

**INFORMATION DOCUMENT  
FOR LIGHT BUSES AND BUSES**

<input type="checkbox"/> <b>Initial type approval</b>	<input type="checkbox"/> <b>Extension of a type of vehicle</b> Previous TA no. _____	<input type="checkbox"/> <b>Extension for modification</b> Previous TA no. _____
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Any drawings must be supplied in appropriate scale and in sufficient detail on size A4, or on a folder of A4 format. Photographs, if any, must show sufficient detail. Submissions in soft copy format are acceptable. If the systems, components or separate technical units have electronic controls, information concerning their performance must be supplied.

**Note: The information item printed in *Italic* shall also be completed if available.**

**0. GENERAL**

- 0.1. Make (trade name of manufacturer): \_\_\_\_\_
- 0.2. Type (multiple entries under one type is allowed): \_\_\_\_\_  
Variant/ Version/Model Code <sup>(1)</sup> (only list out model under this application) : \_\_\_\_\_
- 0.2.1. Commercial Name or Model Name or Sale Designation: \_\_\_\_\_
- 0.3. Means of identification of type, if marked on the vehicle <sup>(b)</sup> : \_\_\_\_\_
- 0.3.1. Location of that marking: \_\_\_\_\_
- 0.4. Category of vehicle: \_\_\_\_\_
- 0.5. Name and address of manufacturer: \_\_\_\_\_
- 0.5a. Name and address of manufacturer's local authorized representative **and his C&E ID**, if any: \_\_\_\_\_
- 0.6. Location of the statutory plates (if any): .....and \_\_\_\_\_
- 0.6.a. Location of the vehicle identification number (enter details in Section 9.17.): \_\_\_\_\_
- 0.6.b. The serial numbering of the type begins with no.: \_\_\_\_\_
- 0.8. Address(es) of assembly plant(s): \_\_\_\_\_

**1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE**

- 1.1. Photographs and drawings of a representative vehicle (showing the plan, front and rear elevations, nearside and offside elevations seat arrangement and space for standing passenger): .....
- 1.3. Number of axles: .....and wheels: .....
- 1.4. Chassis (overall drawing): .....

**2. MASSES AND DIMENSIONS (in kg and mm) (Refer to drawing where applicable)**

- 2.1. Wheelbase(s) (fully loaded) : .....
- 2.3.1. Track of each steered axle : .....
- 2.3.2. Track of all other axles : .....
- 2.4. Range of vehicle dimensions (overall)
- 2.4.2. For chassis with bodywork
- 2.4.2.1. Length : .....
- 2.4.2.2. Width : .....
- 2.4.2.3. Height: .....
- 2.6. Mass of the vehicle <sup>(o)</sup> (maximum and minimum for each variant): .....
- 2.6.1. Distribution of this mass among the axles (maximum and minimum for each variant): 1.....  
2.....etc
- 2.8. Technically permissible maximum laden mass <sup>(z2)</sup> stated by the manufacturer <sup>(\*)</sup> : .....
- 2.8.1. Distribution of this mass among the axles <sup>(\*)</sup> : 1..... 2.....etc

**3. POWER PLANT**

- Example*
- 3.1. Manufacturer (Make): ABC
- 3.1.1. Manufacturer's engine code as marked on engine (Type): J10 -xxxxxx  
*(x means serial no.)*
- 3.1.1.c Emission approval reference: (Please enclosed EPD's Approval letter) (File reference on EPD's Approval letter)
- 3.2. Internal combustion engine
- 3.2.1.1. Working principle: Positive ignition - LPG
- 3.2.1.2. Number and arrangement of cylinders: 4 in line
- 3.2.1.3. Engine capacity: 1500 c.c.
- 3.2.1.8. Maximum power output at speed: 103 kW at RPM
- 3.2.9 Exhaust system
- 3.2.9.2 Description and/or drawing of the exhaust system: See drawing xxx
- 3.2.12.2.1 Catalytic converter Identification Marks Yes/No
- 3.2.12.2.6 Particulate trap Identification Marks Yes/No
- 3.2.12.2.7 On-board-diagnostic (OBD) system Yes/No
- 3.2.15. LPG fuelling system: Yes/~~no~~
- 3.2.15.1. Type-approval number: (Please enclosed EMSD's Approval letter) (File reference on EMSD's Approval letter)

**4. TRANSMISSION**

- 4.5. Gearbox(Make and Type) : .....
- 4.5.1. Type (manual/automatic/CVT (continuously variable transmission)) <sup>(1)</sup>
- 4.6. Gear ratios

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

\* Continuously variable transmission.

