

COMMISSION DIRECTIVE 97/29/EC

of 11 June 1997

adapting to technical progress Council Directive 76/757/EEC relating to retro-reflectors for motor vehicles and their trailers

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Directive 70/156/EEC of 6 February 1970 relating to the type-approval of motor vehicles and their trailers⁽¹⁾, as last amended by European Parliament and Council Directive 96/79/EC⁽²⁾, and in particular Article 13 (2) thereof,

Having regard to Council Directive 76/757/EEC of 27 July 1976 on the approximation of the laws of the Member States relating to retro-reflectors for motor vehicles and their trailers⁽³⁾, as last amended by the Act of Accession of Austria, Finland and Sweden, and in particular Article 10 thereof,

Whereas Directive 76/757/EEC is one of the separate Directives of the EC type-approval procedure which has been established by Directive 70/156/EEC; whereas, consequently, the provisions laid down in Directive 70/156/EEC relating to vehicle systems, components and separate technical units apply to this Directive;

Whereas, in particular, Articles 3 (4) and 4 (3) of Directive 70/156/EEC require each separate Directive to have attached to it an information document and also a type-approval certificate based on Annex VI to that Directive in order that type-approval may be computerized; whereas the type-approval certificate provided for in Directive 76/757/EEC must be amended accordingly;

Whereas the procedures need to be simplified in order to maintain the equivalence envisaged by Article 9 (2) of Directive 70/156/EEC between certain separate Directives and the corresponding regulations of the United Nations' Economic Commission for Europe when the said regulations are amended; whereas, as a first step, the technical requirements of Directive 76/757/EEC need to be replaced by those of Regulation No 3 by way of cross-reference;

Whereas reference is made to Council Directive 76/756/EEC⁽⁴⁾, as last amended by Commission Directive 97/28/EC⁽⁵⁾;

Whereas a discrepancy in the technical terminology used has been noted between the English version of Directive 76/757/EEC and the other language versions; whereas it is desirable to correct that language version;

Whereas the measures provided for in this Directive are in accordance with the opinion of the Committee for Adaptation to Technical Progress established by Directive 70/156/EEC,

HAS ADOPTED THIS DIRECTIVE:

Article 1

Directive 76/757/EEC is hereby amended as follows:

1. The title term 'reflex reflector(s)' is replaced by the term 'retro-reflectors'.
2. Article 1 (1) is replaced by the following:

'1. Each Member State shall grant EC component-type-approval for any type of retro-reflector which satisfies the construction and texting requirements laid down in the relevant Annexes.'

3. The first paragraph of Article 2 is replaced by the following:

'Member States shall, for each type of retro-reflector which they approve pursuant to Article 1, issue to the manufacturer an EC component type-approval mark conforming to the model shown in Annex I, Appendix 3.'

4. Article 4 is replaced by the following:

Article 4

The competent authorities of the Member States shall inform each other, by means of the procedure specified in Article 4 (6) of Directive 70/156/EEC, of each approval which they have granted, refused or withdrawn pursuant to this Directive.'

⁽¹⁾ OJ No L 42, 23. 2. 1970, p. 1.

⁽²⁾ OJ No L 18, 21. 1. 1997, p. 7.

⁽³⁾ OJ No L 262, 27. 9. 1976, p. 32.

⁽⁴⁾ OJ No L 262, 27. 9. 1976, p. 1.

⁽⁵⁾ See p. 1 of this Official Journal.

5. Article 9 is replaced by the following:

Article 9

For the purposes of this Directive, "vehicle" means any motor vehicle intended for use on the road, with or without bodywork, having at least four wheels and a maximum design speed exceeding 25 km/h, and its trailers, with the exception of vehicles which run on rails and of agricultural and forestry tractors and all mobile machinery.'

