# Commission Delegated Regulation (EU) 2017/1576 of 26 June 2017 amending Regulation (EU) No 540/2014 of the European Parliament and of the Council as regards the Acoustic Vehicle Alerting System requirements for vehicle EU-type approval (Text with EEA relevance)

## COMMISSION DELEGATED REGULATION (EU) 2017/1576

of 26 June 2017

amending Regulation (EU) No 540/2014 of the European Parliament and of the Council as regards the Acoustic Vehicle Alerting System requirements for vehicle EU-type approval

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) No 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending Directive 2007/46/EC and repealing Directive 70/157/EEC[(1)], and in particular the second paragraph of Article 8 and Article 9 thereof,

Whereas:

(1) Regulation (EU) No 540/2014 lays down requirements for the EU type-approval of all new vehicles of categories M (vehicles used for the carriage of passengers) and N (vehicles used for the carriage of goods) with regard to their sound level. That Regulation also lays down measures concerning the Acoustic Vehicle Alerting System (AVAS) for hybrid electric and pure electric vehicles, aiming at the warning of vulnerable road users.

(2) Following the adoption, at the 168th session of the World Forum for Harmonization of Vehicle Regulations of the United Nations Economic Commission for Europe (UNECE), which took place on 8 — 11 March 2016, of UN Regulation 138 on the approval of quiet road transport vehicles, Annex VIII to Regulation (EU) No 540/2014 should be reviewed in order to improve the accuracy of the AVAS requirements on type and volume of emitted sound, the sound generation method, the pause switch and stationary sound.

(3) The information document pursuant to Annex I to Directive 2007/46/EC of the European Parliament and of the Council[(2)] relating to EU type-approval of a vehicle with respect to the permissible sound level and the addendum to the EU type-approval certificate should be reviewed to reflect the detailed requirements on AVAS.

(4) In addition, to allow for the approval of hybrid electric and pure electric vehicles which are equipped with AVAS, it is appropriate to introduce testing requirements on the AVAS

sound emission minimum levels in forward and reverse motion as well as on the emitted sound frequency shift.

(5) Regulation (EU) No 540/2014 should therefore be amended accordingly.

(6) Given that Regulation (EU) No 540/2014 has become applicable on 1 July 2016 and that it cannot be fully applied without the amendments to Annex VIII included in this act, this Regulation should enter into force as soon as possible,

HAS ADOPTED THIS REGULATION:

*Article 1*

**Amendments to Regulation (EU) No 540/2014**

Regulation (EU) No 540/2014 is amended as follows:

(1) Annex I is amended as follows:

(a) in Appendix 1, the following point 12.8 is added:

12.8. AVAS

12.8.1. Approval number of a type of vehicle with regard to its sound emission pursuant to UNECE Regulation No 138 ([1])

or

12.8.2. Complete reference to the test results of AVAS sound emission levels, measured in accordance with Regulation (EU) No 540/2014 ([1]);

(b) in Appendix 2, the Addendum is amended as follows:

(i) point 3 is replaced by the following:

3. AVAS fitted: yes/no ([1]);

(ii) the following point 4 is added:

4. Remarks…;

(2) Annex VIII is replaced by the text in the Annex to this Regulation.

*Article 2*

**Entry into force**

This Regulation shall enter into force on the third day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 26 June 2017.

*For the Commission*

*The President*

Jean-Claude JUNCKER

**Changes to legislation:** *There are currently no known outstanding effects for the Commission Delegated Regulation (EU) 2017/1576. (See end of Document for details)*

ANNEX

ANNEX VIII

## MEASURES CONCERNING THE ACOUSTIC VEHICLE ALERTING SYSTEM (AVAS)

SECTION I

This Annex sets out measures concerning the Acoustic Vehicle Alerting System (AVAS) for hybrid electric and pure electric vehicles.

I.1. Notwithstanding points 2(a) and (b), the provisions of section II shall apply to an AVAS installed:

(a) in any vehicle type approved before 1 July 2019;

(b) in any new vehicle based on the type referred to in point (a) before 1 July 2021.

I.2. The provisions of section III shall apply to an AVAS installed:

(a) in any vehicle type approved before 1 July 2019, where the manufacturer so chooses;

(b) in any new vehicle based on the type referred to in point (a);

(c) in any vehicle type approved on or after 1 July 2019;

(d) in any new vehicle based on the type referred to in point (c);

(e) in any new vehicle on or after 1 July 2021.

SECTION II

II.1. System performance

If AVAS is installed on a vehicle, it shall comply with the requirements referred to in points II.2 and II.3.

II.2. Operation conditions

(a) Sound generation method

The AVAS shall automatically generate a sound in the minimum range of vehicle speed from start up to approximately 20 km/h and during reversing. Where the vehicle is equipped with an internal combustion engine that is in operation within the vehicle speed range defined above, the AVAS shall not generate a sound.

For vehicles having a reversing sound warning device, it is not necessary for the AVAS to generate a sound whilst reversing.

(b) Switch

The AVAS shall be fitted with a switch which is easily accessible by the vehicle driver in order to allow engaging and disengaging. Upon restarting the vehicle, AVAS shall default to the switched on position.