved gas-discharge lamp units of power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 99	X
25E	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules	Regulation (EC) No 661/2009 UNECE Regulation No 112	X
25F	Adaptive front-lighting systems (AFS) for motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 123	X
26	Front fog lamps	Directive 76/762/EEC	X
26A	Power-driven vehicle front fog lamps	Regulation (EC) No 661/2009 UNECE Regulation No 19	X
27	Towing hooks	Directive 77/389/EEC	E
27A	Towing device	Regulation (EC) No 661/2009 Regulation (EU) No 1005/2010	E
28	Rear fog lamps	Directive 77/538/EEC	X
28A	Rear fog lamps for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 38	X

29	Reversing lamps	Directive 77/539/EEC	X
29A	Reversing lights for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 23	X
30	Parking lamps	Directive 77/540/EEC	X
30A	Parking lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 77	X
31	Seat belts and restraint systems	Directive 77/541/EEC	$X+W_6$
31A	Safety-belts, restraint systems, child restraint systems and Isofix child restraint systems	Regulation (EC) No 661/2009 UNECE Regulation No 16	$X+W_6$
32	Forward vision	Directive 77/649/EEC	G
32A	Forward field of vision	Regulation (EC) No 661/2009 UNECE Regulation No 125	G
33	Identification of controls, tell-tales and indicators	Directive 78/316/EEC	X
33A	Location and identification of hand controls, tell-tales and indicators	Regulation (EC) No 661/2009 UNECE Regulation No 121	X
34	Defrost/demist	Directive 78/317/EEC	G (^{5})
34A	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009 Regulation (EU) No 672/2010	G(^{5})
35	Wash/wipe	Directive 78/318/EEC	G(^{6})
35A	Windscreen wiper and washer systems	Regulation (EC) No 661/2009 Regulation (EU) No 1008/2010	G(^{6})
36	Heating systems	Directive 2001/56/EC	X
36A	Heating systems	Regulation (EC) No 661/2009 UNECE Regulation No 122	X
37	Wheel guards	Directive 78/549/EEC	G
37A	Wheel guards	Regulation (EC) No 661/2009 Regulation (EU) No 1009/2010	G
38	Head restraints	Directive 78/932/EEC	X

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38A	Head restraints (headrests), whether or not incorporated in vehicle seats	Regulation (EC) No 661/2009 UNECE Regulation No 25	X
41	Emissions (Euro IV and V) heavy duty vehicles.	Directive 2005/55/EC	$X+W_1$ ([8])
41A	Emissions (Euro VI) heavy duty vehicles/access to information	Regulation (EC) No 595/2009	$X+W_1$ ([9])
44	Masses and dimensions (cars)	Directive 92/21/EEC	$X+W_8$
44A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012	$X+W_8$
45	Safety glazing	Directive 92/22/EEC	G
45A	Safety glazing materials and their installation on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 43	G
46	Tyres	Directive 92/23/EEC	X
46A	Installation of tyres	Regulation (EC) No 661/2009 Regulation (EU) No 458/2011	X
46B	Pneumatic tyres for motor vehicles and their trailers (Class C1)	Regulation (EC) No 661/2009 UNECE Regulation No 30	X
46D	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (Classes C1, C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 117	X
46E	Temporary-use spare unit, run-flat tyres/system and tyre pressure monitoring system	Regulation (EC) No 661/2009 UNECE Regulation No 64	G([9A])
50	Couplings	Directive 94/20/EC	X([10])
50A	Mechanical coupling components of combinations of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 55	X([10])
53	Frontal impact	Directive 96/79/EC	N/A
53A	Protection of occupants in the event of a frontal collision	Regulation (EC) No 661/2009 UNECE Regulation No 94	N/A
54	Side impact	Directive 96/27/EC	N/A
54A	Protection of occupants in the event of lateral collision	Regulation (EC) No 661/2009 UNECE Regulation No 95	N/A

58	Pedestrian protection	Regulation (EC) No 78/2009	G
59	Recyclability	Directive 2005/64/EC	N/A
61	Air-conditioning systems	Directive 2006/40/EC	G
62	Hydrogen system	Regulation (EC) No 79/2009	X
63	General Safety	Regulation (EC) No 661/2009	X([15])
64	Gear shift indicators	Regulation (EC) No 661/2009 Regulation (EU) No 65/2012	G
67	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 67	X
68	Vehicle alarm systems (VAS)	Regulation (EC) No 661/2009 UNECE Regulation No 97	X
69	Electric safety	Regulation (EC) No 661/2009 UNECE Regulation No 100	X
70	Specific components for CNG and their installation on motor vehicules	Regulation (EC) No 661/2009 UNECE Regulation No 110	X

Additional requirements for testing the wheelchair tie down and occupant restraint system

Note:

The following sections 1. and either section 2. or 3. shall apply.

0. Definitions

0.1. Surrogate wheelchair (SWC) is a rigid, re-usable test wheelchair, as defined in section 3 of ISO 10542-1:2012.

0.2. Point P is a representation of the position of the wheelchair occupant's hip when seated in the SWC, as defined in section 3 of ISO 10542-1:2012.

1. General requirements

1.1. Each wheelchair location shall be provided with anchorages to which a wheelchair tie-down and occupant restraint system (WTORS) shall be fitted.

1.2. The wheelchair occupant’s lower belt anchorages shall be located in accordance with UNECE Regulation 14-07, paragraph 5.4.2.2, relative to Point P on the SWC when placed in the travelling position designated by the manufacturer. The upper actual anchorage (s) shall be located at least 1 100 mm above the horizontal plane passing through the points of contact between the rear tyres of the SWC and the vehicle floor. This condition shall still be satisfied after the test carried out according to paragraph 2. below.

1.3. An assessment shall be made of the WTORS occupant belt to ensure compliance with the provisions of UNECE Regulation 16-06 paragraphs 8.2.2 to 8.2.2.4 and 8.3.1 to 8.3.4.

1.4. The minimum number of ISOFIX child seat anchorages need not to be provided. In the case of a multi-stage approval where an ISOFIX anchorage system has been affected by the conversion, the system shall either be re-tested or the anchorages shall be rendered unusable. In the latter case the ISOFIX labels shall be removed and appropriate information given to the vehicle purchaser.

2. Static in-vehicle testing

2.1. Wheelchair occupant restraint anchorages

2.1.1. The wheelchair occupant restraint anchorages shall resist the static forces prescribed for occupant restraint anchorages in UNECE Regulation 14-07 simultaneously with the static forces applied to the wheelchair tie-down anchorages as specified in 2.2 below.

2.2. Wheelchair tie-down anchorages

The wheelchair tie-down anchorages shall resist the following forces, for at least 0.2 seconds, applied via the SWC (or a suitable surrogate wheelchair having a wheelbase, seat height and tie-down attachment points in accordance with the specification for the SWC), at a height of 300 +/– 100 mm from the surface on which the SWC rests:

2.2.1. In the case of a forward-facing wheelchair, a simultaneous force, coincident with the force applied to the occupant restraint anchorages, of 24,5 kN and

2.2.2. a second test applying a static force of 8,2 kN directed towards the rear of the vehicle.

2.2.3. In the case of a rearward-facing wheelchair, a simultaneous force, coincident with the force applied to the occupant restraint anchorages, of 8,2 kN and

2.2.4. a second test applying a static force of 24,5 kN directed towards the front of the vehicle.

2.3. Components of the system

2.3.1. All components of the WTORS shall meet the relevant requirements of ISO 10542-1:2012. However, the dynamic test specified in Annex A and paragraphs 5.2.2 and 5.2.3 of ISO 10542-1:2012 shall be carried out on the complete WTORS using the vehicle anchorage geometry instead of the test geometry specified in Annex A of ISO 10542-1:2012. This may be carried out within the vehicle structure or on a surrogate structure representative of the vehicle's WTORS anchorage geometry. The location of each anchorage shall lie within the tolerance provided for in point 7.7.1 of UNECE Regulation No 16-06.

2.3.2. Where the occupant restraint part of the WTORS is approved according to UNECE Regulation No 16-06, it shall be subject to the dynamic test of the complete WTORS specified in paragraph 2.3.1, but the requirements of Paragraphs 5.1, 5.3 and 5.4 of ISO10542-1:2012 shall be considered to have been met.

3. Dynamic in-vehicle testing

3.1. The full assembly of the WTORS system shall be tested by an in-vehicle dynamic test in line with paragraphs 5.2.2 and 5.2.3 and Annex A of ISO 10542-1:2012, testing all components/anchorages simultaneously, using a vehicle body-in-white or representative structure.

3.2. The component parts of the WTORS shall meet the relevant requirements of ISO10542-1:2012 paragraphs 5.1, 5.3 and 5.4. These requirements shall be deemed to have been met in respect of the occupant restraint if it is approved according to UNECE Regulation No 16-06.

Appendix 4

Other Special Purpose Vehicles (including special group, multi-equipment carrier and trailer Caravans)

The requirements of Annex IV shall be fulfilled to the greatest extent: Application of the exemptions is only permitted if the manufacturer demonstrates to the satisfaction of the approval authority that the vehicle, due to the special function, cannot meet all the requirements.

Item	Subject	Reference to regulatory act	M_2	M_3	N_1	N_2	N_3	O_1	O_2	O_3	O_4
1	Permissible sound level	Directive 70/157/EEC	H	H	H	H	H				
2	Emissions (Euro 5 and 6) light duty vehicles/ access to information	Regulation (EC) No 715/2007	Q([1])		Q+V_1 ([1])	Q+V_1 ([1])					
3	Fuel tanks/rear protective devices	Directive 70/221/EEC	F ([2])	F ([2])	F ([2])	F ([2])	F ([2])	X	X	X	X
3A	Prevention of fire risks (liquid fuel tanks)	Regulation (EC) No 661/2009 UNECE Regulation No 34	F	F	F	F	F	X	X	X	X
3B	Rear underrun protective devices (RUPDs) and their installation; rear underrun protection (RUP)	Regulation (EC) No 661/2009 UNECE Regulation No 58	X	X	A	A	A	X	X	X	X
4	Rear registration plate space	Directive 70/222/EEC	A+R	A+R	A+R	A+R	A+R	A+R	A+R	A+R	A+R
4A	Space for mounting and fixing rear registration plates	Regulation (EC) No 661/2009 Regulation (EU) No 1003/2010	A+R	A+R	A+R	A+R	A+R	A+R	A+R	A+R	A+R
5	Steering effort	Directive 70/311/EEC	X	X	X	X	X	X	X	X	X
5A	Steering equipment	Regulation (EC) No 661/2009 UNECE Regulation No 79	X	X	X	X	X	X	X	X	X
6	Door latches and hinges	Directive 70/387/EEC			B	B	B				
6A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X	X	B	B	B				
6B	Door latches and door retention components	Regulation (EC) No 661/2009 UNECE Regulation No 11			B						

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7	Audible warning	Directive 70/388/EEC	X	X	X	X	X				
7A	Audible warning devices and signals	Regulation (EC) No 661/2009 UNECE Regulation No 28	X	X	X	X	X				
8	Indirect vision devices	Directive 2003/97/EC	X	X	X	X	X				
8A	Devices for indirect vision and their installation	Regulation (EC) No 661/2009 UNECE Regulation No 46	X	X	X	X	X				
9	Braking	Directive 71/320/EEC	X	X	X	X	X	X	X	X	X
9A	Braking of vehicles and trailers	Regulation (EC) No 661/2009 UNECE Regulation No 13	X ([3])	X ([3])	X ([3])	X+U_1 ([3])	X+U_1 ([3])	X	X	X ([3])	X ([3])
9B	Braking of passenger cars	Regulation (EC) No 661/2009 UNECE Regulation No 13-H			X ([4])						
10	Radio interference (electromagnetic compatibility)	Directive 72/245/EEC	X	X	X	X	X	X	X	X	X
10A	Electromagnetic compatibility	Regulation (EC) No 661/2009 UNECE Regulation No 10	X	X	X	X	X	X	X	X	X
13	Anti-theft and immobiliser	Directive 74/61/EEC	X	X	X	X	X				
13A	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 18	X ([4A])	X ([4A])		X ([4A])	X ([4A])				
13B	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 116			X						
14	Protective steering	Directive 74/297/EEC			X						
14A	Protection of the driver against the steering mechanism in the event of impact	Regulation (EC) No 661/2009 UNECE Regulation No 12			X						
15	Seat strength	Directive 74/408/EEC	D	D	D	D	D				

15A	Seats, their anchorages and any head restraints	Regulation (EC) No 661/2009 UNECE Regulation No 17	D ([4B])	D ([4B])	D	D	D				
15B	Seats of large passenger vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 80	D	D							
17	Speedometer and reverse gear	Directive 75/443/EEC	X	X	X	X	X				
17A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X	X	X	X	X				
17B	Speedometer equipment including its installation	Regulation (EC) No 661/2009 UNECE Regulation No 39	X	X	X	X	X				
18	Statutory plates	Directive 76/114/EEC	X	X	X	X	X	X	X	X	X
18A	Manufacturer's statutory plate and vehicle identification number	Regulation (EC) No 661/2009 Regulation (EU) No 19/2011	X	X	X	X	X	X	X	X	X
19	Seat belt anchorages	Directive 76/115/EEC	D	D	D	D	D				
19A	Safety-belt anchorages, Isofix anchorages systems and Isofix top tether anchorages	Regulation (EC) No 661/2009 UNECE Regulation No 14	D	D	D	D	D				
20	Installation of lighting and light signalling devices	Directive 76/756/EEC	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N
20A	Installation of lighting and light-signalling devices on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 48	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N	A+N
21	Retro reflectors	Directive 76/757/EEC	X	X	X	X	X	X	X	X	X
21A	Retro-reflecting devices for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 3	X	X	X	X	X	X	X	X	X
22	End-outline, front-position (side), rear-position (side), stop, side marker, daytime running lamps	Directive 76/758/EEC	X	X	X	X	X	X	X	X	X

22A	Front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 7	X	X	X	X	X	X	X	X	X
22B	Daytime running lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 87	X	X	X	X	X				
22C	Side-marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 91	X	X	X	X	X	X	X	X	X
23	Direction indicators	Directive 76/759/EEC	X	X	X	X	X	X	X	X	X
23A	Direction indicators for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 6	X	X	X	X	X	X	X	X	X
24	Rear registration plate lamps	Directive 76/760/EEC	X	X	X	X	X	X	X	X	X
24A	Illumination of rear-registration plates of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 4	X	X	X	X	X	X	X	X	X
25	Headlamps (including bulbs)	Directive 76/761/EEC	X	X	X	X	X				
25A	Power-driven vehicle's sealed-beam headlamps (SB) emitting an European asymmetrical passing beam or a driving beam or both	Regulation (EC) No 661/2009 UNECE Regulation No 31	X	X	X	X	X				
25B	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 37	X	X	X	X	X	X	X	X	X
25C	Motor vehicle headlamps equipped with gas-discharge light sources	Regulation (EC) No 661/2009 UNECE Regulation No 98	X	X	X	X	X				
25D	Gas-discharge light sources for use in approved gas-discharge lamp units of power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 99	X	X	X	X	X				