6. The Annexes are replaced by the Annex to this Directive.

Article 2

1. From 1 January 1998, or, if the publication of the texts referred to in Article 3 is delayed beyond 1 July 1997, six months after the actual date of publication of these texts, Member States may not, on grounds relating to retro-reflectors:

- refuse, in respect of a type of vehicle or a type of retro-reflector, to grant EC type-approval or national type-approval, or
- prohibit the registration, sale or entry into service of vehicles, or the sale or entry into service of retro-reflectors,

provided that the retro-reflectors comply with the requirements of Directive 76/757/EEC, as amended by this Directive, and that, as far as vehicles are concerned, they are installed in accordance with the requirements laid down in Directive 76/756/EEC.

2. From 1 October 1998 Member States:

- shall no longer grant EC type-approval, and
- may refuse to grant national type-approval

for any type of vehicle on grounds relating to retro-reflectors, and for any type of retro-reflector, if the requirements of Directive 76/757/EEC, as amended by this Directive, are not fulfilled.

3. From 1 October 1999 the requirements of Directive 76/757/EEC relating to retro-reflectors as components, as amended by this Directive, shall be applicable for the purposes of Article 7 (2) of Directive 70/156/EEC.

4. Notwithstanding paragraphs 2 and 3 above, for the purposes of replacement parts Member States shall continue to grant EC type-approval of retro-reflectors, and to permit their sale and entry into service, in accordance with previous versions of Directive 76/757/EEC, provided that such retro-reflectors

- are intended to be fitted to vehicles already in use, and

— comply with the requirements of that Directive which were applicable when the vehicles were first registered.

Article 3

The paragraphs and annexes of UN-ECE Regulation No 3 referred to in Annex II, item 2.1, shall be published in the *Official Journal of the European Communities* before 1 July 1997.

Article 4

1. Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this Directive by 1 January 1998; however, if the publication of the texts referred to in Article 3 is delayed beyond 1 July 1997, the Member States shall comply with this obligation six months after the actual date of publication of these texts. They shall forthwith inform the Commission thereof.

They shall apply those provisions from 1 January 1998, or, if the publication of the texts referred to in Article 3 is delayed beyond 1 July 1997, six months after the actual date of publication of those texts.

When Member States adopt these provisions, they shall contain a reference to this Directive or shall be accompanied by such reference at the time of their official publication. The procedure for such reference shall be adopted by Member States.

2. Member States shall communicate to the Commission the texts of the main provisions of national law which they adopt in the field covered by this Directive.

Article 5

This Directive shall enter into force on the 20 day following its publication in the *Official Journal of the European Communities*.

Article 6

This Directive is addressed to the Member States.

Done at Brussels, 11 June 1997.

For the Commission
Martin BANGEMANN
Member of the Commission

ANNEX

LIST OF ANNEXES

ANNEX I: Administrative provisions for type-approval

Appendix 1: Information document

Appendix 2: Type-approval certificate

Appendix 3: Models of the EC component type-approval mark

ANNEX II: Scope and technical requirements

ANNEX I

ADMINISTRATIVE PROVISIONS FOR TYPE-APPROVAL

1. APPLICATION FOR EC COMPONENT TYPE-APPROVAL

- 1.1. The application for EC component type-approval pursuant to Article 3 (4) of Directive 70/156/EEC of a type of retro-reflector shall be submitted by the manufacturer.
- 1.2. A model for the information document is given in Appendix 1.
- 1.3. The following must be submitted to the technical service responsible for conducting the type-approval tests:
 - 1.3.1. in the case of retro-reflectors of either Class I A or III A,
 - 1.3.1.1. ten (10) samples of the colour specified by the manufacturer;
 - 1.3.1.2. if necessary, two samples in other colour(s) for simultaneous or subsequent extension of the approval to retro-reflectors in other colour(s);
 - 1.3.2. in the case of retro-reflectors of Class IV A, ten (10) samples and, if necessary, the means of fixation.