- 4.7. Maximum vehicle speed (in km/h)(A 5% tolerance is permitted): \_\_\_\_\_
- 4.8. Speedometer Make(s)/ Type(s): \_\_\_\_\_
- 4.8.1. Method of operation and description of drive mechanism: \_\_\_\_\_
- 4.8.2. Instrument constant of the speedometer: e.g. plus per km \_\_\_\_\_
- 4.8.3. Tolerance of the measuring mechanism of the speedometer: \_\_\_\_\_
- 4.8.4. Overall transmission ratio or equivalent data: \_\_\_\_\_
- 4.8.5. Diagram of the speedometer scale or other forms of display: \_\_\_\_\_
- 4.8a. Speed display device Make(s)/ Type(s): (for Public light Bus only) \_\_\_\_\_

**6. SUSPENSION**

- 6.2. Type of the suspension: .....
- 6.6. Tyres and wheels (including all options)
- 6.6.1. Tyre/Wheel combination(s) (for tyres indicate size designation, minimum load-capacity index, minimum speed category symbol; 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.

7. **STEERING** (Make And Type): .....

8. **BRAKES**

- 8.1. Type and characteristics of the brakes with a drawing: .....
- 8.2. Operating diagram, description and/or drawing of
  - 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 (if fitted e.g. retarder etc.): .....
- 8.5. Anti-lock braking system: yes/no/optional <sup>(1)</sup>

9. **BODYWORK**

- 9.5. Windscreen and other windows
  - 9.5.1. Windscreen
    - 9.5.1.1. Materials used (e.g. safety glass, safety plastic etc.) and standard (ECE, BS): .....
  - 9.5.2. Other windows
    - 9.5.2.1. Materials used (e.g. safety glass, safety plastic etc.) and standard (ECE, BS): .....
- 9.10.3. Seats (including seat, impact energy absorption material and fire resistance material)
  - 9.10.3.1. Number of seat: .....
  - 9.10.3.2. Drawing of seat's position and their arrangement (including controlled surface, restraining barrier etc ): .....
  - 9.10.3.4.1. Drawing of seat and their anchorage: .....
- 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:

		Declare the Type-approval mark e.g. ECE, EC,BS etc.	Variant (if applicable)	Belt adjustment device for height (indicate yes/no/optional)
First row of seats	L	NA		
	C	NA		
	DR	ECE	NA	YES
2 <sup>nd</sup> – 3 <sup>rd</sup> row of seats *	L	NA	NA	NO
	C	ECE	NA	NO
	R	ECE	NA	NO
4 <sup>th</sup> –7 <sup>th</sup> row of seats *	L	ECE	NA	NO
	C	ECE	NA	NO
	L	ECE	NA	NO

L = left-hand side; R = right-hand side; C = center; DR = Driver seat  
 \* 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 Safety belt anchorages (**Please enclosed a test certificate**) : Test report No. aaxxxxxxx (**enclosed**)
  - 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: .....
- 9.17. Statutory plates (if any) and vehicle identification number
  - 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 official part of the plates and inscriptions (completed example with dimensions): .....

- 9.17.3. Photographs and/or drawings of the chassis number (completed example with dimensions): .....
- 9.17.4. Manufacturer's declaration of compliance with the requirement
- 9.17.4.1 The meaning of characters shall be explained: .....

## 10. LIGHTING AND LIGHT-SIGNALLING DEVICES

- 10.1. List of all devices(mentioning the number, type approval See example below marks, colour, the corresponding tell-tale): \_\_\_\_\_
- 10.4. Dipped beam lamps \_\_\_\_\_
- 10.4.1. Value of initial adjustment \_\_\_\_\_

10.1	Category	Colour	No.	Circuit-closed tell-tale	Approval mark/number	Light source*
a	Main-beam Headlamp	White		Yes/No <sup>1</sup>	E/e/ 自 /Other <sup>1</sup> : _____	
b	Dipped-beam Headlamp	White		-	E/e/ 自 /Other <sup>1</sup> : _____	
c	Front Retro reflectors	Identical to incident light		-	E/e/ 自 /Other <sup>1</sup> : _____	
d	Front position lamps	White		Yes/No <sup>1</sup>	E/e/ 自 /Other <sup>1</sup> : _____	
e	Direction indicator lamps	Amber		Yes/No <sup>1</sup>	E/e/ 自 /Other <sup>1</sup> : _____	
f	Hazard warning signal	Amber		Yes/No <sup>1</sup>	E/e/ 自 /Other <sup>1</sup> : _____	
g	Rear Position lamps	Red		Yes/No <sup>1</sup>	E/e/ 自 /Other <sup>1</sup> : _____	
h	Stop lamps	Red		-	E/e/ 自 /Other <sup>1</sup> : _____	
i	Rear registration plate lamp	White		-	E/e/ 自 /Other <sup>1</sup> : _____	
j	Reversing lamps	White		-	E/e/ 自 /Other <sup>1</sup> : _____	
k	Rear Retro reflectors	Red		-	E/e/ 自 /Other <sup>1</sup> : _____	
<i>Optional device (if present)</i>						
l	Front fog lamps	Yellow		Yes/No <sup>1</sup>	E/e/ 自 /Other <sup>1</sup> : _____	
m	Daytime running lamps	White		-	E/e/ 自 /Other <sup>1</sup> : _____	
n	Cornering lamps	White		-	E/e/ 自 /Other <sup>1</sup> : _____	
o	Parking lamps	Front: white Rear: red or amber		-	E/e/ 自 /Other <sup>1</sup> : _____	
p	End-outline marker lamps	Front: white Rear: red		-	E/e/ 自 /Other <sup>1</sup> : _____	
q	Side maker lamps	Amber; rearmost: red or amber		-	E/e/ 自 /Other <sup>1</sup> : _____	
r	Side Retro reflectors	Amber; rearmost: red or amber		-	E/e/ 自 /Other <sup>1</sup> : _____	
s	Rear fog lamps	Red		Yes/No <sup>1</sup>	E/e/ 自 /Other <sup>1</sup> : _____	
<i>This table can be extended to suit.</i>						
<i>*Light Source: "F" for filament lamp; "H" for HID lamp; "L" for LED</i>						