25E	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules	Regulation (EC) No 661/2009 UNECE Regulation No 112	X	X	X	X	X				
25F	Adaptive front-lighting systems (AFS) for motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 123	X	X	X	X	X				
26	Front fog lamps	Directive 76/762/EEC	X	X	X	X	X				
26A	Power-driven vehicle front fog lamps	Regulation (EC) No 661/2009 UNECE Regulation No 19	X	X	X	X	X				
27	Towing hooks	Directive 77/389/EEC	A	A	A	A	A				
27A	Towing device	Regulation (EC) No 661/2009 Regulation (EU) No 1005/2010	A	A	A	A	A				
28	Rear fog lamps	Directive 77/538/EEC	X	X	X	X	X	X	X	X	X
28A	Rear fog lamps for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 38	X	X	X	X	X	X	X	X	X
29	Reversing lamps	Directive 77/539/EEC	X	X	X	X	X	X	X	X	X
29A	Reversing lights for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 23	X	X	X	X	X	X	X	X	X
30	Parking lamps	Directive 77/540/EEC	X	X	X	X	X				
30A	Parking lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 77	X	X	X	X	X				
31	Seat belts and restraint systems	Directive 77/541/EEC	D	D	D	D	D				
31A	Safety-belts, restraint systems, child restraint systems and Isofix child restraint systems	Regulation (EC) No 661/2009 UNECE Regulation No 16	D	D	D	D	D				

33	Identification of controls, tell-tales and indicators	Directive 78/316/EEC	X	X	X	X	X				
33A	Location and identification of hand controls, tell-tales and indicators	Regulation (EC) No 661/2009 UNECE Regulation No 121	X	X	X	X	X				
34	Defrost/demist	Directive 78/317/EEC	(5)	(5)	(5)	(5)	(5)				
34A	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009 Regulation (EU) No 672/2010	(5)	(5)	(5)	(5)	(5)				
35	Wash/wipe	Directive 78/318/EEC	(6)	(6)	(6)	(6)	(6)				
35A	Windscreen wiper and washer systems	Regulation (EC) No 661/2009 Regulation (EU) No 1008/2010	(6)	(6)	(6)	(6)	(6)				
36	Heating systems	Directive 2001/56/EC	X	X	X	X	X	X	X	X	X
36A	Heating systems	Regulation (EC) No 661/2009 UNECE Regulation No 122	X	X	X	X	X	X	X	X	X
38A	Head restraints (headrests), whether or not incorporated in vehicle seats	Regulation (EC) No 661/2009 UNECE Regulation No 25	X								
41	Emissions (Euro IV and V) heavy duty vehicles.	Directive 2005/55/EC	H (8)	H	H (8)	H (8)	H				
41A	Emissions (Euro VI) heavy duty vehicles/ access to information	Regulation (EC) No 595/2009	H (9)	H	H (9)	H (9)	H				
42	Lateral protection	Directive 89/297/EEC				X	X			X	X
42A	Lateral protection of goods vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 73				X	X			X	X
43	Spray-suppression systems	Directive 91/226/EEC			X	X	X	X	X	X	X
43A	Spray suppression systems	Regulation (EC) No 661/2009 Regulation (EU) No 109/2011			X	X	X	X	X	X	X
45	Safety glazing	Directive 92/22/EEC	J	J	J	J	J	J	J	J	J

45A	Safety glazing materials and their installation on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 43	J	J	J	J	J	J	J	J	J
46	Tyres	Directive 92/23/EEC	X	X	X	X	X	X	X	X	X
46A	Installation of tyres	Regulation (EC) No 661/2009 Regulation (EU) No 458/2011	X	X	X	X	X	X	X	X	X
46B	Pneumatic tyres for motor vehicles and their trailers (Class C1)	Regulation (EC) No 661/2009 UNECE Regulation No 30			X			X	X		
46C	Pneumatic tyres for commercial vehicles and their trailers (Classes C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 54	X	X	X	X	X			X	X
46D	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (Classes C1, C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 117	X	X	X	X	X	X	X	X	X
46E	Temporary-use spare unit, run-flat tyres/system and tyre pressure monitoring system	Regulation (EC) No 661/2009 UNECE Regulation No 64			X ([9A])						
47	Speed limitation devices	Directive 92/24/EEC	X	X		X	X				
47A	Speed limitation of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 89	X	X		X	X				
48	Masses and dimensions (other than vehicles referred to in item 44)	Directive 97/27/EC	X	X	X	X	X	X	X	X	X
48A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012	X	X	X	X	X	X	X	X	X
49	External projections of cabs	Directive 92/114/EEC			X	X	X				
49A	Commercial vehicles with regard to their external projections forward of the cab's rear panel	Regulation (EC) No 661/2009 UNECE Regulation No 61			X	X	X				

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50	Couplings	Directive 94/20/EC	X (10)	X (10)	X (10)	X (10)	X (10)	X	X	X	X
50A	Mechanical coupling components of combinations of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 55	X (10)	X (10)	X (10)	X (10)	X (10)	X	X	X	X
50B	Close-coupling device (CCD); fitting of an approved type of CCD	Regulation (EC) No 661/2009 UNECE Regulation No 102				X (10)	X (10)			X (10)	X (10)
51	Flammability	Directive 95/28/EC		X							
51A	Burning behaviour of materials used in the interior construction of certain categories of motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 118		X							
52	Buses and coaches	Directive 2001/85/EC	X	X							
52A	M_2 and M_3 vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 107	X	X							
52B	Strength of the superstructure of large passenger vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 66	X	X							
54	Side impact	Directive 96/27/EC			A						
54A	Protection of occupants in the event of lateral collision	Regulation (EC) No 661/2009 UNECE Regulation No 95			A						
56	Vehicles intended for the transport of dangerous goods	Directive 98/91/EC			X (13)	X (13)	X (13)	X (13)	X (13)	X (13)	X (13)
56A	Vehicles for the carriage of dangerous goods	Regulation (EC) No 661/2009 UNECE Regulation No 105			X (13)	X (13)	X (13)	X (13)	X (13)	X (13)	X (13)
57	Front underrun protection	Directive 2000/40/EC				X	X				
57A	Front underrun protective devices (FUPDs) and their installation; front underrun protection (FUP)	Regulation (EC) No 661/2009 UNECE Regulation No 93				X	X				
58	Pedestrian protection	Regulation (EC) No 78/2009			N/A (2)						

59	Recyclability	Directive 2005/64/EC			N/A		—				
61	Air-conditioning systems	Directive 2006/40/EC			X ([14])						
62	Hydrogen system	Regulation (EC) No 79/2009	X	X	X	X	X				
63	General Safety	Regulation (EC) No 661/2009	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])	X ([15])
65	Advanced emergency braking system	Regulation (EC) No 661/2009 Regulation (EU) No 347/2012	N/A	N/A		N/A	N/A				
66	Lane departure warning system	Regulation (EC) No 661/2009 Regulation (EU) No 351/2012	N/A	N/A		N/A	N/A				
67	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 67	X	X	X	X	X				
68	Vehicle alarm systems (VAS)	Regulation (EC) No 661/2009 UNECE Regulation No 97			X						
69	Electric safety	Regulation (EC) No 661/2009 UNECE Regulation No 100	X	X	X	X	X				
70	Specific components for CNG and their installation on motor vehicules	Regulation (EC) No 661/2009 UNECE Regulation No 110	X	X	X	X	X				

Appendix 5

Mobile Cranes

Item	Subject	Reference to regulatory act	N_3
1	Permissible sound level	Directive 70/157/EEC	$T+Z_1$
3	Fuel tanks/rear protective devices	Directive 70/221/EEC	X ([2])
3A	Prevention of fire risks (liquid fuel tanks)	Regulation (EC) No 661/2009 UNECE Regulation No 34	X

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3B	Rear underrun protective devices (RUPDs) and their installation; rear underrun protection (RUP)	Regulation (EC) No 661/2009 UNECE Regulation No 58	A
4	Rear registration plate space	Directive 70/222/EEC	X
4A	Space for mounting and fixing rear registration plates	Regulation (EC) No 661/2009 Regulation (EU) No 1003/2010	X
5	Steering effort	Directive 70/311/EEC	X Crab steering allowed
5A	Steering equipment	Regulation (EC) No 661/2009 UNECE Regulation No 79	X Crab steering allowed
6	Door latches and hinges	Directive 70/387/EEC	A
6A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	A
7	Audible warning	Directive 70/388/EEC	X
7A	Audible warning devices and signals	Regulation (EC) No 661/2009 UNECE Regulation No 28	X
8	Indirect vision devices	Directive 2003/97/EC	A
8A	Devices for indirect vision and their installation	Regulation (EC) No 661/2009 UNECE Regulation No 46	X
9	Braking	Directive 71/320/EEC	U
9A	Braking of vehicles and trailers	Regulation (EC) No 661/2009 UNECE Regulation No 13	U ([3])
10	Radio interference (electromagnetic compatibility)	Directive 72/245/EEC	X
10A	Electromagnetic compatibility	Regulation (EC) No 661/2009 UNECE Regulation No 10	X
13	Anti-theft and immobiliser	Directive 74/61/EEC	X

13A	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 18	X ([4A])
15	Seat strength	Directive 74/408/EEC	D
15A	Seats, their anchorages and any head restraints	Regulation (EC) No 661/2009 UNECE Regulation No 17	X
17	Speedometer and reverse gear	Directive 75/443/EEC	X
17A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X
17B	Speedometer equipment including its installation	Regulation (EC) No 661/2009 UNECE Regulation No 39	X
18	Statutory plates	Directive 76/114/EEC	X
18A	Manufacturer's statutory plate and vehicle identification number	Regulation (EC) No 661/2009 Regulation (EU) No 19/2011	X
19	Seat belt anchorages	Directive 76/115/EEC	D
19A	Safety-belt anchorages, Isofix anchorages systems and Isofix top tether anchorages	Regulation (EC) No 661/2009 UNECE Regulation No 14	X
20	Installation of lighting and light signalling devices	Directive 76/756/EEC	A+Y
20A	Installation of lighting and light-signalling devices on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 48	A+Y
21	Retro reflectors	Directive 76/757/EEC	X
21A	Retro-reflecting devices for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 3	X
22	End-outline, front-position (side), rear-position (side), stop, side marker, daytime running lamps	Directive 76/758/EEC	X
22A	Front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 7	X

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22B	Daytime running lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 87	X
22C	Side-marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 91	X
23	Direction indicators	Directive 76/759/ EEC	X
23A	Direction indicators for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 6	X
24	Rear registration plate lamps	Directive 76/760/ EEC	X
24A	Illumination of rear-registration plates of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 4	X
25	Headlamps (including bulbs)	Directive 76/761/ EEC	X
25A	Power-driven vehicle’s sealed-beam headlamps (SB) emitting an European asymmetrical passing beam or a driving beam or both	Regulation (EC) No 661/2009 UNECE Regulation No 31	X
25B	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 37	X
25C	Motor vehicle headlamps equipped with gas-discharge light sources	Regulation (EC) No 661/2009 UNECE Regulation No 98	X
25D	Gas-discharge light sources for use in approved gas-discharge lamp units of power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 99	X
25E	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules	Regulation (EC) No 661/2009 UNECE Regulation No 112	X
25F	Adaptive front-lighting systems (AFS) for motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 123	X
26	Front fog lamps	Directive 76/762/ EEC	X

26A	Power-driven vehicle front fog lamps	Regulation (EC) No 661/2009 UNECE Regulation No 19	X
27	Towing hooks	Directive 77/389/EEC	A
27A	Towing device	Regulation (EC) No 661/2009 Regulation (EU) No 1005/2010	A
28	Rear fog lamps	Directive 77/538/EEC	X
28A	Rear fog lamps for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 38	X
29	Reversing lamps	Directive 77/539/EEC	X
29A	Reversing lights for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 23	X
30	Parking lamps	Directive 77/540/EEC	X
30A	Parking lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 77	X
31	Seat belts and restraint systems	Directive 77/541/EEC	D
31A	Safety-belts, restraint systems, child restraint systems and Isofix child restraint systems	Regulation (EC) No 661/2009 UNECE Regulation No 16	X
33	Identification of controls, tell-tales and indicators	Directive 78/316/EEC	X
33A	Location and identification of hand controls, tell-tales and indicators	Regulation (EC) No 661/2009 UNECE Regulation No 121	X
34	Defrost/demist	Directive 78/317/EEC	([5])
34A	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009 Regulation (EU) No 672/2010	([5])
35	Wash/wipe	Directive 78/318/EEC	([6])

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35A	Windscreen wiper and washer systems	Regulation (EC) No 661/2009 Regulation (EU) No 1008/2010	([6])
36	Heating systems	Directive 2001/56/EC	X
36A	Heating systems	Regulation (EC) No 661/2009 UNECE Regulation No 122	X
41	Emissions (Euro IV and V) heavy duty vehicles.	Directive 2005/55/EC	V
41A	Emissions (Euro VI) heavy duty vehicles/access to information	Regulation (EC) No 595/2009	V
42	Lateral protection	Directive 89/297/EEC	X
42A	Lateral protection of goods vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 73	A
43	Spray-suppression systems	Directive 91/226/EEC	X
43A	Spray suppression systems	Regulation (EC) No 661/2009 Regulation (EU) No 109/2011	Z_1
45	Safety glazing	Directive 92/22/EEC	J
45A	Safety glazing materials and their installation on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 43	J
46	Tyres	Directive 92/23/EEC	X
46A	Installation of tyres	Regulation (EC) No 661/2009 Regulation (EU) No 458/2011	X
46C	Pneumatic tyres for commercial vehicles and their trailers (Classes C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 54	X
46D	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (Classes C1, C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 117	X
47	Speed limitation devices	Directive 92/24/EEC	X
47A	Speed limitation of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 89	X

48	Masses and dimensions (other than vehicles referred to in item 44)	Directive 97/27/EC	X
48A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012	A
49	External projections of cabs	Directive 92/114/EEC	X
49A	Commercial vehicles with regard to their external projections forward of the cab's rear panel	Regulation (EC) No 661/2009 UNECE Regulation No 61	A
50	Couplings	Directive 94/20/EC	X ([10])
50A	Mechanical coupling components of combinations of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 55	X ([10])
50B	Close-coupling device (CCD); fitting of an approved type of CCD	Regulation (EC) No 661/2009 UNECE Regulation No 102	X ([10])
57	Front underrun protection	Directive 2000/40/EC	Z_1
57A	Front underrun protective devices (FUPDs) and their installation; front underrun protection (FUP)	Regulation (EC) No 661/2009 UNECE Regulation No 93	X
62	Hydrogen system	Regulation (EC) No 79/2009	X
63	General Safety	Regulation (EC) No 661/2009	X ([15])
65	Advanced emergency braking system	Regulation (EC) No 661/2009 Regulation (EU) No 347/2012	N/A ([16])
66	Lane departure warning system	Regulation (EC) No 661/2009 Regulation (EU) No 351/2012	N/A ([17])
67	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 67	X
69	Electric safety	Regulation (EC) No 661/2009 UNECE Regulation No 100	X

70	Specific components for CNG and their installation on motor vehicules	Regulation (EC) No 661/2009 UNECE Regulation No 110	X