2. MARKINGS

- 2.1. The devices submitted for EC component type-approval must bear:
 - 2.1.1. the trade name or mark of the manufacturer;
 - 2.1.2. the mark "TOP" appearing horizontally at the top of the illuminating surface, if required to determine unequivocally the angle or angles of rotation specified by the manufacturer.
- 2.2. These markings shall be clearly legible and indelible and shall be affixed to the illuminating surface, or to one of the illuminating surfaces, of the device. They shall be visible from the exterior when the device is fitted to the vehicle.
- 2.3. Each device shall have sufficient space for the component type-approval mark. This space shall be indicated on the drawings referred to in Appendix I.

3. GRANTING OF EC COMPONENT TYPE-APPROVAL

- 3.1. If the relevant requirements are satisfied, EC type-approval pursuant to Article 4 (3) and, if applicable, 4 (4) of Directive 70/156/EEC shall be granted.
- 3.2. A model for the EC type-approval certificate is given in Appendix 2.
- 3.3. An approval number in accordance with Annex VII to Directive 70/156/EEC shall be assigned to each type of retro-reflector approved. The same Member State shall not assign the same number to another type of retro-reflector.
- 3.4. Where EC component type-approval is requested for a type of lighting and light-signalling device comprising a retro-reflector and other lamps, a single EC component type-approval number may be assigned provided that the retro-reflector complies with the requirements of this Directive and that each of the other lamps forming part of the lighting and light-signalling device for which EC component type-approval is requested complies with the separate Directive applying to it.

4. EC COMPONENT TYPE-APPROVAL MARK

- 4.1. In addition to the markings referred to in item 2.1. every retro-reflector conforming to the type approved pursuant to this Directive shall bear an EC component type-approval mark.

- 4.2. This mark shall consist of:
- 4.2.1. a rectangle surrounding the letter "e" followed by the distinguishing number or letters of the Member State which has granted type-approval:
- | | |
|---------------------------|-------------------|
| 1 for Germany | 12 for Austria |
| 2 for France | 13 for Luxembourg |
| 3 for Italy | 17 for Finland |
| 4 for the Netherlands | 18 for Denmark |
| 5 for Sweden | 21 for Portugal |
| 6 for Belgium | 23 for Greece |
| 9 for Spain | IRL for Ireland; |
| 11 for the United Kingdom | |
- 4.2.2. in the vicinity of the rectangle the "base approval number" contained in section 4 of the type-approval number referred to in Annex VII of Directive 70/156/EEC, preceded by the two figures indicating the sequence number assigned to the most recent major technical amendment to Directive 76/757/EEC on the date EC type-approval was granted. In this Directive the sequence number is 02;
- 4.2.3. an additional symbol as follows:
- 4.2.3.1. "IA", "III A" or "IV A" denoting the class in which the retro-reflector was placed when approved.
- 4.3. The EC component type-approval mark shall be affixed to the light-emitting surface of the retro-reflector in such a way as to be indelible and clearly legible even when the retro-reflector is fitted to the vehicle.
- 4.4. Examples of the EC component type-approval mark are given in Appendix 3, Figure 1.
- 4.5. Where a single EC component type-approval number is issued, as per item 3.4 above, for a type of lighting and light-signalling device comprising a retro-reflector and other lamps, a single EC component type-approval mark may be affixed, consisting of:
- 4.5.1. a rectangle surrounding the letter "e" followed by the distinguishing number or letters of the Member State which has granted type-approval (see item 4.2.1);
- 4.5.2. the base approval number (see item 4.2.2, first half-sentence);
- 4.5.3. if necessary, the required arrow, in so far as it relates to the lamp assembly as a whole.
- 4.6. This mark may be located anywhere on the lamps which are grouped, combined or reciprocally incorporated, provided that:
- 4.6.1. it is visible after the installation of the lamps;
- 4.6.2. no light-transmitting components of the grouped, combined or reciprocally incorporated lamps can be removed without simultaneously removing the approval mark.
- 4.7. The identification symbol for each lamp corresponding to each Directive pursuant to which EC component type-approval was granted, together with the sequence number (see item 4.2.2, second half-sentence) and, where necessary, the letter "D" and the required arrow shall be marked:
- 4.7.1. either on the appropriate light-emitting surface;
- 4.7.2. or in a group, in such a way that each of the grouped, combined or reciprocally incorporated lamps may be clearly identified.
- 4.8. The dimensions of the components of this mark must not be less than the minimum dimensions specified for individual marks by the various Directives pursuant to which EC component type-approval was granted.

