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**Changes to legislation:** Regulation (EU) 2018/858 of the European Parliament and of the Council, Division 3, is up to date with all changes known to be in force on or before 05 July 2024. There are changes that may be brought into force at a future date. Changes that have been made appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

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## ANNEX X

### **ACCESS TO VEHICLE OBD INFORMATION AND VEHICLE REPAIR AND MAINTENANCE INFORMATION**

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## Appendix 2

### Vehicle OBD information

#### 3. Information required for the manufacturing of diagnostic tools

In order to facilitate the provision of generic diagnostic tools for multi-make repairers, vehicle manufacturers shall make available the information referred to in points 3.1, 3.2 and 3.3 through their repair information websites. That information shall include all diagnostic tool functions and all the links to repair information and troubleshooting instructions. The access to the information may be subject to the payment of a reasonable fee.

##### 3.1. Communication protocol information

The following information shall be required indexed against vehicle make, model and variant, or another workable definition such as the VIN or the vehicle and systems identification:

- 3.1.1. any additional protocol information system necessary to enable complete diagnostics in addition to the standards prescribed in paragraph 4.7.3 of Annex 9B to UN Regulation No 49 and in paragraph 6.5.1.4 of Annex 11 to UN Regulation No 83, including any additional hardware or software protocol information, parameter identification, transfer functions, 'keep alive' requirements, or error conditions;
- 3.1.2. details of how to obtain and interpret all the fault codes that do not comply with the standards prescribed in paragraph 4.7.3 of Annex 9B to UN Regulation No 49 and in paragraph 6.5.1.4 of Annex 11 to UN Regulation No 83;
- 3.1.3. a list of all available live data parameters, including scaling and access information;
- 3.1.4. a list of all available functional tests, including device activation or control and the means to implement them;
- 3.1.5. details of how to obtain all component and status information, time stamps, pending DTC and freeze frames;
- 3.1.6. resetting adaptive learning parameters, variant coding and replacement component setup, and customer preferences;
- 3.1.7. Electronic control unit (ECU) identification and variant coding;
- 3.1.8. details of how to reset service lights;
- 3.1.9. location of diagnostic connector and connector details;
- 3.1.10. engine code identification.

##### 3.2. Test and diagnosis of OBD monitored components

The following information shall be required:

- 3.2.1. a description of tests to confirm the functionality, at the component or in the harness;
- 3.2.2. information concerning the test procedure, including test parameters and component information;
- 3.2.3. connection details, including minimum and maximum input and output and driving and loading values;

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- 3.2.4. values to be expected under certain driving conditions, including idling;
  - 3.2.5. electrical values for the component in its static and dynamic states;
  - 3.2.6. failure mode values for each of the scenarios;
  - 3.2.7. failure mode diagnostic sequences, including fault trees and guided diagnostics elimination.
- 3.3. Data required to perform the repair

The following information shall be required:

- 3.3.1. ECU and component initialisation (in the event of replacements being fitted);
- 3.3.2. initialisation of new or replacement ECU's where relevant using pass-through (re-) programming techniques.

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**Changes and effects yet to be applied to :**

- Regulation power to amend conferred by [2024 c. 10 s. 91](#)