Appendix 6

Exceptional load transport vehicles

Item	Subject	Reference to regulatory act	N_3	O_4
1	Permissible sound level	Directive 70/157/EEC	T	
3	Fuel tanks/rear protective devices	Directive 70/221/EEC	X ([2])	X
3A	Prevention of fire risks (liquid fuel tanks)	Regulation (EC) No 661/2009 UNECE Regulation No 34	X	X
3B	Rear underrun protective devices (RUPDs) and their installation; rear underrun protection (RUP)	Regulation (EC) No 661/2009 UNECE Regulation No 58	A	A
4	Rear registration plate space	Directive 70/222/EEC	X	A+R
4A	Space for mounting and fixing rear registration plates	Regulation (EC) No 661/2009 Regulation (EU) No 1003/2010	X	A+R
5	Steering effort	Directive 70/311/EEC	X Crab steering allowed	X
5A	Steering equipment	Regulation (EC) No 661/2009 UNECE Regulation No 79	X Crab steering allowed	X
6	Door latches and hinges	Directive 70/387/EEC	X	
6A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X	
7	Audible warning	Directive 70/388/EEC	X	
7A	Audible warning devices and signals	Regulation (EC) No 661/2009 UNECE Regulation No 28	X	
8	Indirect vision devices	Directive 2003/97/EC	X	
8A	Devices for indirect vision and their installation	Regulation (EC) No 661/2009 UNECE Regulation No 46	X	
9	Braking	Directive 71/320/EEC	U	X

9A	Braking of vehicles and trailers	Regulation (EC) No 661/2009 UNECE Regulation No 13	U ([3])	X ([3])
10	Radio interference (electromagnetic compatibility)	Directive 72/245/EEC	X	X
10A	Electromagnetic compatibility	Regulation (EC) No 661/2009 UNECE Regulation No 10	X	X
13	Anti-theft and immobiliser	Directive 74/61/EEC	X	
13A	Protection of motor vehicles against unauthorised use	Regulation (EC) No 661/2009 UNECE Regulation No 18	X ([4A])	
15	Seat strength	Directive 74/408/EEC	X	
15A	Seats, their anchorages and any head restraints	Regulation (EC) No 661/2009 UNECE Regulation No 17	X	
17	Speedometer and reverse gear	Directive 75/443/EEC	X	
17A	Vehicle access and manoeuvrability	Regulation (EC) No 661/2009 Regulation (EU) No 130/2012	X	
17B	Speedometer equipment including its installation	Regulation (EC) No 661/2009 UNECE Regulation No 39	X	
18	Statutory plates	Directive 76/114/EEC	X	X
18A	Manufacturer’s statutory plate and vehicle identification number	Regulation (EC) No 661/2009 Regulation (EU) No 19/2011	X	X
19	Seat belt anchorages	Directive 76/115/EEC	X	
19A	Safety-belt anchorages, Isofix anchorages systems and Isofix top tether anchorages	Regulation (EC) No 661/2009 UNECE Regulation No 14	X	
20	Installation of lighting and light signalling devices	Directive 76/756/EEC	X	A+N
20A	Installation of lighting and light-signalling devices on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 48	X	A+N
21	Retro reflectors	Directive 76/757/EEC	X	X
21A	Retro-reflecting devices for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 3	X	X

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22	End-outline, front-position (side), rear-position (side), stop, side marker, daytime running lamps	Directive 76/758/EEC	X	X
22A	Front and rear position lamps, stop-lamps and end-outline marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 7	X	X
22B	Daytime running lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 87	X	
22C	Side-marker lamps for motor vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 91	X	X
23	Direction indicators	Directive 76/759/EEC	X	X
23A	Direction indicators for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 6	X	X
24	Rear registration plate lamps	Directive 76/760/EEC	X	X
24A	Illumination of rear-registration plates of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 4	X	X
25	Headlamps (including bulbs)	Directive 76/761/EEC	X	
25A	Power-driven vehicle’s sealed-beam headlamps (SB) emitting an European asymmetrical passing beam or a driving beam or both	Regulation (EC) No 661/2009 UNECE Regulation No 31	X	
25B	Filament lamps for use in approved lamp units of power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 37	X	X
25C	Motor vehicle headlamps equipped with gas-discharge light sources	Regulation (EC) No 661/2009 UNECE Regulation No 98	X	
25D	Gas-discharge light sources for use in approved gas-discharge lamp units of power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 99	X	
25E	Motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or LED modules	Regulation (EC) No 661/2009 UNECE Regulation No 112	X	
25F	Adaptive front-lighting systems (AFS) for motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 123	X	
26	Front fog lamps	Directive 76/762/EEC	X	

26A	Power-driven vehicle front fog lamps	Regulation (EC) No 661/2009 UNECE Regulation No 19	X	
27	Towing hooks	Directive 77/389/EEC	A	
27A	Towing device	Regulation (EC) No 661/2009 Regulation (EU) No 1005/2010	A	
28	Rear fog lamps	Directive 77/538/EEC	X	X
28A	Rear fog lamps for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 38	X	X
29	Reversing lamps	Directive 77/539/EEC	X	X
29A	Reversing lights for power-driven vehicles and their trailers	Regulation (EC) No 661/2009 UNECE Regulation No 23	X	X
30	Parking lamps	Directive 77/540/EEC	X	
30A	Parking lamps for power-driven vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 77	X	
31	Seat belts and restraint systems	Directive 77/541/EEC	X	
31A	Safety-belts, restraint systems, child restraint systems and Isofix child restraint systems	Regulation (EC) No 661/2009 UNECE Regulation No 16	X	
33	Identification of controls, tell-tales and indicators	Directive 78/316/EEC	X	
33A	Location and identification of hand controls, tell-tales and indicators	Regulation (EC) No 661/2009 UNECE Regulation No 121	X	
34	Defrost/demist	Directive 78/317/EEC	([5])	
34A	Windscreen defrosting and demisting systems	Regulation (EC) No 661/2009 Regulation (EU) No 672/2010	([5])	
35	Wash/wipe	Directive 78/318/EEC	([6])	
35A	Windscreen wiper and washer systems	Regulation (EC) No 661/2009 Regulation (EU) No 1008/2010	([6])	
36	Heating systems	Directive 2001/56/EC	X	
36A	Heating systems	Regulation (EC) No 661/2009 UNECE Regulation No 122	X	

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41	Emissions (Euro IV and V) heavy duty vehicles.	Directive 2005/55/EC	X ([8])	
41A	Emissions (Euro VI) heavy duty vehicles/access to information	Regulation (EC) No 595/2009	X ([9])	
42	Lateral protection	Directive 89/297/EEC	X	A
42A	Lateral protection of goods vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 73	X	A
43	Spray-suppression systems	Directive 91/226/EEC	X	A
43A	Spray suppression systems	Regulation (EC) No 661/2009 Regulation (EU) No 109/2011	X	A
45	Safety glazing	Directive 92/22/EEC	X	
45A	Safety glazing materials and their installation on vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 43	X	
46	Tyres	Directive 92/23/EEC	X	I
46A	Installation of tyres	Regulation (EC) No 661/2009 Regulation (EU) No 458/2011	X	I
46C	Pneumatic tyres for commercial vehicles and their trailers (Classes C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 54	X	I
46D	Tyre rolling sound emissions, adhesion on wet surfaces and rolling resistance (Classes C1, C2 and C3)	Regulation (EC) No 661/2009 UNECE Regulation No 117	X	I
47	Speed limitation devices	Directive 92/24/EEC	X	
47A	Speed limitation of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 89	X	
48	Masses and dimensions (other than vehicles referred to in item 44)	Directive 97/27/EC	X	X
48A	Masses and dimensions	Regulation (EC) No 661/2009 Regulation (EU) No 1230/2012	A	A
49	External projections of cabs	Directive 92/114/EEC	A	
49A	Commercial vehicles with regard to their external projections forward of the cab’s rear panel	Regulation (EC) No 661/2009 UNECE Regulation No 61	A	
50	Couplings	Directive 94/20/EC	X ([10])	X

50A	Mechanical coupling components of combinations of vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 55	X([10])	X
50B	Close-coupling device (CCD); fitting of an approved type of CCD	Regulation (EC) No 661/2009 UNECE Regulation No 102	X([10])	X([10])
56	Vehicles intended for the transport of dangerous goods	Directive 98/91/EC	X ([13])	X([13])
56A	Vehicles for the carriage of dangerous goods	Regulation (EC) No 661/2009 UNECE Regulation No 105	X([13])	X([13])
57	Front underrun protection	Directive 2000/40/EC	A	
57A	Front underrun protective devices (FUPDs) and their installation; front underrun protection (FUP)	Regulation (EC) No 661/2009 UNECE Regulation No 93	A	
62	Hydrogen system	Regulation (EC) No 79/2009	X	
63	General Safety	Regulation (EC) No 661/2009	X ([15])	X([15])
65	Advanced emergency braking system	Regulation (EC) No 661/2009 Regulation (EU) No 347/2012	N/A ([16])	
66	Lane departure warning system	Regulation (EC) No 661/2009 Regulation (EU) No 351/2012	N/A ([17])	
67	Specific components for liquefied petroleum gases (LPG) and their installation on motor vehicles	Regulation (EC) No 661/2009 UNECE Regulation No 67	X	
69	Electric safety	Regulation (EC) No 661/2009 UNECE Regulation No 100	X	
70	Specific components for CNG and their installation on motor vehicules	Regulation (EC) No 661/2009 UNECE Regulation No 110	X	

Meaning of notes:

X The requirements of the relevant act are applicable. The series of amendments of the UNECE Regulations which applies on a compulsory basis are listed in Annex IV to Regulation (EC) No 661/2009. Series of amendments adopted subsequently are accepted as an alternative. Member States may grant extensions to existing type-approvals granted according to the former EU Directives repealed by Regulation (EC) 661/2009 under the conditions fixed by Article 13(14) of Regulation (EC) 661/2009.

N/A This regulatory act is not applicable to this vehicle (no requirements).

B 4144

(1) For vehicles with a reference mass not exceeding 2 610 kg. At the manufacturer's request, may apply to vehicles with a reference mass not exceeding 2 840 kg. With regard to Access to information, for other parts (e.g. living compartment) than the base vehicle, it is sufficient that the manufacturer provide access to repair and maintenance information in a readily accessible and prompt manner.

(2) In case of vehicles equipped with a LPG or CNG installation, a vehicle type-approval in accordance with UNECE Regulation No 67 or UNECE Regulation No 110 is required.

(3) The fitting of an ESC system is required in accordance with Article 12 of Regulation (EC) No 661/2009. The implementation dates set out in Annex V to Regulation (EC) No 661/2009 apply. In accordance with UNECE Regulation 13, the fitting of an electronic stability control ('ESC') system is not required for special purpose vehicles of categories M_2, M_3, N_2 and N_3 and for vehicles for exceptional load transport and trailers with areas for standing passengers. N_1 vehicles may be approved according to UNECE Regulation 13 or UNECE Regulation 13-H.

(4) The fitting of an ESC system is required in accordance with Article 12 of Regulation (EC) No 661/2009. Therefore, the requirements set out in Part A of Annex 9 to UNECE Regulation No 13-H shall be complied with for the purposes of EC type-approval of new types of vehicles as well as for the registration, sale and entry into service of new vehicles. The implementation dates set out in Article 13 of Regulation (EC) No 661/2009 apply. N_1 vehicles may be approved according to UNECE Regulation 13 or UNECE Regulation 13-H.

(4A) If fitted, the protective device shall fulfill the requirements of UNECE Regulation No 18.

(4B) This Regulation applies to seats not falling within the scope of UNECE Regulation No 80.
For other options, see Article 2 of Regulation (EC) No 595/2009.

(5) Vehicles of categories other than M_1 do not need to fully comply with act but shall be fitted with a suitable windscreen defrosting and demisting device.

(6) Vehicles of categories other than M_1 do not need to fully comply with act but shall be fitted with a suitable windscreen washing and wiping devices.

(8) For vehicles with a reference mass exceeding 2 610 kg and which did not benefit from the possibility offered in note (1).

(9) For vehicles with a reference mass exceeding 2 610 kg which are not type-approved (at the manufacturer's request and provided their reference mass does not exceed 2 840 kg) under Regulation (EC) No 715/2007. For other parts than the base vehicle, it is sufficient that the manufacturer provide access to repair and maintenance information in a readily accessible and prompt manner

(9A) Applies only where such vehicles are fitted with equipment covered by UNECE Regulation No 64. Tyre pressure monitoring system for M_1 vehicles applies on a compulsory basis in accordance with Article 9(2) of Regulation (EC) No 661/2009.

(10) Applies only to vehicles equipped with coupling(s).

(11) Applies to vehicles with a technically permissible maximum laden mass not exceeding 2,5 tonnes.

(12) Only applicable to vehicles where the "Seating Reference Point ('R' point)" of the lowest seat is not more than 700 mm above the ground level.

(13) Applies only when the manufacturer applies for type-approval of vehicles intended for the transport of dangerous goods.

(14) Applies only for vehicles of category N_1, class I (reference mass ≤ 1 305 kg)(15)At the request of the manufacturer, a type-approval may be granted under this item, as an alternative to obtaining type-approvals under each individual item covered by Regulation (EC) No 661/2009.

(16) The fitting of an Advanced emergency braking system is not required for special purpose vehicles in accordance with Article 1 of Regulation (EU) No 347/2012.

(17) The fitting of a Lane departure warning system is not required for special purpose vehicles in accordance with Article 1 of Regulation (EU) No 351/2012.

A The requirements shall be fulfilled to the greatest extent. The type-approval authority may only grant exemption(s) if the manufacturer demonstrates that the vehicle cannot meet the requirements due to its special purpose. The exemptions granted shall be described on the vehicle type-approval certificate and the certificate of conformity (remark –entry 52).

A_1 The fitting of ESC is not mandatory. In the case of multi-stage approvals, where the modifications made at a particular stage are likely to affect the function of the base vehicle's ESC system, the manufacturer may either disable the system or demonstrate that the vehicle has not been rendered unsafe or unstable. This may be demonstrated, e.g., by performing rapid double lane-change manoeuvres in each direction at 80 km/h with sufficient severity to cause intervention by the ESC

system. These interventions shall be well-controlled and shall act to improve stability of the vehicle. The Technical Service shall have the right to request further testing if deemed necessary.

B Application limited to doors giving access to the seats designated for normal use when the vehicle is travelling on the road and where the distance between the R point of the seat and the average plane of the door surface, measured perpendicular to the longitudinal medium plane of the vehicle, does not exceed 500 mm.

C Application limited to that part of the vehicle in front of the rearmost seat designated for normal use when the vehicle is travelling on the road and also limited to the head impact zone as defined in the legal act.

D Application limited to seats designated for normal use when the vehicle is travelling on the road. Seats which are not designated for use when the vehicle is travelling on the road shall be clearly identified to users either by means of a pictogram or a sign with an appropriate text. The luggage retention requirements of UNECE Regulations No. 17 shall not apply.

E Front only.

F Modification to the routing and length of the refuelling duct and re-positioning of the tank inboard is permissible.

