

Commission Regulation (EU) No 347/2012 of 16 April 2012 implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council with respect to type-approval requirements for certain categories of motor vehicles with regard to advanced emergency braking systems

Article 1	Scope
Article 2	Definitions
Article 3	Obligations of the Member States
Article 4	EC type-approval of a type of vehicle with regard to AEBS
Article 5	Amendment to Appendix 2 of Annex II
Article 6	Entry into force
	Signature

ANNEX I

Standard information document and EC type-approval certificate
for the type-approval of motor vehicles with regard to AEBS

PART 1

Information document

MODEL

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): ...
 - 0.3. Means of identification of type, if marked on the vehicle: ...
 - 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: ...
 - 0.5. Name and address of manufacturer: ...
 - 0.6. Location and method of attachment of statutory plates and location...
 - 0.6.1. On the chassis: ...
 - 0.6.2. On the bodywork: ...
 - 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: ...
 - 1.3.1. Number and position of axles with twin wheels: ...
 - 1.3.2. Number and position of steered axles: ...

Changes to legislation: There are outstanding changes not yet made to Commission Regulation (EU) No 347/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

- 1.3.3. Powered axles (number, position, interconnection): ...
- 2. **MASSES AND DIMENSIONS**
 - 2.1. Wheelbase(s) (fully loaded)
 - 2.1.1. Two axle vehicles: ...
 - 2.1.1.1. Vehicles with three or more axles
 - 2.3. Axle track(s) and width(s)
 - 2.3.1. Track of each steered axle: ...
 - 2.3.2. Track of all other axles: ...
 - 2.3.4. Width of the foremost axle (measured at the outermost part...
 - 2.4. Range of vehicle dimensions (overall)
 - 2.4.1. For chassis without bodywork
 - 2.4.1.1. Length: ...
 - 2.4.1.1.1. Maximum permissible length: ...
 - 2.4.1.1.2. Minimum permissible length: ...
 - 2.4.1.2. Width: ...
 - 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: ...
 - 2.4.2.1.1. Length of the loading area: ...
 - 2.4.2.2. Width: ...
 - 2.4.3. For bodywork approved without chassis (vehicles M2 and M3)
 - 2.4.3.1. Length: ...
 - 2.4.3.2. Width: ...
 - 2.6. Mass in running order
 - 4.7. Maximum vehicle design speed (in km/h)n: ...
- 8. **BRAKES**
 - 8.1. Type and characteristics of the brakes as defined in point...
 - 8.2. Operating diagram, description and/or drawing of the braking system described...
 - 8.2.1. Service braking system: ...
 - 8.2.2. Secondary braking system: ...
 - 8.2.4. Any additional braking system: ...
 - 8.3. Control and transmission of trailer braking systems in vehicles designed...
 - 8.4. Vehicle is equipped to tow a trailer with electric/pneumatic/hydraulic service...
 - 8.5. Anti-lock braking system
 - 8.5.1. description of system operation (including any electronic parts), electric block...
 - 8.6. Calculation and curves according to the Appendix to point 1.1.4.2...
 - 8.7. Description and/or drawing of the energy supply, also to be...
 - 8.7.1. In the case of compressed-air braking systems, working pressure p₂...
 - 8.7.2. In the case of vacuum braking systems, the initial energy...
- 13. **SPECIAL PROVISIONS FOR BUSES AND COACHES**
 - 13.1. Class of vehicle: Class III/Class B

Explanatory notes

Changes to legislation: There are outstanding changes not yet made to Commission Regulation (EU) No 347/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

PART 2

MODEL (maximum format: A4 (210 × 297 mm)) EC TYPE-APPROVAL CERTIFICATE Stamp...

MODEL (maximum format: A4 (210 × 297 mm)) EC TYPE-APPROVAL CERTIFICATE Stamp of...EC TYPE-APPROVAL CERTIFICATE Stamp of type-approval authority Communication concerning: EC...

SECTION I

0.1. Make (trade name of manufacturer):

- 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...
 - 0.3.1. Location of that marking:
- 0.4. Category of vehicle:
- 0.5. Name and address of manufacturer:
- 0.8. Names and address(es) of assembly plant(s):
- 0.9. Representative of the manufacturer

SECTION II

1. Additional information (where applicable): See Addendum

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:

Addendum

to EC type-approval certificate No ...

