

ANNEX XIII

EC TYPE-APPROVAL OF REPLACEMENT POLLUTION CONTROL DEVICES AS SEPARATE TECHNICAL UNIT

4. TECHNICAL REQUIREMENTS

- 4.1. The requirements for the type-approval of replacement pollution control devices shall be those of Section 5 of UN/ECE Regulation 103 with the exceptions set out in sections 4.1.1 to 4.1.4.
 - 4.1.1. The terms ‘catalytic converter’ and ‘converter’ used in section 5 of UN/ECE Regulation 103 shall be understood to mean ‘pollution control device’
 - 4.1.2. The regulated pollutants referred to throughout section 5.2.3 of UN/ECE Regulation 103 shall be replaced by all the pollutants specified in Annex 1, Tables 1 and 2 of Regulation (EC) No 715/2007 for replacement pollution control devices intended to be fitted to vehicles type approved to Regulation (EC) No 715/2007.
 - 4.1.3. For replacement pollution control devices standards intended to be fitted to vehicles type approved to Regulation (EC) No 715/2007, the durability requirements and associated deterioration factors specified in section 5 of UN/ECE Regulation 103, shall refer to those specified in Annex VII of this Regulation.
 - 4.1.4. Reference to Appendix 1 of the type-approval communication in section 5.5.3 of UN/ECE Regulation 103 shall be understood as reference to the addendum to the EC type-approval certificate on vehicle OBD information (Appendix 5 to Annex I).
- 4.2. For vehicles with positive-ignition engines, if the THC and NMHC emissions measured during the demonstration test of a new original equipment catalytic converter, under paragraph 5.2.1 of UN/ECE Regulation 103, are higher than the values measured during the type-approval of the vehicle, the difference shall be added to the OBD threshold limits. The OBD threshold limits are specified in either:
 - (a) point 3.3.2 of Annex 11 to UN/ECE Regulation 83 for replacement parts intended to be fitted on vehicles type-approved to Directive 70/220/EEC; or
 - (b) point 2.3 of Annex XI of this Regulation for replacement parts intended to be fitted on vehicles type-approved to Regulation (EC) No 715/2007.
- 4.3. The revised OBD threshold limits will apply during the tests of OBD compatibility set out in paragraphs 5.5 to 5.5.5 of UN/ECE Regulation 103. In particular, when the exceedance allowed in paragraph 1 of Appendix 1 to Annex 11 to UN/ECE Regulation 83 is applied.
- 4.4. Requirements for replacement periodically regenerating systems
 - 4.4.1. Requirements regarding emissions
 - 4.4.1.1. The vehicle(s) indicated in Article 11(3), equipped with a replacement periodically regenerating system of the type for which approval is requested, shall be subject to the tests described in Section 3 of Annex 13 of UN/ECE Regulation 83, in order to compare its performance with the same vehicle equipped with the original periodically regenerating system.
 - 4.4.2. Determination of the basis for comparison

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- 4.4.2.1. The vehicle shall be fitted with a new original periodically regenerating system. The emissions performance of this system shall be determined following the test procedure set out in section 3 of Annex 13 of UN/ECE Regulation 83.
- 4.4.2.2. Upon request of the applicant for the approval of the replacement component, the approval authority shall make available on a non-discriminatory basis, the information referred to in points 3.2.12.2.1.11.1 and 3.2.12.2.6.4.1 of the information document contained in Appendix 3 to Annex I to this Regulation for each vehicle tested.
- 4.4.3. Exhaust gas test with a replacement periodically regeneration system
 - 4.4.3.1. The original equipment periodically regenerating system of the test vehicle(s) shall be replaced by the replacement periodically regenerating system. The emissions performance of this system shall be determined following the test procedure set out in paragraph 3 Annex 13 of UN/ECE Regulation 83.
 - 4.4.3.2. To determine the D-factor of the replacement periodically regenerating system, any of the engine bench methods referred to in paragraph 3 of Annex 13 of UN/ECE Regulation 83 may be used.
- 4.4.4. Other requirements

The requirements of paragraphs 5.2.3, 5.3, 5.4 and 5.5 of UN/ECE Regulation 103 shall apply to replacement periodically regenerating systems. In these paragraphs the words ‘catalytic converter’ shall be understood to mean ‘periodically regenerating system’. In addition the exceptions made to these paragraphs in section 4.1 of this annex shall also apply to periodically regenerating systems.

Changes to legislation:

There are currently no known outstanding effects for the Commission Regulation (EC) No 692/2008, Division 4..