G In case of multi-stage approval, requirements according to the category of the base/incomplete vehicle (e.g. the chassis of which was used to build the special purpose vehicle) may also be used.

H Modification of exhaust system length after the last silencer not exceeding 2 m is permissible without any further test.

I Tyres shall be type-approved according to the requirements of UNECE Regulation No. 54 even if the design speed of the vehicle is less than 80 km/h. The load capacity may be adjusted in relation to the maximum design speed of the trailer in agreement with the tyre manufacturer.

J For all window glazing other than driver's cab glazing (windshield and side glasses), the material may be either of safety glass or rigid plastic glazing.

K Additional panic alarm devices permitted.

L Application limited to seats designated for normal use when the vehicle is travelling on the road. At least anchorages for lap belts are required in the rear seating positions. Seats which are not designated for use when the vehicle is travelling on the road shall be clearly identified to users either by means of a pictogram or a sign with an appropriate text. ISOFIX is not required on Ambulances and hearses.

M Application limited to seats designated for normal use when the vehicle is travelling on the road. At least lap belts are required in all rear seating positions. Seats which are not designated for use when the vehicle is travelling on the road shall be clearly identified to users either by means of a pictogram or a sign with an appropriate text. ISOFIX is not required on Ambulances and hearses.

N Provided that all mandatory lighting devices are installed and that the geometric visibility is not affected.

Q Modification of exhaust system length after the last silencer not exceeding 2 m is permissible without any further test. An EC type-approval issued to the most representative base vehicle remains valid irrespective of change in the reference weight.

R Provided that the registration plates of all Member States can be mounted and remain visible.

S The light transmission factor is at least 60 %, also the "A" pillar obstruction angle is not more than 10^{o}.

T Test to be performed only with the complete/completed vehicle. The vehicle can be tested according to Directive 70/157/EEC. Concerning item 5.2.2.1 of Annex I to Directive 70/157/EEC the following limit values are applicable:

(a) 81 dB(A) for vehicles with an engine power of less than 75 kW;

(b) 83 dB(A) for vehicles with an engine power of not less than 75 kW but less than 150 kW;

(c) 84 dB(A) for vehicles with an engine power of not less than 150 kW.

U Test to be performed only with the complete/completed vehicle. Vehicles up to 4 axles shall comply with all the requirements laid down by regulatory act. Derogations are admitted for vehicles having more than 4 axles, provided that:

— they are justified by the particular construction

— all the braking performances, related to parking, service and secondary braking laid down by the regulatory act are fulfilled.

U_1 ABS is not mandatory for vehicles with hydrostatic drive.

V As alternative, Directive 97/68/EC may also be applied.

V_1 For vehicles with hydrostatic drive, Directive 97/68/EC may also be applied as alternative.

W_0 Modification of exhaust system length is permitted without any further test, provided the back pressure is similar. If a new test is required, an extra 2dB(A) above the applicable limit shall be allowed.

W_1 Requirements shall be complied with, but modification in the exhaust system is permitted without any further test of tailpipe emissions and CO_2/fuel consumption provided the emission control devices including particulate filters (if any) are not affected. No new evaporative test shall be required on the modified vehicle on condition that the evaporative control devices are kept as fitted by the manufacturer of the base vehicle.

An EC type approval issued to the most representative base vehicle remains valid irrespective of change in the reference mass.

W_2 Modification of the routing, length of the refuelling duct, fuel hoses and fuel vapour pipes is permitted without further test. Re-location of the original fuel tank is permitted provided all requirements are met. However further testing according to Annex 5 to UNECE Regulation No. 34 shall not be required.

W_3 The longitudinal plane of the intended wheelchair-travelling position shall be parallel to the longitudinal plane of the vehicle.

Appropriate information shall be made available to the vehicle owner that, in order to be capable of withstanding the forces transmitted by the tie-down mechanism during the various driving conditions, a wheelchair with a structure meeting the relevant part of ISO 7176-19:2008 is recommended.

Appropriate adaptations may be made to the seats of the vehicle without further testing provided if it can be demonstrated to the technical service that their anchorages, mechanisms and head restraints provide the same level of performance.

The luggage retention requirements of UNECE Regulation No. 17 shall not apply.

W_4 Compliance with the legal act(s) shall be required for the boarding aids when in the resting position.

W_5 Each wheelchair location shall be provided with anchorages to which a wheelchair tie-down and occupant restraint system (WTORS) shall be fitted, and which comply with the additional provisions of Appendix 3.

W_6 Each wheelchair location shall be provided with occupant restraint belt that comply with the additional provisions of Appendix 3

When, due to the conversion, anchorage points for the safety belts need to be moved outside the tolerance provided for in point 7.7.1 of UNECE Regulation No.16-06, the technical service shall check whether the alteration constitutes a worst case or not. If that is the case, the test provided for in point 7.7.1. of UNECE Regulation No.16-06 shall be performed. Extension to the EC type-approval does not need to be issued. The test may be performed using components that have not undergone the conditioning test prescribed by UNECE Regulation No.16-06.

W_8 For the purposes of calculations, the mass of the wheel-chair including the user shall be assumed to be 160 kg. The mass shall be concentrated at the P point of the surrogate wheelchair in its travelling position declared by the manufacturer.

Any limitation in the passenger capacity resulting from the use of wheelchair(s) shall be recorded in the owner's handbook, on side 2 of the EU type-approval certificate and in the certificate of conformity (remark section).

Y Provided that all mandatory lighting devices are installed.

Z The requirements on the protrusion of open windows shall not apply to the living compartment.Z_1

Mobile cranes with more than six axles are considered to be off-road vehicles (N3G) when at least three axles are driven and provided they meet the provisions of Annex II, point 4.3 b) ii) and iii) as well as point 4.3 c).

SCHEDULE XII
[Regulations 17(4), 18(6) and 21(1)]

SMALL SERIES AND END-OF-SERIES LIMITS

A. SMALL SERIES LIMITS

1.) The number of units of one type of vehicle to be registered, sold or put into service per year in the European Union pursuant to Article 22 may not exceed the figures shown below for the vehicle category in question:

Category	Units
M_1	1 000
M_2, M_3	0
N_1	1 000
N_2, N_3	0
O_1, O_2	0
O_3, O_4	0

2. The number of units of one type of vehicle to be registered, sold or put into service per year in one Member State pursuant to Article 23 shall be determined by that Member State but shall not exceed the figures shown below for the vehicle category in question:

Category	Units
M_1	100
M_2, M_3	250
N_1	500 until 31October 2016 250 from 1 November 2016
N_2, N_3	250
O_1, O_2	500
O_3, O_4	250

3. The number of units of one type of vehicle to be registered, sold or put into service per year in one Member State for the purposes of Article 6(2) of Commission Regulation (EU) No 1230/2012 shall be determined by each Member State but shall not exceed the figures shown below for the vehicle category in question:

Category	Units
M_2, M_3	1 000
N_2, N_3	1 200
O_3, O_4	2 000

B. END-OF-SERIES LIMITS

The maximum number of complete and completed vehicles put into service in each Member State under the procedure "End-of-Series" shall be restricted in one of the following ways to be chosen by the Member State:

1. The maximum number of vehicles of one or more types may not exceed 10 %, in the case of category M_1, and may not exceed 30 % of the vehicles of all types concerned put into service in that Member State during the previous year, in the case of all other categories.

   Should 10 %, respectively 30 %, be less than 100 vehicles, then the Member State may allow the putting into service of a maximum of 100 vehicles.

2. Vehicles of any one type shall be restricted to those for which a valid certificate of conformity was issued on or after the date of manufacture and which remained valid for at least three months after its date of issue but subsequently lost its validity due to the entry into force of a regulatory act.'

(1) Technically permissible maximum laden mass

(2) Any frontal protection system supplied with the vehicle shall comply with the requirements of Regulation (EC) No 78/2009 and shall be provided with a type-approval number and shall be marked accordingly.

B 4148

SCHEDULE XIII

[Regulation 25(2), (3) and (9)

LIST OF PARTS OR EQUIPMENT WHICH ARE CAPABLE OF POSING A SIGNIFICANT RISK TO THE CORRECT FUNCTIONING OF SYSTEMS THAT ARE ESSENTIAL FOR THE SAFETY OF THE VEHICLE OR ITS ENVIRONMENTAL PERFORMANCE, THEIR PERFORMANCE REQUIREMENTS, APPROPRIATE TEST PROCEDURES, MARKING AND PACKAGING PROVISIONS

I. Parts or equipment having a significant impact on vehicle safety

Item No	Item description	Performance requirement	Test procedure	Marking requirement	Packaging requirements
1	[.....]				
2					
3					

II. Parts or equipment having a significant impact on the environmental performance of the vehicle

Item No	Item description	Performance requirement	Test procedure	Marking requirement	Packaging requirements
1	[.....]				
2					
3					

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SCHEDULE XIV

[Regulation 8(7)]

LIST OF EC TYPE-APPROVALS ISSUED PURSUANT TO REGULATORY ACTS

Type-approval authority stamp

List number:

Covering the period: ..... to .....

The following information in respect of each EC type-approval granted, refused or withdrawn in the above mentioned period must be given:

Manufacturer:

EC type-approval number:

Reason for extension (where applicable):

Make:

Type:

Date of issue:

First date of issue (in the case of extensions):

B 4150

SCHEDULE XV

[Regulation 32(6)]

REGULATORY ACTS FOR WHICH A MANUFACTURER MAY BE DESIGNATED AS TECHNICAL SERVICE

0. Objectives and scope

0.1. This Annex lays down the list of the regulatory acts for which a manufacturer may be designated as technical service in accordance with Article 41(6).

0.2. It also includes appropriate provisions concerning the designation of a manufacturer as technical service, to be applied in the framework of the type-approval of vehicles, components and separate technical units concerned by Part I of Schedule IV.

0.3. However it does not apply to manufacturers which apply for small series approval in accordance with Article 22.

1. Appointment of a manufacturer as technical service

1.1. A manufacturer appointed as technical service is a manufacturer who has been designated by the approval authority as a testing laboratory to carry out approval tests on its behalf in the meaning of point 31 of Article 3.

In accordance with Article 41(6), a manufacturer may only be designated as technical service for category A activities.

1.2. The expression "to carry out test" is not restricted to the measurement of performances but covers also the registration of test results and the submission of a report to the approval authority including the relevant conclusions.

It covers the checking of compliance with those provisions which do not necessarily require measurement. This is the case for the assessment of the design against legislative requirements.

For example, "check compliance of the location of the fuel tank in a vehicle with the provisions of point 5.10 of Annex I to Directive 70/221/EEC" has to be understood as part of "to carry out test".

2. List of regulatory acts and restrictions

	Regulatory act reference	Subject
4.	Directive 70/222/EEC	Rear registration plate space
7.	Directive 70/388/EEC	Audible warning
18.	Directive 76/114/EEC	Plates (statutory)
20.	Directive 76/756/EEC	Installation of lighting and light signalling devices
27.	Directive 77/389/EEC	Towing hooks
33.	Directive 78/316/EEC	Identification of controls, tell-tales and indicators
34.	Directive 78/317/EEC	Defrost/demist
35.	Directive 78/318/EEC	Wash/wipe
36.	Directive 2001/56/EC	Heating systems Except the provisions in Annex VIII relating to installation requirements of LPG heating systems in vehicle.
37.	Directive 78/549/EEC	Wheel guards
44.	Directive 92/21/EEC	Masses and dimensions (cars)

45.	Directive 92/22/EEC	Safety glazing Restricted to the provisions included in Annex 21 to UNECE Regulation 43.
46.	Directive 92/23/EEC	Tyres
48.	Directive 97/27/EC	Masses and dimensions (other than vehicles referred to in item 44)
49.	Directive 92/114/EEC	External projections of cabs
50.	Directive 94/20/EC	Couplings Restricted to the provisions included in Schedule V (up to and including Section 8) and VII.
61.	Directive 2006/40/EC	Air-conditioning system

Appendix

Designation of a manufacturer as technical service

1. General

1.1. The designation and notification of a manufacturer as technical service shall be made in accordance with the provisions of Articles 41, 42 and 43 as well with the practical measures included in this Appendix.

1.2. The manufacturer shall be accredited under Standard EN ISO/IEC 17025:2005 - General requirements for the competence of testing and calibration laboratories.

2. Subcontracting

2.1. In accordance with the provisions of Article 41(6) first subparagraph, a manufacturer may nominate a subcontractor for performing tests on his behalf.

By subcontractor it shall be understood:

a) either a subsidiary which is entrusted with testing activities by the manufacturer inside its own organisation; or

b) a third party under contract with the manufacturer to perform test activities.

2.2. Turning to the services of a subcontractor does not remove the obligation for the manufacturer to comply with the provisions of Article 41 in particular those concerning the skills of the technical services and compliance with Standard EN ISO/IEC 17025:2005.

2.3. Section 1 of Schedule XV shall apply to the subcontractor.

3. Test report

Test reports shall be drafted in accordance with the general requirements set out in Appendix 3 of Schedule V to Directive 2007/46/EC.

B 4152

SCHEDULE XVI

[Regulation 11(3) and (4)]

SPECIFIC CONDITIONS REQUIRED FROM VIRTUAL TESTING METHODS AND REGULATORY ACTS FOR WHICH VIRTUAL TESTING METHODS MAY BE USED BY A MANUFACTURER OR A TECHNICAL SERVICE

0. Objectives and scope

This Schedule lays down appropriate provisions concerning virtual testing in accordance with Article 11(3).

It shall not apply to the second subparagraph of Article 11(2).

1. List of regulatory acts

No	Regulatory act reference	Subject
3.	Directive 70/221/EEC	Fuel tanks/rear protective devices
6.	Directive 70/387/EEC	Door latches and hinges
8.	Directive 2003/97/EC	Indirect vision devices
12.	Directive 74/60/EEC	Interior fittings
16.	Directive 74/483/EEC	Exterior projections
20.	Directive 76/756/EEC	Installation of lighting and light signalling devices
27.	Directive 77/389/EEC	Towing hooks
32.	Directive 77/649/EEC	Forward vision
35.	Directive 78/318/EEC	Wash/wipe
37.	Directive 78/549/EEC	Wheel guards
42.	Directive 89/297/EEC	Lateral protection
44.	Regulation (EU) No. 1230/2012	
49.	Directive 92/114/EEC	External projections of cabs
50.	Directive 94/20/EC	Couplings
52.	Directive 2001/85/EC	Buses and coaches
57.	Directive 2000/40/EC	Front underrun protection

Appendix 1

General conditions required from virtual testing methods

1. Virtual test pattern

The following scheme shall be used as basis structure for describing and conducting virtual testing:

(a) purpose;

(b) structure model;

(c) boundary conditions;

(d) load assumptions;

(e) calculation;

(f) assessment;

(g) documentation.

2. Fundamentals of computer simulation and calculation

2.1. Mathematical model

The mathematical model shall be supplied by the manufacturer. It shall reflect the complexity of the structure of the vehicle, system and components to be tested in relation to the requirements of the regulatory act and its boundary conditions.

The same provisions shall apply mutatis mutandis for testing components or technical units independently from the vehicle.