1. Additional information
 - 1.1. Brief description of the advanced emergency braking system (AEBS) fitted...
4. Test results according to Annex II to Regulation (EU) No...
 - 4.1. Details that enable to identify and reproduce the targets used...
 - 4.2. List of positive actions resulting in the interruption of the...
 - 4.3. List of positive actions resulting in the interruption of the...
 - 4.4. Description of the warning indication and the sequence in which...
 - 4.5. Mass and condition of load of the vehicle when tested...
 - 4.6. Details which enable the test targets to be specifically identified...
 - 4.7. Result of the warning and activation test with a stationary...
 - 4.8. Results of the warning and activation test with a moving...
 - 4.9. Results of the failure detection test

Changes to legislation: There are outstanding changes not yet made to Commission Regulation (EU) No 347/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

- 4.10. Results of the deactivation test (only if the vehicle is...
 - 4.11. Results of the false reaction test
 - 4.12. The type of vehicle with its advanced emergency braking system...
 - 4.13. The type of vehicle with its advanced emergency braking system...
5. Remarks (if any):

ANNEX II

Requirements and tests for the type-approval of motor vehicles with regard to AEBS

1. Requirements
 - 1.1. General requirements
 - 1.1.1. Any vehicle covered by the scope of this Regulation shall,...
 - 1.1.2. The effectiveness of the AEBS shall not be adversely affected...
 - 1.1.3. Conformity with the safety aspects of complex electronic control systems...
 - 1.2. Performance requirements
 - 1.2.1. The system shall provide the driver with appropriate warnings as...
 - 1.2.2. Subsequent to the warning(s) referred to in point 1.2.1.1, and...
 - 1.2.3. The AEBS shall be active at least within the vehicle...
 - 1.2.4. The AEBS shall be designed to minimise the generation of...
 - 1.3. Interruption by the driver
 - 1.3.1. The AEBS may provide the means for the driver to...
 - 1.3.2. The AEBS shall provide the means for the driver to...
 - 1.3.3. In the cases referred to in points 1.3.1 and 1.3.2,...
 - 1.4. When a vehicle is equipped with a means to deactivate...
 - 1.5. Warning indication
 - 1.5.1. The collision warning referred to in point 1.2.1.1 shall be...
 - 1.5.2. A description of the warning indication and the sequence in...
 - 1.5.3. Where an optical means is used as part of the...
 - 1.5.4. The failure warning referred to in point 1.2.1.2 shall be...
 - 1.5.5. Each AEBS optical warning signal shall be activated either when...
 - 1.5.6. The optical warning signals shall be visible even by daylight;...
 - 1.5.7. When the driver is provided with an optical warning signal...
 - 1.6. Provisions for the periodic technical inspection
 - 1.6.1. At a periodic technical inspection it shall be possible to...
 - 1.6.2. At the time of type-approval, the means to protect against...
2. Test procedures
 - 2.1. Test conditions
 - 2.1.1. The test shall be performed on a flat, dry concrete...
 - 2.1.2. The ambient temperature shall be between 0 °C and 45 °C.
 - 2.1.3. The horizontal visibility range shall allow the target to be...
 - 2.1.4. The tests shall be performed when there is no wind...
 - 2.2. Vehicle conditions
 - 2.2.1. Test weight
 - 2.3. Test targets
 - 2.3.1. The target used for the tests shall be a regular...
 - 2.3.2. Details that enable the target(s) to be specifically identified and...
 - 2.4. Warning and activation test with a stationary target
 - 2.4.1. The subject vehicle shall approach the stationary target in a...