## 13. SPECIAL PROVISIONS FOR VEHICLES USED FOR THE CARRIAGE OF PASSENGERS COMPRISING MORE THAN EIGHT SEATS IN ADDITION TO THE DRIVER'S SEAT

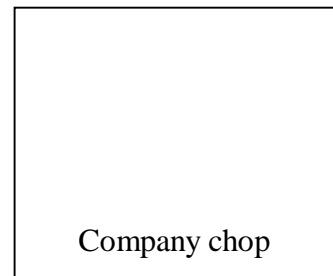
- 13.2. Area for passengers
- 13.2.4. Standing passengers: .....
- 13.3. Number of passengers (seated and standing)
- 13.3.1. Total: .....
- 13.3.2. Upper deck <sup>(1)</sup>: .....
- 13.3.3. Lower deck <sup>(1)</sup>: .....
- 13.4. Number of passengers (seated)
- 13.4.1. Total: .....
- 13.4.2. Upper deck <sup>(1)</sup>: .....

- 13.4.3. Lower deck <sup>(1)</sup> : .....
- 13.5. Number of service doors: .....
- 13.6. Number of emergency exits (doors, windows, escape hatches, intercommunication staircase and halt staircase): .....
- 13.6.1. Total: .....
- 13.6.2. Upper deck <sup>(1)</sup> : .....
- 13.6.3. Lower deck <sup>(1)</sup> : .....
- 13.7. Volume of luggage compartments (m<sup>3</sup>): .....
- 13.9. Technical devices facilitating the access to vehicles (e.g. ramp, lifting platform, kneeling system), if fitted: .....

**Summary of the construction standards and certificates**

Item No.	Subject*	Standard	Certificate Ref. No.	Remarks
3.1.1c	Sound level			
3.1.1c	Exhaust Emission			
4.8	Speedometer			
4.8a.	Speed display device			
9.5	Safety Glass			
9.10.3	Seat(including seats'/controlled surfaces'/restraining barriers' etc certificate and reports on impact energy absorption material and fire resistance material etc)			
9.12	Seat belts			
9.13	Seat belt anchorages			
10.1	Installation of lighting and signaling devices			
a, b	Headlamps			
c	Front retro reflector (non-triangle)			
d, g, h, m, q, p	Front position lamps, rear position lamps, stop lamps, daytime running lamps, side maker lamp, end-outline marker lamps,			
e, f	Direction indicator			
i	Rear registration plate lamp			
j	Reversing lamp			
k	Rear retro reflector (non-triangle)			
l	Front fog lamps			
n	Cornering lamp			
o	Parking lamp			
r	Side retro reflector (non-triangle)			
s	Rear fog lamp			
<p>If those data required in this form is available in your test report/certificate whilst you can provide an hyperlink in this form to the test report and certificate in CD-ROM accomplished with this application, you are not required to repeat the data entry in this form.</p> <p>* Deleted if not applicable</p>				

**Authority Signature :** \_\_\_\_\_  
**Post :** \_\_\_\_\_  
**Company :** \_\_\_\_\_  
**Date :** \_\_\_\_\_



## Notes

- (\*) Please fill in here the upper and lower values for each variant.
- (1) Delete where not applicable (there are cases where nothing need be deleted when more than one entry is applicable).
- (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 listed in Annex 7 to the Consolidated Resolution on the Construction of Vehicle (R.E.3) or the vehicle approval standard in building such vehicle(e. M1/EU, Passenger Motor Vehicle//Japan etc.).
- (o) Mass of the vehicle with bodywork (if applicable) in running order including coolant, oils, fuel, spare wheels, tools and driver. The mass of the driver is 75 kg (according to ISO Standard 2416-1992) and the fuel tank is filled to 90 % and the other liquid containing systems (except those for used water) to 100 % of the capacity specified by the manufacturer.
- (Z2) 'Technically permissible maximum laden mass (M)' means the maximum mass of the vehicle based on its construction and performance, stated by the manufacturer.