2.2. Validation process of the mathematical model

The mathematical model shall be validated in comparison with the actual test conditions.

To that effect a physical test shall be conducted for the purposes of comparing the results obtained when using the mathematical model with the results of a physical test. Comparability of the test results shall be proven. A validation report shall be drafted by the manufacturer or by the technical service and submitted to the approval authority.

Any change made to the mathematical model or to the software likely to invalidate the validation report shall be brought to the attention of the approval authority which may require that a new validation process is conducted.

The flow chart of the validation process is shown in Appendix 3.

2.3. Documentation

The data and auxiliary tools used for the simulation and calculation shall be made available by the manufacturer and be documented in a suitable way.

3. Tools and support

At the request of the technical service, the manufacturer shall supply or provide access to the necessary tools including appropriate software.

In addition he shall provide appropriate support to the technical service.

Providing access and support to a technical service does not remove any obligation of the technical service regarding the skills of its personnel, the payment of licence rights and respect of confidentiality.

Appendix 2

Specific conditions concerning virtual testing methods

1. List of regulatory acts

Regulatory act reference	Annex and paragraph	Specific conditions
3. Directive 70/221/EEC	Annex II (Rear underrun protection) Point 5.4.5.	
6. Directive 70/387/EEC	Annex II Point 4.3.	
8. Directive 2003/97/EC	Annex III. All provisions in Sections 3, 4 and 5.	Prescribed fields of vision of rear-view mirrors.
12. Directive 74/60/EEC	Annex I. All provisions in Section 5 (Specifications).	Measurement of all radii of curvature and of all projections except for those requirements where a force has to be applied in order to check compliance with the provisions.
	Annex II	Determination of the head-impact zone.

16.	Directive 74/483/EEC	Annex I All provisions in Section 5 (General specifications) and Section 6 (Particular specifications).	Measurement of all radii of curvature and of all projections except for those requirements where a force has to be applied in order to check compliance with the provisions.
20.	Directive 76/756/EEC	Section 6 (Individual specifications) of UNECE Regulation No 48.	The test drive provided for in Point 6.22.9.2.2 shall be performed on a real vehicle.
		Provisions of Annexes 4, 5 and 6 to UNECE Regulation No 48.	
27.	Directive 77/389/EEC	Annex II, Section 2	
32.	Directive 77/649/EEC	Section 5 (Specifications) of Annex I.	
35.	Directive 78/318/EEC	Annex I Point 5.1.2.	Measurement of the swept area only.
37.	Directive 78/549/EEC	Section 2 (Special requirements) of Annex I	Resistance under a horizontal force and deflection measurement.
42.	Directive 89/297/EEC	Annex I Point 2.8.	
44.	Commission Regulation (EU) No 1230/2012	Sections 7 and 8 of Part B of Annex I	(a)Check of compliance with the manoeuvrabi-lity requirements including manoeuvrability of vehicles fitted with lift or loadable axles.
		Sections 6 and 7 of Part C of Annex I	(b) Measurement of the maximum rear swing-out."
49.	Directive 92/114/EEC	Annex I All provisions in Section 4 (Specific requirements). Regarding N 1 vehicles, the provisions referred to in item 16 of this Appendix shall apply.	Measurement of all radii of curvature and of all projections except for those requirements where a force has to be applied in order to check compliance with the provisions.
50.	Directive 94/20/EC	Annex V "Requirements for mechanical coupling Devices"	All provisions of Sections 1 to 8 included.
		Annex VI Point 1.1.	Strength tests on mechanicals couplings of simple design may be replaced by virtual tests.
		Section 4 of Annex VI "Testing of mechanical coupling devices"	Points 4.5.1. (Strength test), 4.5.2. (Resistance to buckling) and 4.5.3. (Resistance to bending moment) only.

52. Directive 2001/85/EC	Annex I Point 7.4.5.	Stability test under the conditions specified in the Appendix to Annex I.
	Annex IV Strength of superstructure	Appendix 4 - Verification of strength of the superstructure by calculation.
57. Directive 2000/40/EC	Section 3 of Annex 5 to UNECE Regulation 93.	Resistance under a horizontal force and deflection measurement.

Appendix 3

Validation process

SCHEDULE XVII

[Regulation 9(2)]

PROCEDURES TO BE FOLLOWED DURING MULTI-STAGE EC TYPE-APPROVAL

1. GENERAL

1.1. The satisfactory operation of the process of multi-stage EC type-approval requires joint action by all the manufacturers concerned. To this end approval authorities must ensure, before granting first and subsequent stage approval, that suitable arrangements exist between the relevant manufacturers for the supply and interchange of documents and information such that the completed vehicle type meets the technical requirements of all the relevant regulatory acts as prescribed in Schedules IV or XI. Such information must include details of relevant system, component and separate technical unit approvals and of vehicle parts which form part of the incomplete vehicle but are not yet approved.

1.2. EC type-approvals in accordance with this Schedule are granted on the basis of the current state of completion of the vehicle type and must incorporate all approvals granted at earlier stages.

1.3. Each manufacturer in a multi-stage EC type-approval process is responsible for the approval and conformity of production of all systems, components or separate technical units manufactured by him or added by him to the previously built stage. He is not responsible for subjects which have been approved in an earlier stage except in those cases where he modifies relevant parts to an extent that the previously granted approval becomes invalid.

2. PROCEDURES

The type-approval authority must:

(a) verify that all EC type-approval certificates issued pursuant to the regulatory acts which are applicable for vehicle type-approval cover the vehicle type at its state of completion and correspond to the prescribed requirements;

(b) ensure that all the relevant data, taking account of the state of completion of the vehicle, is included in the information folder;

(c) by reference to the documentation make sure that the vehicle specification(s) and data contained in Part I of the vehicle information folder are included in the data in the information packages and in the EC type-approval certificates, in respect of the relevant regulatory acts; and in the case of a completed vehicle, where an item number in Part I of the information folder is not included in the information package of any of the regulatory acts, confirm that the relevant part of characteristic conforms to the particulars in the information folder;

(d) on a selected sample of vehicles from the type to be approved carry out or arrange to be carried out inspections of vehicle parts and systems to verify that the

vehicle(s) is/are built in accordance with the relevant data contained in the authenticated information package in respect of all relevant regulatory acts;

(e) carry out or arrange to be carried out relevant installation checks in respect of separate technical units where applicable.

3. The number of vehicles to be inspected for the purposes of paragraph 2(d) must be sufficient to permit the proper control of the various combinations to be EC type-approved according to the state of completion of the vehicle and the following criteria:

- engine,
- gearbox,
- powered axles (number, position, interconnection),
- steered axles (number and position),
- body styles,
- number of doors,
- hand of drive,
- number of seats,
- level of equipment.

4. IDENTIFICATION OF THE VEHICLE

4.1. Vehicle identification number

(a) The identification number of the base vehicle (VIN) prescribed by Directive 76/114/EEC shall be retained during all the subsequent stages of the type-approval process to ensure the 'traceability' of the process.

(b) However, at the final stage of completion, the manufacturer concerned by this stage may replace, in agreement with the approval authority, the first and second sections of the vehicle identification number by his own vehicle manufacturer code and the vehicle identification code if, and only if, the vehicle has to be registered under his own trade name. In such a case, the complete vehicle identification number of the base vehicle shall not be deleted.

4.2. Additional manufacturer's plate

At the second and subsequent stages, in addition to the statutory plate prescribed by Directive 76/114/EEC, each manufacturer must affix to the vehicle an additional plate the model of which is shown in the appendix to this Schedule. This plate must be firmly attached, in a conspicuous and readily accessible position on a part not subject to replacement in use. It must show clearly and indelibly the following information in the order listed:

- name of the manufacturer,
- Sections 1, 3 and 4 of the EC type-approval number,
- the stage of approval,
- vehicle identification number,
- maximum permissible laden mass of the vehicle ([a]),
- maximum permissible laden mass of the combination (where the vehicle is permitted to tow a trailer) ([a]),

- maximum permissible mass on each axle, listed in order from front to rear ([a]),

- in the case of a semi-trailer or centre axle trailer, the maximum permitted mass on the coupling device ([a]). Unless otherwise provided for above, the plate must comply with the requirements of Directive 76/114/EEC.

(a) Only where the value has changed during the current stage of approval.

Appendix

MODEL OF THE MANUFACTURER'S ADDITIONAL PLATE

The example below is given as a guide only.

MANUFACTURER'S NAME (stage 3)
e2*98/14*2609
Stage 3
WD9VD58D98D234560
1 500 kg
2 500 kg
1-700 kg
2-810 kg

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SCHEDULE XVIII

CERTIFICATE OF ORIGIN OF THE VEHICLE

Manufacturer's declaration of base/incomplete vehicle which is not provided with a Certificate of Conformity

I, the undersigned, hereby declare that the vehicle as specified below, has been manufactured in our own factory and that it is a newly manufactured vehicle.

0.1. Make (trade name of manufacturer):

0.2. Type of vehicle:

0.2.1. Commercial name(s):

0.3. Means of identification of type:

0.6. Vehicle identification number:

0.8. Address(es) of assembly plant(s):

Moreover, the undersigned declares that the vehicle when delivered complied with the following regulatory acts:

Subject	Regulatory act reference	Type-approval number	Member State or Contracting Party (+) granting type-approval (++)
1. Sound level			
2. Emissions			
3.			
etc.			

(+) Contracting Parties to the Revised 1958 Agreement.

(++) To be indicated if not obtainable from the type-approval numbers.

The present declaration is issued according to the provisions established in Annex XI to Directive 2007/46/EC.

(Place) (Signature) (Date)

SCHEDULE XIX

[Regulation 35(1) and (3)]

TIMETABLE FOR THE ENFORCEMENT OF THE DIRECTIVE IN RESPECT OF TYPE-APPROVAL

Categories concerned	Enforcement dates		
	New types of vehicles Optional	New types of vehicles Obligatory	Existing types of vehicles Obligatory
M_1	N.A. (*)	29 April 2009	N.A. (*)
Special-purpose vehicles of category M_1	29 April 2009	29 April 2011	29 April 2012
Incomplete and complete vehicles of category N_1	29 April 2009	29 October 2010	29 October 2011
Completed vehicles of category N_1	29 April 2009	29 October 2011	29 April 2013
Incomplete and complete vehicles of categories N_2, N_3, O_1, O_2, O_3, O_4	29 April 2009	29 October 2010	29 October 2012
Incomplete and complete vehicles of categories M_2, M_3	29 April 2009	29 April 2009 (1)	29 October 2010
Special-purpose vehicles of categories N_1, N_2, N_3, M_2, M_3, O_1, O_2, O_3, O_4	29 April 2009	29 October 2012	29 October 2014
Completed vehicles of categories N_2, N_3	29 April 2009	29 October 2012	29 October 2014
Completed vehicles of categories M_2, M_3	29 April 2009	29 April 2010 (1)	29 October 2011
Completed vehicles of categories O_1, O_2, O_3, O_4	29 April 2009	29 October 2011	29 October 2013

(*) Not applicable.

(1) For the purposes of the application of Article 45(4), this date is postponed by 12 months.

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SCHEDULE XX

CORRELATION TABLE

Directive 2007/46/EC	EC Type-Approval of Motor Vehicles and their Trailers Regulations
Article 1	Regulation 2
Article 2	Regulation 2
Article 3	Regulation 3(1), (2), (3), (5), (7), (8), (9), (10), (11), (12), (13), (14), 15), (16), (17), (18), (19), (20), (21), (23), (24), (25), (26), (27), (28), (29), (30), (31), (32), (34), (36), (37), (38), (39), (40)
Article 4	Regulation 4(1)
Article 5	Regulation 5
Article 6	Regulation 6
Article 7	Regulation 7
Article 8	Regulation 8
Article 9	Regulation 9
Article 10	Regulation 10
Article 11	Regulation 11
Article 12	Regulation 12
Article 13	Regulation 13
Article 14	Regulation 14
Article 15	Regulation 15
Article 16	Regulation 16
Articles 17	Regulation 17
Article 18	Regulation 18
Article 19	Regulation 19
Article 20(1), (2), (3), (5)	Regulation 20
Article 20(4)	-
Article 21	-
Article 22	Regulation 21
Article 23	-
Article 24	-
Article 25	-
Article 26	-
Article 27	-
Article 28	Regulation 22
Article 29(1)	Regulation 23(1)
Article 29(2), (3), (4)	-
Article 30	Regulation 24
Article 31(1), (2), (3), (5), (6), (8), (9), (10), (11), (12), (13)	Regulation 25
Article 31(4), (7)	-
Article 32	Regulation 26
Article 33	Regulation 27
Article 34(1)	Regulation 28

Article 34(2, (3), (4)	-
Article 35	Regulation 29
Article 36	-
Article 37	Regulation 30
Article 38	Regulation 31
Article 39	-
Article 40	-
Article 41	Regulation 32
Article 42	Regulation 33
Article 43	Regulation 34
Article 44	-
Article 45(1), (2), (4), (5), (6)	Regulation 35
Article 45(3)	-
Article 46	Regulation 36
Article 47	-
Article 48(1)	Regulation 37
Article 48(2)	-
Article 49	Regulation 38
Article 50	-
Annex I	Schedule I
Annex II	Schedule II
Annex III	Schedule III
Annex IV	Schedule IV
Annex V	Schedule V
Annex VI	Schedule VI
Annex VII	Schedule VII
Annex VIII	Schedule VIII
Annex IX	Schedule IX
Annex X	Schedule X
Annex XI	Schedule XI
Annex XII part A, part B	Schedule XII part A, -
Annex XIII	Schedule XIII
Annex XIV	Schedule XIV
Annex XV	Schedule XV
Annex XVI	Schedule XVI
Annex XVII	Schedule XVII
Annex XVIII	Schedule XVIII
Annex XIX	Schedule XIX
Annex XX	-
Annex XXI	Schedule XX
	Schedule XXI
	Schedule XXII

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SCHEDULE XXI

[Regulation 32(6)]

LIST OF SEPARATE DIRECTIVES/REGULATIONS AND THEIR AMENDMENTS WHICH ARE ADOPTED

Base Directive no.	**Title of Base Directive**	**Amending Directive No.**	**Official Journal reference/ Page**	**Date of Adoption (Where the effective date shall mean 1st May 2004).**	**National Requirements relevant to the particular Directive**
70/157/ EEC	Council Directive of February 6 1970 on the approximation of the laws of the member states relating to the permissible sound level and the exhaust system of motor vehicles.		L 42 p.16 23.02.197 0	The effective date	None
		73/350/EEC	L 321, p.33 22.11.197 3	The effective date	None
		77/212/EEC	L 66; p.33 12.03.197 7	The effective date	None
		81/334/EEC	L 131, p.6 18/05/ 1981	The effective date	None
		84/372/EEC	L 196, p.47 26.07.198 4	The effective date	None
		84/424/EEC	L 238, p.31 06.09.198 4	The effective date	None
		87/354/EEC	L 192; p43 11.07.198 7	The effective date	None
		89/491/EEC	L 238; p.43 15.08.198 9	The effective date	None
		92/97/EEC	L 371; p.1 19.12.199 2	The effective date	None

