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**SANS 20028:1972**

Edition 1 and ECE amdts 1, 2, 3 and nat. amdt 1

**ECE R28:1972**

Revision 1 and amdts 1, 2, 3

Any reference to SABS ECE R28 is deemed  
to be a reference to this standard  
(Government Notice No. 1373 of November 2002)

## **SOUTH AFRICAN NATIONAL STANDARD**

# **Uniform provisions concerning the approval of audible warning devices and of motor vehicles with regard to their audible signals**

This national standard is the identical implementation of ECE R28:1972 and ECE amendments 1, 2, 3 and is adopted with the permission of the United Nations Economic Commission for Europe.

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## **SANS 20028:1972**

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## **ECE R28:1972**

Revision 1 and amdts 1, 2, 3

### **Table of changes**

<b>Change No.</b>	<b>Date</b>	<b>Scope</b>
ECE amdt 1	1984	Amended to add definitions and requirements for the approval numbers, to change the requirements for the measurement of sound level, to delete the requirements for sound spectrum, include a maximum value for sound pressure level, and to change the titles of annexes 1 and 2 and the arrangement of the approval mark of the device and to make editorial changes.
ECE amdt 2	1992	Amended to change the scope, the requirements for sound level and the conformity of production, to add requirements for type of electrical supply and for approval.
ECE amdt 3	2001	Amended to add requirements for the measurement of sound level, to change the requirements for conformity of production, and to include distinguishing numbers of countries that grant approval of audible warning devices.
Nat. amdt 1	2004	Amended to add information to the national foreword that relates to the compulsory application of the standard.

### **National foreword**

This South African standard was approved by National Committee SABS TC 76, *Acoustics, electro-acoustics and vibration*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of WTO/TBT agreement.

The text of the ECE documents is reproduced unaltered, including irregular page numbering.

For the compulsory application of this standard, the stringency level, the introduction date, and if needed, any additional requirements will be published in the applicable compulsory specification in the Government Gazette.

**Nat. amdt 1**

**Reaffirmed and reprinted in November 2010.  
This standard will be reviewed every 5 years and  
either be reaffirmed, amended, revised or withdrawn.**

13 July 2001

## AGREEMENT

**CONCERNING THE ADOPTION OF UNIFORM TECHNICAL PRESCRIPTIONS  
FOR WHEELED VEHICLES, EQUIPMENT AND PARTS WHICH CAN BE FITTED AND/OR  
BE USED ON WHEELED VEHICLES AND THE CONDITIONS FOR RECIPROCAL RECOGNITION  
OF APPROVALS GRANTED ON THE BASIS OF THESE PRESCRIPTIONS <sup>\*</sup>/**

(Revision 2, including the amendments entered into force on 16 October 1995)

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### **Addendum 27: Regulation No. 28**

#### **Amendment 3**

Supplement 3 to the original version of the Regulation - Date of entry into force: 28 December 2000

**UNIFORM PROVISIONS CONCERNING THE APPROVAL OF AUDIBLE WARNING DEVICES  
AND OF MOTOR VEHICLES WITH REGARD TO THEIR AUDIBLE SIGNALS**



**UNITED NATIONS**

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<sup>\*</sup>/ Former title of the Agreement:

Agreement Concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958.

GE.01-

E/ECE/324  
E/ECE/TRANS/505 } Rev.1/Add.27/Amend.3  
Regulation No. 28  
page 2

Paragraph 5.5.1., footnote 1/, amend to read:

"1/ 1 for Germany, 2 for France, 3 for Italy, 4 for the Netherlands, 5 for Sweden, 6 for Belgium, 7 for Hungary, 8 for the Czech Republic, 9 for Spain, 10 for Yugoslavia, 11 for the United Kingdom, 12 for Austria, 13 for Luxembourg, 14 for Switzerland, 15 (vacant), 16 for Norway, 17 for Finland, 18 for Denmark, 19 for Romania, 20 for Poland, 21 for Portugal, 22 for the Russian Federation, 23 for Greece, 24 for Ireland, 25 for Croatia, 26 for Slovenia, 27 for Slovakia, 28 for Belarus, 29 for Estonia, 30 (vacant), 31 for Bosnia and Herzegovina, 32 for Latvia, 33 (vacant), 34 for Bulgaria, 35-36 (vacant), 37 for Turkey, 38-39 (vacant), 40 for The former Yugoslav Republic of Macedonia, 41 (vacant), 42 for the European Community (Approvals are granted by its Member States using their respective ECE symbol), 43 for Japan, 44 (vacant), 45 for Australia, 46 for Ukraine and 47 for South Africa. Subsequent numbers shall be assigned to other countries in the chronological order in which they ratify or accede to the Agreement Concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, and the numbers thus assigned shall be communicated by the Secretary-General of the United Nations to the Contracting Parties to the Agreement."

Paragraph 6.2.3.1., amend to read:

"6.2.3.1. in the case of AWDs supplied with direct current, at a voltage measured at the terminal of the electric power source of 13/12 of the rated voltage".

Paragraph 6.2.5., amend to read:

"6.2.5. For AWDs supplied with direct current, the resistance of the connecting leads, expressed in ohms, including terminals and contacts, shall be as close as possible to  $(0,10/12) \times$  rated voltage in volts."

Paragraph 8., amend to read:

"8. CONFORMITY OF PRODUCTION

The conformity of production procedures shall comply with those set out in the Agreement, Appendix 2 (E/ECE/324-E/ECE/TRANS/505/Rev.2) with the following requirements:

- 8.1. AWD approved under this Regulation shall be so manufactured as to conform to the type approved by meeting the requirements set forth in paragraph 6. above.
- 8.2. The authority which has granted type approval may at any time verify the conformity control methods applied in each production facility. The normal frequency of these verifications shall be once every two years."

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E/ECE/TRANS/505 } Rev.1/Add.27/Amend.3  
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page 3

Paragraph 16., amend to read:

"16.1. CONFORMITY OF PRODUCTION

The conformity of production procedures shall comply with those set out in the Agreement, Appendix 2 (E/ECE/324-E/ECE/TRANS/505/Rev.2) with the following requirements :

- 16.1. A vehicle approved under this Regulation shall be so manufactured as to conform to the type approved by meeting the requirements set forth in paragraph 14. above.
- 16.2. The authority which has granted type approval may at any time verify the conformity control methods applied in each production facility. The normal frequency of these verifications shall be once every two years."

Annex 1. item 7, correct to read:

"7. Rated operating pressure(s) .....kg/cm<sup>2</sup>."

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