- 4.9. Examples of an EC component type-approval mark for a lamp that is grouped, combined or reciprocally incorporated with other lamps are given in Appendix 3, Figure 2.

5. MODIFICATIONS OF THE TYPE AND AMENDMENTS TO APPROVALS

- 5.1. In the case of modifications of the type approved pursuant to this Directive, the provisions of Article 5 of Directive 70/156/EEC shall apply.
- 5.2. Where type-approval is extended to a retro-reflector differing only in colour, the samples of each other colour, submitted in accordance with item 1.3.1.2 above, must meet only the colorimetric specifications; the other tests need not be repeated.

This paragraph does not apply to class IV A retro-reflectors.

6. CONFORMITY OF PRODUCTION

- 6.1. As a general rule, measures to ensure the conformity of production shall be taken in accordance with the provisions laid down in Article 10 of Directive 70/156/EEC.
- 6.2. In mechanical and geometrical terms, conformity shall be considered satisfactory if the differences do not exceed the variations inherent in industrial production.
- 6.3. Conformity of production shall not be invalidated if all the photometric measurements performed on a specimen selected at random meet at least 80 % of the specification.
- 6.4. If the condition laid down in paragraph 6.3 is not met, a further sample of five units shall be selected at random. The average of each type of photometric measurement must meet the specification and no individual measurement may be less than 50 % of the specification.

Appendix 1

Information document No ...

relating to the EC component type-approval of retro-reflectors

(Directive 76/757/EEC, as last amended by Directive .../.../EC)

The following information, if applicable, must be supplied in triplicate and include a list of contents. Any drawings must be supplied in appropriate scale and in sufficient detail on size A4 or on a folder of A4 format. Photographs, if any, must show sufficient detail.

If the systems, components or separate technical units have electronic controls, information concerning their performance must be supplied.

0. GENERAL

- 0.1. Make (trade name of manufacturer):
- 0.2. Type and general commercial description(s):
- 0.5. Name and address of manufacturer:
- 0.7. In the case of components and separate technical units, location and method of affixing of the EC approval mark:
- 0.8. Address(es) of assembly plant(s):

1. DESCRIPTION OF THE DEVICE

- 1.1. Type of device:
- 1.1.1. Device function(s):
- 1.1.2. Category or class of device:
- 1.1.3. Colour of the light emitted or reflected:
- 1.2. Drawing(s) in sufficient detail to permit identification of the type of the device and showing
- 1.2.1. in what geometrical position the device is to be mounted on the vehicle (not applicable to rear registration plate lamps):
- 1.2.2. the axis of observation to be taken as the axis of reference in the tests (horizontal angle $H = 0^\circ$, vertical angle $V = 0^\circ$) and the point to be taken as the centre of reference in the said tests (not applicable to retro-reflecting devices and rear registration plate lamps):
- 1.2.3. the position intended for the EC component type-approval mark:
- 1.2.4. for rear registration plate lamps, the geometrical position in which the device is to be fitted in relation to the space to be occupied by the registration plate, and the outline of the area adequately illuminated:
- 1.2.5. for headlamps and front fog lamps, a frontal view of the lamps with details of lens ribbing, if any, and the cross section:
- 1.3. A brief technical description stating, in particular, with the exception of lamps with non-replaceable light sources, the category or categories of light sources prescribed which shall be one or more of those contained in Directive 76/761/EEC (not applicable to retro-reflecting devices):
.....
- 1.4. Specific information