		96/20/EC	L 92; p.23 13.04.1996	The effective date	None
		1999/101/EC	L 334; p.41 28.12.1999	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		2007/34/EC	L. 155; p.49 15.6.2007	6th July 2008	None
		Directive [...] (2013) XXX		1 July 2013	
70/220/EEC	Council Directive of March 20 1970 on the approximation of the laws of the member states relating to measures to be taken against air pollution by gases from positive-ignition engines of motor vehicles		L 76, p.1 06.04.1970	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		74/290/EEC	L 159; p.61 15.06.1974	The effective date	None
		77/102/EEC	L 32; p.32 03.02.1977	The effective date	None
		78/665/EEC	L 223; p.48 14.08.1978	The effective date	None
		83/351/EEC	L 197; p.1 20.07.1983	The effective date	None
		88/76/EEC	L 36; p.1 09.02.1988	The effective date	None
		88/436/EEC	L 214; p.1 06.08.1988	The effective date	None

		89/458/EEC	L 226; p.1 03.08.198 9	The effective date	None
		89/491/EEC	L 238; p.43 15.08.198 9	The effective date	None
		91/441/EEC	L 242; p.1 30.08.199 1	The effective date	None
		93/59/EEC	L 186; p.21 28.07.199 3	The effective date	None
		94/12/EC	L 100; p.42 19.04.199 4	The effective date	None
		96/44/EC	L210; p.25 20.08.199 6	The effective date	None
		96/69/EC	L 282; p.64 01.11.199 6	The effective date	None
		98/77/EC	L 286; p.34 23.10.199 8	The effective date	None
		98/69/EC	L 350; p.1 28.12.199 8	The effective date	None
		1999/102/ EC	L 334; p.43 28.12.199 9	The effective date	None
		2001/1/EC	L 35; p.34 06.02.200 1	The effective	None
		2001/100/ EC	L 16; p.34 18.01.200 2	The effective date	None
		2002/80/EC	L 291; p.20	The effective date	None
		2003/76/EC	L 206; p.29	4 September 2004	None

		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
70/221/EEC	Council Directive of March 20, 1970 on the approximation of the laws of the member states relating to fuel tanks and rear underrun projection of motor vehicles and their trailers.		L 76, p.23 06.04.1970	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		79/490/EEC	L 128; p.22 26.05.1979	The effective date	None
		81/333/EEC	L 131; p.4 18/05/1981	The effective date	None
		97/19/EC	L 125; p.1 16.05.1997	The effective date	None
		2000/8/EC	L 106; p.7 03.05.2000	The effective date	None
		2006/20/EC	L48, p.16 18.2.2006	11 March 2007	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
70/222/EEC	Council Directive of March 20, 1970 on the approximation of the laws of the member states relating to the space for mounting and fixing of rear registration plates on motor vehicles and their trailers.		L 76; p.25 06.04.1970		Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

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70/311/ EEC	Council Directive of June 8 1970 on the approximation of the laws of the member states relating to the steering equipment for motor vehicles and their trailers.		L 133, p.10 18.06.1970	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		92/62/EEC	L 199, p.33 18.07.1992	The effective date	None
		1999/7/EC	L 40, p.36 13.02.1999	The effective date	None
70/387/ EEC	Council Directive of July 27, 1970 on the approximation of the laws of the member states relating to the doors of motor vehicles and their trailers.		L 176, p.5 10.08.1970	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		82/890/EEC	L 378, 31.12.1982	The effective date	None
		98/90/EEC	L 337; p.29 12.12.1998	The effective date	None
		2001/31/EC	L 130, p.33 12.05.2001	The effective date	None
70/388/ EEC	Council Directive of July 27, 1970 on the approximation of the laws of the member states relating to audible warning devices for motor vehicles.		L 176, p.12 10.08.1970	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192, p.43 11.07.1987	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None

		Directive [...] (2013) XXX		1 July 2013	
71/127/ EEC	Council Directive of March 1, 1971 on the approximation of the laws of the member states relating to the rear-view mirrors of motor vehicles.		L 68, p.1 22.03.197 1	The effective date	Directive 2003/ 97/EC shall repeal 71/127/ EEC as from 24th January 2010.
		79/795/EEC	L 239, p.1 22.09.197 9	The effective date	none
		85/205/EEC	L 90, p.1 29.03.198 5	The effective date	none
		86/562/EEC	L 327, p.49 22.11.198 6	The effective date	none
		87/354/EEC	L 192, p.43 11.07.198 7	The effective date	none
		88/321/EEC	L 147, p.77 14.06.198 8	The effective date	none
2003/97/EC	Directive 2003/97/EC of the EP and of the Council of 10 November 2003 on the approximation of the laws of Member states relating to the type-approval of devices for indirect vision and of vehicles equipped with these devices amending Directive 70/156/EEC and repealing Directive 71/127/EEC		L 25, p.1 29.01.200 4	With respect to these regulations – 1st January 2005	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		2005/27/EC	L81, 30.3.2005	The effective date	none
		2006/96/EC	L. 363; p.81 20.12.200 6	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	

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71/320/ EEC	Council Directive of July 26, 1971 on the approximation of the laws of the member states relating to the braking devices of certain categories of motor vehicles and their trailers.		L 202, p.37 06.09.1971	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		74/132/EEC	L 74, p.7 19.03.1974	The effective date	None
		75/524/EEC	L 236, p.3 08.09.1975	The effective date	None
		79/489/EEC	L 128, p.12 26.05.1979	The effective date	None
		85/647/EEC	L 380, p.1 31.12.1985	The effective date	None
		88/194/EEC	L 92, p.47 09.04.1988	The effective date	None
		91/422/EEC	L 233, p.21 22.08.1991	The effective date	None
		98/12/EC	L 81, p.1 18.03.1998	The effective date	None
		2002/78/EC	L 267, p.23 04.10.2002	The effective date	none
		2006/96/EC	L. 363; 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
72/245/ EEC	Council Directive of June 20, 1972 relating to the radio interference (electromagnetic Compatibility) of vehicles.		L 152, p.15 06.07.1972	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

		89/491/EEC	L 238, p.43 15.08.1989	The effective date	None
		95/54/EC	L 266, p.1 08.11.1995	The effective date	None
		2004/104/EC	L337 p.13 13.11.2004	1 January 2006	None
		2005/49/EC	L194, p.12 26.7.2005	1 January 2006	None
		2005/83/EC	L305, p.32 24.11.2005	1 October 2006	None
		2006/28/EC	L65, p.27 7.3.2006	1 July 2006	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		2009/19/EC	L.70; p.17 14.03.2009	1st October 2009 Provisions shall apply from 2nd October 2009	
		Directive [...] (2013) XXX		1 July 2013	
72/306/EEC	Council Directive of August 2, 1972 on the approximation of the laws of the member states relating to measures to be taken against the emission of pollutants from diesel engines for use in vehicles		L 190, p.1 20.08.1972	The effective date	None
		89/491/EEC	L 238, p.43 15.08.1989	The effective date	None
		97/20/EC	L 125, p.21 16.05.97	The effective date	None
		2005/21/EC	L61, p.25 8.3.2005	9th March 2006	None

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74/60/EEC	Council Directive of December 17, 1973 on the approximation of the laws of the member states relating to the interior fittings of motor vehicles		L 38, p.2 11.02.1974	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		78/632/EEC	L 206,, p.26 29.07.1978	The effective date	None
		2000/4/EC	L 87, p.22 08.04.2000	The effective date	None
74/61/EEC	Council Directive of December 17, 1973 on the approximation of the laws of the member states relating to devices to prevent the unauthorized use of motor vehicles.		L 38, p.22 11.02.1974	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		95/56/EEC	L 286, p1 29.11.1995	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
74/297/ EEC	Council Directive of June 4, 1974 on the approximation of the laws of the member states relating to the interior fittings of motor vehicles (the behavior of the steering mechanism in the event of an impact)		L 165 p.16 20.06.1974	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		91/662/EEC	L 366 p.1 31.12.1991	The effective date	None
74/408/ EEC	Council Directive of July 22, 1974 relating to motor vehicles with regard to the seats, their anchorages and head restraint.		L 221 p.1 12.08.1974	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

		81/577/EEC	L 209, p34 29.07.1981	The effective date	None
		96/37/EC	L 186, p.28 25.07.1996	The effective date	None
		2005/39/EC	L 255, p.143 30.9.2005	21 April 2006	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
74/483/ EEC	Council Directive of September 17, 1974 on the approximation of the laws of the member states relating to the external projections of motor vehicles.		L266, p.4 02.10.1974	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		79/488/EEC	L 128, p.1 26.05.1979	The effective date	None
		87/354/EEC	L 192 p.43 11.07.1987	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		2007/15/EC	L.75; p.21 15.3.2007	5th April 2008.	None
		Directive [...] (2013) XXX		1 July 2013	
75/443/ EEC	Council Directive of June 26, 1975 on the approximation of the laws of the member states relating to the reverse and speedometer equipment of motor vehicles.		L 196, p.1 26.07.1975	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

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		97/39/EC	L 177 p.15 05.07.1997	The effective date	None
76/114/EEC	Council Directive of December 18, 1976 on the approximation of the laws of the member states relating to statutory plates and inscriptions for motor vehicles and their trailers, and their location and method of attachment.		L 24 p.1 30.01.1976	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		78/507/EEC	L 155, p.31 13.06.1978	The effective date	None
		87/354/EEC	L 192, p.43 11.07.1987	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
76/115/EEC	Council Directive of December 18, 1975 on the approximation of the law of the member states relating to anchorages for motor vehicle safety belts.		L 24, p.6 30.01.1976	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		81/575/EEC	L 209, p.30 29.07.1981	The effective date	None
		82/318/EEC	L 139, p.9 19.05.1982	The effective date	None
		90/629/EEC	L 341, p.14 06.12.1990	The effective date	None
		96/38/EC	L 187, p.95 26.07.1996	The effective date	None

		2005/41/EC	L255, p.149 30.9.2005	21 April 2006	None
76/756/ EEC	Council Directive of July 27, 1976 on the approximation of the laws of Member States relating to the installation of lighting and light signaling devices on motor vehicles and their trailers		L 262, p.1 27.09.1976	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		80/233/EEC	L 51, p.8 25.02.1980	The effective date	None
		82/244/EEC	L 109, p.31 22.04.1982	The effective date	None
		83/276/EEC	L 151, p.47 09.06.1983	The effective date	None
		84/8/EEC	L 9, p.24 12.01.1984	The effective date	None
		89/278/EEC	L 109, p.38 20.04.1989	The effective date	None
		91/663/EEC	L 366, p.17 31.12.1991	The effective date	None
		97/28/EC	L 171, p.1 30.06.1997	The effective date	None
		2007/35/EC	L.157, p.14 19.6.2007	10th July 2008	None
		2008/89/EC	L.257, p.14 25.9.2008	16th October 2009	None

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76/757/ EEC	Council Directive of July 27, 1976 on the approximation of the laws of member states relating to retro-reflectors for motor vehicles and their trailers.		L 262, p.32 27.09.1976	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192, p.43 11.07.1987	The effective date	None
		97/29/EC	L 171, p.11 30.06.1997	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
76/758/ EEC	Council Directive of July 27, 1976 on the approximation of the laws of the member states relating to the end-outline marker lamps, front position (side) lamps, rear position (side) lamps, stop lamps, daytime, running lamps and side marker lamps for motor vehicles and their trailers.		L 262, p.54 27.09.1976	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192, p.43 11.07.1987	The effective date	None
		89/516/EEC	L 265, p.1 12.09.1989	The effective date	None
		97/30/EC	L 171, p.25 30.06.1997	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None

		Directive [...] (2013) XXX		1 July 2013	
76/759/ EEC	Council Directive of July 27, 1976 on the approximation of the laws of the member states relating to direction indicator lamps for motor vehicles and their trailers		L 262, p.71 27.09.1976	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192, p.43 11.07.1987	The effective date	None
		89/277/EEC	L 109, p25 20.04.1989	The effective date	None
		1999/15/EC	L 97, p.14 12.04.1999	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
76/760/ EEC	Council Directive of July 27, 1976 on the approximation of the laws of member states relating to the registration plate lamps for motor vehicles and their trailers.		L 262, p.85 27.09.1976	The effective date.	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192, p.43 11.07.1987	The effective date	None
		97/31/EC	L 171, p.49 30.06.1997	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None

		Directive [...] (2013) XXX		1 July 2013	
76/761/ EEC	Council Directive of July 27, 1976 on the approximation of the laws of the Member States relating to motor vehicle head lamps with function as main beam and/or dipped beam headlamps and to light sources (filament lamps and others) for use in approval lamp units of motor vehicles and of their trailers		L 262, p.96 27.09.1976	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192, p.43 11.07.1987	The effective date	None
		89/517/EEC	L 265, p.15 12.09.1989	The effective date	None
		1999/17/EC	L 97, p.45 12.04.1999	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
76/762/ EEC	Council Directive of July 27, 1976 on the approximation of the laws of the member states relating to front fog lamps for motor vehicles.		L 262, p.122 27.09.1976	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192, p.43 11.07.1987	The effective date	None
		1999/18/EC	L 97, p.82 12.04.1999	The effective date	None

		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
77/389/ EEC	Council Directive of May 17, 1977 on the approximation of the laws of the member states relating to motor vehicle towing-devices.		L 145, p.41 13.06.1977	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		96/64EC	L 258, p.26 11.10.1996	The effective date	none
77/538/ EEC	Council Directive of June 28, 1977 on the approximation of the laws of the member states relating to rear fog lamps for motor vehicles and their trailers.		L 220, p.66 29.08.1977	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192; p.43 11.07.1987	The effective date	None
		89/518/EEC	L 265; p.24 12.09.1989	The effective date	None
		1999/14/EC	L 97; p.1 12.04.1999	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
77/539/ EEC	Council Directive of June 28, 1977 on the approximation of the laws of reversing lamps for motor vehicles and their trailers.		L 220, p.60 29.08.1977	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

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		87/354/EEC	L 192; p.43 11.07.1987	The effective date	None
		97/32/EC	L 171; 30.06.1997	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
77/540/ EEC	Council Directive of June 28, 1977 on the approximation of the laws of the member states relating to parking lamps for motor vehicles.		L 220, p.83 29.08.1977	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192; p.43 11.07.1987	The effective date	None
		1999/16/EC	L 97; p.33 12.04.1999	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
77/541/ EEC	Council Directive of June 28, 1977 on the approximation of the laws of the Member States relating to safety belts and restraint systems of motor vehicles.		L 220; p.95 29.08.1977	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		81/576/EEC	L 209; p.32 29.07.1981	The effective date	None

		82/319/EEC	L 139; p.17 19.05.1982	The effective date	None
		87/354/EEC	L 192; p.43 11.07.1987	The effective date	None
		90/628/EEC	L 341; p.1 06.12.1990	The effective date	None
		96/36/EC	L 178; p.15 17.07.1996	The effective date	None
		2000/3/EC	L 53; p.1 25.02.2000	The effective date	None
		2005/40/EC	L255, p.146 30.9.2005	21 April 2006	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
77/649/ EEC	Council Directive of September 27, 1977 on the approximation of laws of the member states relating to the field of vision of motor vehicle drivers.		L. 267; p.1 19.10.1977	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		81/643/EEC	L 231; p.41 15.08.1981	The effective date	None
		88/366/EEC	L 181; p.40 12.07.1988	The effective date	None
		90/630/EEC	L 341; p.20 06.12.1990	The effective date	None