Changes to legislation: There are outstanding changes not yet made to Commission Regulation (EU) No 347/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

- 2.4.2. The timing for the collision warning modes referred to in...
- 2.4.3. The collision warning phase shall be followed by the emergency...
- 2.4.4. The emergency braking phase shall not start before a TTC...
- 2.4.5. The total speed reduction of the subject vehicle at the...
- 2.5. Warning and activation test with a moving target
 - 2.5.1. The subject vehicle and the moving target shall travel in...
 - 2.5.2. The timing for the collision warning modes referred to in...
 - 2.5.3. The collision warning phase shall be followed by the emergency...
 - 2.5.4. The emergency braking phase shall not start before a TTC...
- 2.6. Failure detection test
 - 2.6.1. Simulate an electrical failure, for example by disconnecting the power...
 - 2.6.2. The failure warning signal referred to in point 1.5.4 shall...
- 2.7. Deactivation test
 - 2.7.1. For vehicles equipped with means to deactivate the AEBS, turn...
- 2.8. False reaction test
 - 2.8.1. Two stationary vehicles, of category M1 AA saloon, shall be...
 - 2.8.2. The subject vehicle shall travel for a distance of at...
 - 2.8.3. The AEBS shall not provide a collision warning and shall...

Appendix 1

Appendix 2

Approval level 2: warning and activation test requirements — pass/fail...

ANNEX III

Special requirements to be applied to the safety aspects of complex electronic vehicle control systems

- 1. General
- 2. Definitions
- 3. Documentation
 - 3.1. Requirements
 - 3.1.1. Documentation shall be made available in the following two parts:...
 - 3.2. Description of the functions of ‘the System’
 - 3.2.1. A list of all input and sensed variables shall be...
 - 3.2.2. A list of all output variables which are controlled by...
 - 3.2.3. Limits defining the boundaries of functional operation shall be stated...
 - 3.3. System layout and schematics
 - 3.3.1. Inventory of components
 - 3.3.2. Functions of the units
 - 3.3.3. Interconnections
 - 3.3.4. Signal flow and priorities
 - 3.3.5. Identification of units

Changes to legislation: There are outstanding changes not yet made to Commission Regulation (EU) No 347/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

- 3.3.5.1. The identification defines the hardware and software version and, where...
 - 3.4. Safety concept of the manufacturer
 - 3.4.1. The manufacturer shall provide a statement which affirms that the...
 - 3.4.2. In respect of software used in ‘the System’, the outline...
 - 3.4.3. The manufacturer shall provide the technical authorities with an explanation...
 - 3.4.3.1. If the chosen provision selects a partial performance mode of...
 - 3.4.3.2. If the chosen provision selects a second (back-up) means to...
 - 3.4.3.3. If the chosen provision selects the removal of the higher...
 - 3.4.4. The documentation shall be supported, by an analysis which shows,...
 - 3.4.4.1. This documentation shall itemise the parameters being monitored and shall...
- 4. Verification and Test
 - 4.1. The functional operation of ‘the System’, as laid out in...
 - 4.1.1. Verification of the function of ‘the System’
 - 4.1.2. Verification of the safety concept referred to in point 3.4...

Changes to legislation: *There are outstanding changes not yet made to Commission Regulation (EU) No 347/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes*

- (1) [OJ L 200, 31.7.2009, p. 1.](#)
- (2) [OJ L 263, 9.10.2007, p. 1.](#)

Changes to legislation:

There are outstanding changes not yet made to Commission Regulation (EU) No 347/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations.

[View outstanding changes](#)

Changes and effects yet to be applied to :

- Annex 1 heading word substituted by S.I. 2022/1273 reg. 69(8)(a)
- Annex 1 Pt. 1 word substituted by S.I. 2022/1273 reg. 69(8)(b)(i)
- Annex 1 Pt. 2 Addendum heading word substituted by S.I. 2022/1273 reg. 69(8)(f)
- Annex 1 Pt. 1 point 8.1 words substituted by S.I. 2022/1273 reg. 69(8)(b)(ii)
- Annex 1 Pt. 1 point 8.2 words substituted by S.I. 2022/1273 reg. 69(8)(b)(iii)
- Annex 1 Pt. 1 point 8.6 words substituted by S.I. 2022/1273 reg. 69(8)(b)(iv)
- Annex 1 Pt. 1 notes words substituted by S.I. 2022/1273 reg. 69(8)(c)(i)
- Annex 1 Pt. 1 notes words substituted by S.I. 2022/1273 reg. 69(8)(c)(ii)
- Annex 1 Pt. 1 notes words substituted by S.I. 2022/1273 reg. 69(8)(c)(iii)
- Annex 1 Pt. 2 words substituted by S.I. 2022/1273 reg. 69(8)(d)(i)
- Annex 1 Pt. 2 words substituted by S.I. 2022/1273 reg. 69(8)(d)(ii)(aa)
- Annex 1 Pt. 2 words substituted by S.I. 2022/1273 reg. 69(8)(d)(ii)(bb)
- Annex 1 Pt. 2 notes words substituted by S.I. 2022/1273 reg. 69(8)(e)
- Annex 2 point 2.4.1(a) omitted by S.I. 2022/1273 reg. 69(9)(a)
- Annex 2 point 2.4.2.2 words omitted by S.I. 2022/1273 reg. 69(9)(b)
- Annex 2 point 2.4.5 words omitted by S.I. 2022/1273 reg. 69(9)(c)
- Annex 2 point 2.5.1 words omitted by S.I. 2022/1273 reg. 69(9)(d)
- Annex 2 point 2.5.2.1 words omitted by S.I. 2022/1273 reg. 69(9)(e)
- Annex 2 point 2.5.2.2 words omitted by S.I. 2022/1273 reg. 69(9)(f)
- Art. 1 words substituted by S.I. 2022/1273 reg. 69(2)(a)
- Art. 2 words substituted by S.I. 2022/1273 reg. 69(3)(a)
- Art. 3 heading words substituted by S.I. 2022/1273 reg. 69(4)(a)
- Art. 3(1) omitted by S.I. 2022/1273 reg. 69(4)(b)
- Art. 3(2) omitted by S.I. 2022/1273 reg. 69(4)(b)
- Art. 3(3) word substituted by S.I. 2022/1273 reg. 69(4)(c)(ii)
- Art. 3(3) words omitted by S.I. 2022/1273 reg. 69(4)(c)(iii)
- Art. 3(3) words substituted by S.I. 2022/1273 reg. 69(4)(c)(i)
- Art. 3(4) words substituted by S.I. 2022/1273 reg. 69(4)(d)(i)
- Art. 3(4) words substituted by S.I. 2022/1273 reg. 69(4)(d)(ii)
- Art. 3(5) words substituted by S.I. 2022/1273 reg. 69(4)(e)(i)
- Art. 4 heading word substituted by S.I. 2022/1273 reg. 69(5)(a)
- Art. 4(1) word substituted by S.I. 2022/1273 reg. 69(5)(a)
- Art. 4(3) words substituted by S.I. 2022/1273 reg. 69(5)(b)(i)
- Art. 4(3) words substituted by S.I. 2022/1273 reg. 69(5)(b)(ii)
- Art. 4(3) words substituted by S.I. 2022/1273 reg. 69(5)(b)(iii)
- Art. 4(4) words substituted by S.I. 2022/1273 reg. 69(5)(c)
- Art. 5 omitted by S.I. 2022/1273 reg. 69(6)

Changes and effects yet to be applied to the whole legislation item and associated provisions

- Signature words omitted by S.I. 2022/1273 reg. 69(7)
- Annex 2 Appendix 1 omitted by S.I. 2022/1273 reg. 69(9)(g)
- Annex 2 Appendix 2 footnotes words omitted by S.I. 2022/1273 reg. 69(9)(h)
- Art. 1(4) words substituted by S.I. 2022/1273 reg. 69(2)(b)
- Art. 1(5) words substituted by S.I. 2022/1273 reg. 69(2)(b)
- Art. 2(3) words substituted by S.I. 2022/1273 reg. 69(3)(b)
- Art. 3(5)(a) words omitted by S.I. 2022/1273 reg. 69(4)(e)(ii)(bb)
- Art. 3(5)(a) words substituted by S.I. 2022/1273 reg. 69(4)(e)(ii)(aa)

- Art. 3(5)(c) words omitted by S.I. 2022/1273 reg. 69(4)(e)(ii)(bb)
- Art. 3(5)(c) words substituted by S.I. 2022/1273 reg. 69(4)(e)(ii)(aa)