78/316/ EEC	Council Directive of December 21, 1977 on the approximation of the laws of the member states relating to the interior fittings of motor vehicles (identification of controls, tell-tales and indicators)		L 81; p.3 28.03.1978	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		93/91/EEC	L 284; p.25 19.11.1993	The effective date	None
		94/53/EC	L 299; p.26 22.11.1994	The effective date	None
78/317/ EEC	Council Directive of December 21, 1977 on the approximation of the laws of the Member States relating to the defrosting and demisting systems of glazed surfaces of motor vehicles		L 81; p.27 28.03.1978	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
78/318/ EEC	Council Directive of December 21, 1977 on the approximation of the laws of the member states relating to the wiper and wash systems of motor vehicles.		L 81, p.49 28.03.1978	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		94/68/EC	L 354; p.1 31.12.1994	The effective date	None
		2006/96/EC	L. 363; p.33 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
78/549/ EEC	Council Directive of June 12, 1978 on the approximation of the laws of the member states relating to the wheel guards of motor vehicles.		L 168; p.45 26.06.1978	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

		94/78/EC	L 354; p.10 13.12.1994	The effective date	None
78/932/EEC	Council Directive of October 16; 1978 on the approximation of the laws of the member states relating to head restraints of seats of motor vehicles.		L 325; p.1 20.11.1978	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		87/354/EEC	L 192; p.043 11.07.1987	The effective date	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
80/1268/EEC	Council Directive of December 16, 1980 relating to Carbon dioxide emissions and the fuel consumption of motor vehicles.		L 375; p.36 31.12.1980	The effective date	None
		89/491/EEC	L 238; p.43 15.08.1989	The effective date	None
		93/116/EC	L 329; p.39 30.12.1993	The effective date	None
		1999/100/EC	L 334; p.36 28.12.1999	The effective date	None
		2004/3/EC	L 49, p.36 19.02.2004	19 February 2005	None
80/1269/EEC	Council Directive of December 16, 1980 on the approximation of the laws of member states relating to the engine power of motor vehicles.		L 375; p.46 31.12.1980	The effective date	Regulation 595/2009 repeal Directive 80/1269/EEC with effect from 31 December 2013.

		88/195/EEC	L 92; p.50 09.04.1988	The effective date	None
		89/491/EEC	L 238; p.43 15.08.1989	The effective date	None
		97/21/EC	L 125; p.31 16.05.1997	The effective date	None
		1999/99/EC	L 334; p.32 28.12.1999	The effective date	None
88/77/EEC	Council Directive of December 3, 1987 on the approximation of the laws of member states relating to the measures to be taken against the emission of gaseous and particulate pollution from compression ignition engines for use in vehicles, and the emission of gaseous pollutants from positive ignition engines fueled with natural gas or liquefied petroleum gas for use in vehicles.	88/77/EEC	L 36; p.33 09.02.1988	The effective date. Repealed as from 9 November 2006	None
		91/524/EEC	L 295; p.1 25.10.2000	The effective date. Repealed as from 9 November 2006	None
		1999/96/EC	L 44; p.1 16.02.2000	The effective date. Repealed as from 9 November 2006	None
		2001/27/EC	L 107; p.10 18.04.2001	The effective date. Repealed as from 9 November 2006	None

2005/55/EC	Directive 2005/55/EC of the European Parliament and of the Council of 28 September 2005 on the approximation of the laws of the Member States relating to the measures to be taken against the emission of gaseous & particulate pollutants from compression-ignition engines for use in vehicles, and the emission of gaseous pollutants from positive-ignition engines fueled with natural gas or liquefied petroleum gas for use in vehicles	2005/55EC	L275, p.1 20.10.2005	9 November 2006	Regulation 595/2009 Repeal Directives 2005/55/EC and 2005/78/EC with effect from 31 December 2013.
		2005/78/EC	L313, p.1 29.11.2005	9 November 2006	Regulation 595/2009 Repeal Directives 2005/55/EC and 2005/78/EC with effect from 31 December 2013.
		2006/51/EC	L152, p.11 07.06.2006	9 November 2006	None
		2008/74/EC	L192, p.51 19.7.2008	3 January 2009	None
89/297/EEC	Council Directive 89/297/EEC of April 13, 1989 on the approximation of the laws of the Member States relating to the lateral protection (side guards) of certain motor vehicles and their trailers		L 124; p.1 05051989	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
91/226/EEC	Council Directive of March 27, 1991 on the approximation of the laws of the Member States relating to the spray-suppression systems of certain categories of motor vehicles and their trailers		L 103; p.5 23.04.1991	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		2010/19/EU	L.72, p.17 20.3.2010	9 April 2011	None
92/21/EEC	Council Directive of March 31, 1992 on the masses and dimensions of motor vehicles of category M_1		L 129; p.1 14.05.1992	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		95/48/EC	L 233; p.73 30.09.1995	The effective date	None
92/22/EEC	Council Directive of March 31, 1992 on safety glazing and glazing materials on motor vehicles and their trailers.		L 129; p.11 14.05.1992	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		2001/92/EC	L 291; p.24 08.11.2001	The effective date	None
92/23/EEC	Council Directive of March 31, 1992 relating to tyres for motor vehicles and their trailers and to their fitting		L 129; p.95 14.05.1992	The effective date	Regulation 661/2009 shall repeal this Directive with effect from 1 November 2017.
		2001/43/EC	L 211, p.25 04.08.2001	The effective date	None
		2005/11/EC	L46, p.42 17.02.2005	1st January 2006	None
92/24/EEC	Council Directive of March 31, 1992 relating to speed limitation devices or similar speed limitation on- board systems of certain categories of motor vehicles		L 129; p.154 14/05/1992	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

		2004/11/EC	L 44; p.19 14.02.2004	18th November 2004	None
92/114/EEC	Council Directive of December 17, 1992 relating to the external projections forward of the cab's rear panel of motor vehicles of category N		L 409; p.17 31.12.1992	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
94/20/EC	Directive of the European Parliament and of the Council of May 30, 1994 relating to the mechanical coupling devices of motor vehicles and their trailers and their attachment to those vehicles		L 195; p.1 20.07.1994	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
95/28/EC	Directive of the European Parliament and of the Council of October 24, 1995 relating to the burning behaviour of materials used in the interior construction of certain categories of motor vehicle.		L 281, p.1 23.11.1995	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
96/27/EC	Directive of the European Parliament and of the Council of May 20, 1996 on the protection of occupants of motor vehicles in the event of a side impact and amending Directive 70/156/EEC		L 169; p.1 08.07.1996	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

96/79/EC	Directive of the European Parliament and of the Council of December 16, 1996 on the protection of occupants of motor vehicles in the event of a frontal impact and amending Directive 70/156/EEC.				Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		1999/98/EC	L 009; p.14 13/01/2000	The effective date	None
97/27/EC	Directive of the European Parliament and of the Council of 22 July 1997 relating to the masses and dimensions of certain categories of motor vehicles and their trailers and amending Directive 70/156/EEC.		L 233; p.1 25.08.1997	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		2002/85/EC	L 42; p.1 13.02.2002	The effective date	None
		2003/19/EC	L 79; p.6 26.03.2003	The effective date	None
98/91/EC	Directive of the European Parliament and of the Council of December 14, 1998 relating to motor vehicles and their trailers intended for the transport of dangerous goods by road and amending Directive 70/156/EEC relating to the type approval of motor vehicles and their trailers.		L 011, p.25 16.01.1999	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.

2000/40/EC	Directive of the European Parliament and of the Council of June 26, 2000 on the approximation of the laws of the Member States relating to the front underrun protection of motor vehicles and amending Council Directive 70/156/EEC Official		L 203; p.9 10.08.2000	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		2006/96/EC	L. 363; p.33 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
2001/56/EC	Directive 2001/56/EC of the European Parliament and of the Council of September 27, 2001 relating to heating systems for motor vehicles and their trailers, amending Council Directive 70/156/EEC and repealing Council Directive 78/548/EEC.		L 292; p.21 09.11.2001	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		2004/78/EC	L 153; p.100 30/04/2004	The effective date	None
		2006/119/EC	L330, p.12 28.11.2006	30 September 2007	None
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	

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2001/85/EC	Directive 2001/85/EC Of The European Parliament and of the Council of November, 20 2001 relating to special provisions for vehicles used for the carriage of passengers comprising more than eight seats in addition to the driver's seat, and amending Directives 70/156/EEC and 97/27/EC		L 42; p.1 13/02/ 2002	The effective date	Reg 661/2009 shall repeal this Directive with effect from 1 November 2014.
		2006/96/EC	L. 363; p.81 20.12.200 6	1st January 2007	None
		Directive [...] (2013) XXX		1 July 2013	
2003/102/ EC	Directive 2003/102/EC of the European Parliament and of the Council of November, 17 2003 relating to the protection of pedestrians and other vulnerable road users before and in the event of a collision with a motor vehicle and amending Council Directive 70/156/ EEC		L 321; p.15 06.02.200 3	The effective date	Regulation 78/ 2009 repeal Directives 2003/ 102/EC and 2005/66/EC with effect from 24 November 2009.
		Commission Decision 2004/90/EC	L 31; p.21 04.02.200 4	The effective date	Not applicable
2005/64/EC	Directive 2005/64/EC of the European Parliament and of the Council of 26 October 2005 on the type-approval of motor vehicles with regard to their re usability, recyclability and recoverability and amending Council Directive 70/156/EEC		L 310; p.10 25.11.200 5	15th December 2006	none

		Directive No. 2009/1/ EC	L 9; p.31 14.1.2009	3rd Feb 2009 They provisions shall apply from 4 February 2010.	
2005/66/EC	Directive 2005/66/EC of the European Parliament and of the Council of 26 October 2005 relating to the use of frontal protection systems on motor vehicles and amending Council Directive 70/156/EEC		L 309; p.37 25.11.2005	25th August 2006	Regulation 78/ 2009 repeal Directives 2003/ 102/EC and 2005/66/EC with effect from 24 November 2009.
		2006/368/ EC	L 140; p.33 29.05.2006	26th November 2006	none
		2006/96/EC	L. 363; p.81 20.12.2006	1st January 2007	None
Regulation (EC) No. 715/2007	Regulation (EC) No 715/ 2007 of the European Parliament and of the Council of 20 June 2007 on type approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information		L171, p.1 22.6.2007	Articles 10(1), and 12 from 2 July 2007.	None
		Commission Regulation No.692/ 2008	L199, p.1 28.7.2008	31st July 2008. However, the obligations set out in Articles 4(5), 4(6), 5(3)(d) and 5(3)(e) shall apply from 1 September 2011 for the type approval of new types of vehicles and from 1 January 2014 for all new vehicles sold, registered or put into service in the Community.	

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		Commission Reg. No 195/2013	L 65, p.1 8.3.2013	1 July 2013	Amends Directive 2007/46/EC and Regulation 692/2008
		Commission Regulation No.595/2009	L188, p.1 18.07.2009	7th August 2009 It shall apply from 7 August 2009. However, Articles 8(3) and 10 shall apply from 7 August 2009 and points 1(a)(i), 1(b)(i), 2(a), 3(a)(i), 3(b)(i), 3(c)(i), 3(d)(i) and 3(e)(i) of Annex II shall apply from 31 December 2013.	Directives 80/1269/EEC, 2005/55/EC and 2005/78/EC are repealed with effect from 31 December 2013.
		Commission Regulation No. 566/2011	L158, p.1 16.06.2011	19 June 2011	
		Commission Regulation 171/2013	L55, p.9 27.2.2013	27 June 2013	Regulation 171/2013 amends Directive 2007/46/EC and Regulations No. 692/2008 and 715/2007.
		Commission Regulation 143/2013	L47, p.51 20.2.2013	1 January 2014 with the exception of Article 4(3) which is applicable as from 1 January 2013.	Regulation 143/2013 amends Directive 2007/46/EC and Commission Regulation (EC) No 692/2008 as regards the determination of Co2 emissions from vehicles submitted to multi-stage type approval.

		Commission Regulation 459/2012	L142, p.16 1.6.2012	1 June 2012	Regulation 459/2012 amends Regulation (EC) No 715/2007 and (EC) 692/2008 as regards emissions from light passenger and commercial vehicles (Euro 6)
		Commission Regulation 630/2012	L182, p.14 13.7.2012	1 August 2012	Regulation (EU) 630/2012 amends Regulation (EC) No 692/2008, as regards type approval requirements for motor vehicles fueled by hydrogen and mixtures of hydrogen and natural gas with respect to emissions, and the inclusion of specific information regarding vehicles fitted with an electric power train in the information document for the purpose of EC type approval.
2006/40/EC	Relating to emissions from air-conditioning systems in motor vehicles and amending Council Directive 70/156/EEC		L161, p.12 14.06.2006	5 January 2008.	None
		Commission Regulation No. 706/2007	L161, p.33 22.06.2007	5 January 2008.	None
		2007/37/EC	L161, p.60 22.06.2007	5 January 2008	None

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Reg. No 692/2008	Commission Regulation (EC) No 692/2008 of 18 July 2008 implementing and amending Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information		L.199 pg.1 28.7.2008	On the 3rd day following its publication	Amending Reg. 715/2007
		Reg. No. 136/2014	L.43 pg.12 13.2.2014	On the 20th day from that of its publication	Directive 2007/46/EC, Reg. 692/2008 and Reg. 582/2011
		Reg. No. 2015/45	L.9 pg.1 15.1.2015	On the 20th day from that of its publication	Directive 2007/46/EC and Reg. 692/2008
Reg. No 78/2009	COMMISSION REGULATION (EC) No 78/2009 of the European Parliament and of the Council of 14 January 2009 on the type-approval of motor vehicles with regard to the protection of pedestrians and other vulnerable road users, amending Directive 2007/46/EC and repealing Directives 2003/102/EC and 2005/66/EC		L35, p.1 4.02.2009	24 February 2009	Reg. No 78/2009 repeals Directives 2003/102/EC and 2005/66/EC with effect from 24.02.2009.
		Reg. No. 631/2009	25.07.2009 L195 p.1	15.08.2009	Implementing Reg. 78/2009
		Reg. No. 459/2011	13.05.2011 L 124 p.21	3.06.2011	Amending Annex to Reg. 631/2009 laying down rules for the implementation of Annex I to Reg. No 78/2009.

Reg. No 79/2009	Relating to, and lays down fundamental provisions on requirements for the type-approval of motor vehicles with regard to hydrogen propulsion, for the type-approval of hydrogen components and hydrogen systems and for the installation of such components and systems.		L35, p.35 4.02.2009	24 February 2011, with the exception of Article 11(3) and Article 12, which shall apply from February 2009, and Article 11(2) which shall apply from the date set therein.	None
		Reg. No. 406/2010	L.122 p.1 18.05.2010	26 April 2010	None
Reg. No 595/2009	Regulation (EC) No 595/2009 of the European Parliament and of the Council of 18 June 2009 on type-approval of motor vehicles and engines with respect to emissions from heavy duty vehicles (Euro VI) and on access to vehicle repair and maintenance information and amending Regulation EC No 715/2007 and Directive 2007/46/EC and repealing Directive 80/1269/EEC, 2005/55EC and 2005/78/EC	2007/46/EC and Reg. No 715/2007.	L.188 p.1 18.7.2009	It shall apply from 7 August 2009. However, Articles 8(3) and 10 shall apply from 7 August 2009 and points 1(a)(i), 1(b)(i), 2(a), 3(a)(i), 3(b)(i), 3(c)(i), 3(d)(i) and 3(e)(i) of Annex II shall apply from 31 December 2013.	Directives 80/1269/EEC, 2005/55/EC and 2005/78/EC are repealed with effect from 31 December 2013. Amendments to Regulation No 715/2007, and to Directive 2007/46/EC.
		Reg. No 582/2011	L. 167 p.1 25.06.2011	15 July 2011	Amends Regulation 595/2009 and Directive 2007/46/EC
		Reg. 64/2012	L. 28 p.1 31.1.2012	26 January 2012	Amends Regulation 582/2011 implementing and amending Regulation (EC) No.595/2009
		Reg.133/2014	L.47 p.1 18.2.2014	1 January 2014 with the exception of point 4 of Annex 1which apply from 1 July 2014	Amends Directive 2007/46/EC, Regulation 595/2009 and 582/2011

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Reg. No 661/2009	Regulation EC No 661/2009 of the EP and the COUNCIL of 13 July 2009 concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefore.		L.200 p.1 31.07.2009	August 2009.	Directives 70/221/EEC,70/222/EEC,70/311/EEC, 0/387/EEC, 70/388/EEC, 71/320/EEC, 72/245/EEC, 74/60/EEC, 74/61/EEC,74/297/EEC,74/408/EEC, 74/483/EEC, 75/443/EEC,76/114/EEC,76/115/EEC, 76/756/EEC, 6/757/EEC, 6/758/EEC,76/759/EEC,76/760/EEC, 76/761/EEC, 76/762/EEC, 77/389/EEC,77/538/EEC, 77/539/EEC,77/540/EEC,77/541/EEC77649/

					549/EEC, 78/932/EEC, 89/297/EEC,91/226/EEC,92/21/EC, 92/22/EEC, 92/24/EEC,92/114/EEC,94/20/EC, 95/28/EC, 96/27/EC, 96/79/EC, 97/27/EC, 98/91/EC, 2000/40/EC, 2001/56/EC, 2001/85/EC, 2003/97/EC shall be repealed with effect from 1 November 2014 Directive 92/23/EEC shall be repealed with effect from 1 November 2017 (according to Article 19 of Regulation 661/2009)
		Reg No. 407/2011	L 108 p.13 28.4.2011	1 May 2011	Inclusion of certain Regulations of the United Nations Economic Commission for Europe.
		Reg No. 458/2011	L 124 p.11 13.5.2011	2 June 2011	Implementing Regulation 661 of 2009.
		Reg No 1230/2012	L 353 p.31 21.12.2012	1 November 2012	Implementing Reg 661/2009 and amending Directive 2007/46/EC
		Reg No 65/2012	L 28 p.24 31.1.2012	13 February 2012	Implementing Reg 661/2009 and amending Directive 2007/46/EC

		Reg No 523/2012	L160 p.8 21.6.2012	10 July 2012	Reg (EU) 523/2012 amends Regulation (EC) 661/2009 as regards the inclusion of certain Regulations of the UNECE
		Reg No 351/2012	L110 p.18 24.4.2012	13 May 2012	Reg (EU) 351/2012 implements Regulation (EC) No 661/2009 as regards type-approval requirements for the installation of lane departure warning systems in motor vehicles.
		Reg No 347/2012	L109 p.1 21.4.2012	6 May 2012	Reg (EU) 347/2012 implements Regulation (EC) No 661/2009 with regards to type approval requirements for certain categories of vehicles with regards to emergency braking systems.
		Reg No 130/2012	L 43 p.6 16.2.2012	7 March 2012	Reg (EU) 130/2012 concerning type-approval requirements for motor vehicles with regards to vehicle access and manoeuvrability and implementing Regulation (EC) No 661/2009.

Reg. No 672/2010	REGULATION EU No 672/2010 of 27 July 2010 concerning type-approval requirements for windscreen defrosting an demisting systems of certain motor vehicles and implementing Regulation (EV) No 661/ 2009 of the European Parliament and of the Council concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefor		L.196 p.6 28.7.2010	August 2010	None
Reg. No 1003/2010	Commission Regulation (EU) of 8 November 2010 concerning type-approval requirements for the space for mounting and the fixing of rear registration plates on motor vehicles and their trailers and implementing Regulation (EC) No 661/ 2009 of the European Parliament and of the Council concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefore.		L.291 pg. 22 9.11.2010	29.11.2010	Reg 661 of 2009 repeals Directive 70/ 222/EEC.

Reg. No. 1005/2010	Commission Regulation (EU) No 1005/2010 of 8 November 2010 concerning type-approval requirements for motor vehicle towing devices and implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council concerning type approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefore.		L. 291 pg. 36	29.11.2010	Reg 661/2009 repeals Directive 77/389/EEC.
Reg. 1008/2010	Commission Regulation (EU) No 1008/2010 of 9 November 2010 concerning type-approval requirements for windscreen wiper and washer systems of certain motor vehicles and implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefor		L.292 pg.2 10.11.2010	30.11.2010	Regulation No. 661 of 2009 repeals Directive 78/318/EEC

Reg. No 1009/2010	Commission Regulation (EU) of 9 November 2010 concerning type-approval requirements for wheel guards of certain motor vehicles and implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefore.		L.292 pg.21 10.11.2010	30.11.2010	Reg. No 661 of 2009 repeals Directive 78/549/EEC
Reg. No 19/2011	Commission Regulation (EU) No 19/2011 of 11 January 2011 concerning type-approval requirements for the manufacturer's statutory plate and for the vehicle identification number of motor vehicles and their trailers and implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefore.		L8 pg.1 12.1.2011	1 February 2011	Reg. No 661 of 2009 repeals Directive 76/114/EEC
		Reg No. 249/2012	L82 p. 1 22.3.2012	10 April 2012	Reg (EU) No 249/2012 amends Regulation (EU) No 19/2011 as regards type approval requirements for the manufacturer's statutory plate of motor vehicles and their trailers.

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Reg. No 109/2011	Commission Regulation (EU) No 109/2011 of 27 January 2011 implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council as regards type-approval requirements for certain categories of motor vehicles and their trailers as regards spray suppression systems		L.34 pg.2 9.02.2011	28 February 2011	Regulation No 661/2009 repeals Council Directive 91/ 226/EEC.
Reg. No 183/2011	Commission Regulation (EU) No 183/2011 of 22 February 2011 amending Annexes IV and VI to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers and of systems, components and separate technical units intended for such vehicles.	2007/46/EC	L.53 pg.4 26.02.201 1	26 February 2012	
Reg. No. 582/2011	Commission Regulation (EU) No 582/2011 of 25 May 2011 implementing and amending Regulation (EC) No 595/2009 of the European Parliament and of the Council with respect to emissions from heavy duty vehicles (Euro VI) and amending Annexes I and III to Directive 2007/46/EC of the European Parliament and of the Council		L.167 pg.1 25.6.2011	20th day following its publication in the Official Journal of the European Union	Amending Reg. 595/2009 and Annexes I and III of Directive 2007/46/EC
		Reg. No. 133/2014	L.47 pg.1 18.2.2014	1 January 2014 with the exception of point 4 of Annex 1 which shall apply from 1 July 2014	Amending 2007/ 46/EC, Reg. 595/2009 and 582/2011
		Reg. No. 136/2014	L.43 pg.12 13.2.2014	20th day following that of its publication	Amending Directive 2007/ 46/EC, Reg. 692/2008 and Reg. 582/2011

		Reg. No. 627/2014	L.174 pg 28	20th day following that of its publication	Amending Reg. 582/2011

SCHEDULE XXII

[Regulation 32(6)]

LIST OF DIRECTIVES AND REGULATIONS AMENDING DIRECTIVE 2007/46/EC WHICH ARE IN FORCE.

Base Directive no.	**Title of Base Directive/Regulation**	**Official Journal reference/ Page**
Reg No. 1060/ 2008	COMMISSION REGULATION (EC) No 1060/2008 of 7 October 2008 replacing Annexes I, III, IV, VI, VII, XI and XV to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles (Framework Directive)	L292, p.1 31.10.2008
Reg No. 78/ 2009	COMMISSION REGULATION (EC) No 78/2009 of the European Parliament and of the Council of 14 January 2009 on the type-approval of motor vehicles with regard to the protection of pedestrians and other vulnerable road users, amending Directive 2007/46/EC and repealing Directives 2003/102/EC and 2005/66/EC	L35, p.1 4.02.2009
Reg No. 79/ 2009	COMMISSION REGULATION (EC) No 79/2009 of the European Parliament and of the Council of 14 January 2009 on type-approval of hydrogen-powered motor vehicles, and amending Directive 2007/46/EC	L35, p.32 4.02.2009
Reg No. 385/2009	COMMISSION REGULATION (EC) No 385/2009 of 7 May 2009 replacing Annex IX to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles (Framework Directive)	L 118, p.13 13.5.2009
Reg No. 595/2009	REGULATION (EC) No 595/2009 of the European Parliament and of the Council of 18th June 2009 on type-approval of motor vehicles and engines with respect to emissions from heavy duty vehicles (Euro VI) and on access to vehicle repair and maintenance information and amending Regulation (EC) No 715/2007 and Directive 2007/46/EC and repealing Directives 80/ 1269/EEC, 2005/55/EC and 2005/78/EC	L 188, p.1 18.7.2009
Reg No. 631/2009	COMMISSION REGULATION (EC) No 631/2009 of 22 July 2009 laying down detailed rules for the implementation of Annex I to Regulation (EC) 78/ 2009 of the European Parliament and of the Council on the type-approval of motor vehicles with regard to the protection of pedestrians and other vulnerable road users, amending Directive 2007/46/EC and repealing Directives 2003/102/EC and 2005/66/EC	L195, p.1 25.07.2009
Reg No. 661/ 2009	REGULATION (EC) 661/2009 of 13 July 2009 concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefore.	L 200, p.1 31.7.2009

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Directive 2010/19/EU	COMMISSION DIRECTIVE 2010/19/EU of 9 March 2010 amending, for the purpose of adaptation to technical progress in the field of spray-suppression systems of certain categories of motor vehicles and their trailers, council Directive 91/226/EEC, and Directive 2007/46/EC of the European Parliament and of the Council.	L 72, p.17 20.03.2010
Reg No. 371/ 2010	REGULATION (EC) 371/2010 of 16 April 2010 replacing Annexes V,X, XV and XVI to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles.	L 110, p.1 1.05.2010
Reg No. 183/ 2011	REGULATION (EU) No 183/2011 of 22 February 2011 amending Annexes IV and VI to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers and of systems, components and separate technical units intended for such vehicles.	L 53, p.4 26.02.2011
Reg No. 582/ 2011	REGULATION (EU) of 25 May 2011 implementing and amending Regulation (EC) No 595/2009 of the European Parliament and of the Council with respect to emissions from heavy duty vehicles (Euro VI) and amending Annexes I and III to Directive 2007/46/EC of the European Parliament and of the Council	L 167, p.1 25.06.2011
Reg No. 675/ 2011	REGULATION (EU) No 678/2011 of 14 July 2011 replacing Annex II and amending Annexes IV, IX and XI to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles	L 185, p.30 15.7.2011
Directive 2013/15/EU	Council Directive 2013/15/EU adapting certain directives in the field of free movement of goods, by reason of the accession of Croatia	L158, p.172 10.6.2013
Reg No. 65/ 2012	COMMISSION REGULATION (EU) No 65/2012 of 24 January 2012 implementing Regulation (EC) No 661/2009 of the EP and of the Council as regards gear shift indicators and amending Directive 2007/46/EC of the EP and of the Council	L28, p.24 31.1.2012
Reg No. 1229/ 2012	COMMISSION REGULATION (EU) No 1229/2012 of 10 December 2012 amending Annexes IV and XII to Directive 2007//EC of the EP and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles (Framework Directive)	L 353, p. 1 21.12.2012
Reg No. 1230/ 2012	COMMISSION REGULATION (EU) No 1230/2012 of 12 December 2012 implementing Regulation (EC) No 661/2009 of the EP and of the Council with regard to type-approval requirements for masses and dimensions of motor vehicles and their trailers and amending Directive 2007/46/EC of the EP and of the Council	L 353, p. 31 21.12.2012
Reg No 143/ 2013	COMMISSION REGULATION (EU) No 143/2013 of 19 February 2013 amending Directive 2007/46/EC of the European Parliament and of the Council and Commission Regulation (EC) No 692/2008 as regards the determination of CO2 emissions from vehicles submitted to multi-stage type approval	L 47, p.51 20.2.2013

Reg No 171/ 2013	COMMISSION REGULATION (EU) No 171/2013 of 26 February 2013 amending Annexes I and IX, replacing Annex VIII to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles (Framework Directive), and amending Annexes I and XII to Commission Regulation (EC) No 692/2008 implementing and amending Regulation (EC) No 715/2007 of the European Parliament and of the Council on type approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information.	L55, p.9 27.2.2013
Reg No 195/ 2013	COMMISSION REGULATION (EU) No 195/2013 of 7 March 2013 amending Directive 2007/46/EC of the EP and of the Council and Commission Regulation (EC) No 692/2008 as concerns innovative technologies for reducing CO2 emissions from light passenger and commercial vehicles.	L 65, p.1 8.3.2013
Reg No 133/ 2014	COMMISSION REGULATION (EU) No 133/2014 of 31 January 2014 amending, for the purposes of adapting to technical progress as regards emission limits, Directive 2007/46/EC of the European Parliament and of the Council, Regulation (EC) No 595/2009 of the European Parliament and of the Council and Commission Regulation (EU) No 582/2011	L 47, p.1 18.2.2014
Reg No 136/ 2014	COMMISSION REGULATION (EU) No 136/2014 of 11 February 2014 amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 as regards emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and Commission Regulation (EU) No 582/2011 as regards emissions from heavy duty vehicles (Euro VI)	L 43, p12 13.2.2014
Reg No 241/ 2014	COMMISSION REGULATION (EU) No 214/2014 of 25 February 2014 amending Annexes II, IV, XI, XII and XVIII to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles	L 69, p3 8.3.2014
Reg No 1171/ 2014	COMMISSION REGULATION (EU) No 1171/2014 of 31 October 2014 amending and correcting Annexes I, III, VI, IX, XI and XVII to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles	L 315, p3 1.11.2014
Reg No 2015/ 45	COMMISSION REGULATION (EU) 2015/45 of 14 January 2015 amending Directive 2007/46/EC of the European Parliament and of the Council and Commission Regulation (EC) No 692/2008 as regards innovative technologies for reducing CO2 emissions from light commercial vehicles	L 9 pg 1 15.1.2015

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