- 1.4.1. For rear registration plate lamps, a statement whether the device is intended to illuminate a wide/tall/both wide and tall plate:
- 1.4.2. For headlamps,
- 1.4.2.1. information whether the headlamp is intended to provide both a dipped beam and main beam or only one of those beams:
- 1.4.2.2. information in case the headlamp is intended to provide a dipped beam, if it is designed for both left-hand and right-hand traffic or for either left-hand or right-hand traffic only:
- 1.4.2.3. if the headlamp is equipped with an adjustable reflector, an indication of the mounting position(s) of the headlamp in relation to the ground and the longitudinal median plane of the vehicle, if the headlamp is for use in that (those) position(s) only:
- 1.4.3. For position lamps, stop lamps and direction indicators,
- 1.4.3.1. if the device may also be used in an assembly of two lamps of the same category:
- 1.4.3.2. in the case of device with two levels of intensity (stop lamps and category 2b direction indicators) arrangement diagram and specification of the characteristics of the system ensuring the two levels of intensity:
- 1.4.4. For retro-reflecting devices, a brief description giving the technical specifications of the materials of the retro-reflecting optical unit:
- 1.4.5. For reversing lamps, a statement whether the device is intended to be installed on a vehicle exclusively in a pair of devices:

Appendix 2

MODEL

(maximum format: A4 (210 × 297 mm))

EC TYPE-APPROVAL CERTIFICATE

Stamp of administration

Communication concerning the

- type-approval⁽¹⁾
- extension of type-approval⁽¹⁾
- refusal of type-approval⁽¹⁾
- withdrawal of type-approval⁽¹⁾

of a type of a vehicle/component/separate technical unit⁽¹⁾ with regard to Directive .../.../EEC, as last amended by Directive .../.../EC

Type-approval number:

Reason for extension:

SECTION I

- 0.1. Make (trade name of manufacturer):
- 0.2. Type and general commercial description(s):
- 0.3. Means of identification of type if marked on the vehicle/component/separate technical unit⁽¹⁾⁽²⁾:
.....
- 0.3.1. Location of that marking:
- 0.4. Category of vehicle⁽¹⁾⁽³⁾:
- 0.5. Name and address of manufacturer:
- 0.7. In the case of components and separate technical units, location and method of affixing of the EC approval mark:
- 0.8. Address(es) of assembly plant(s):

SECTION II

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:
9. The index to the information package lodged with the approval authority, which may be obtained on request, is attached.

⁽¹⁾ Delete where not applicable.

⁽²⁾ If the means of identification of type contains characters not relevant to describe the vehicle, component or separate technical unit types covered by this type-approval certificate such characters shall be represented in the documentation by the symbol: "?" (e. g. ABC??123??).

⁽³⁾ As defined in Annex II A to Directive 70/156/EEC.

Addendum to EC type-approval certificate No ...

concerning the component type-approval of a lighting and/or light-signalling device with regard to Directive(s) 76/757/EEC; 76/758/EEC; 76/759/EEC; 76/760/EEC; 76/761/EEC; 76/762/EEC; 77/538/EEC; 77/539/EEC and 77/540/EEC⁽¹⁾ as last amended by Directive(s) ...

1. ADDITIONAL INFORMATION

1.1. Where applicable, indicate for each lamp

1.1.1. The category(ies) of the device(s):

1.1.2. The number and category of light sources (not applicable to retro-reflector)⁽²⁾

1.1.3. The colour of the light emitted or reflected:

1.1.4. Approval granted solely for use as a replacement part on vehicles already in service: Yes/No⁽¹⁾

1.2. Specific information for certain types of lighting or light-signalling devices

1.2.1. For retro-reflecting devices: In isolation/part of an assembly of devices⁽¹⁾

1.2.2. For rear registration plate lamps: Device for illuminating a tall plate/a wide plate⁽¹⁾

1.2.3. For headlamps: If equipped with an adjustable reflector, the mounting position(s) of the headlamp in relation to the ground and the longitudinal median plane of the vehicle, if the headlamp is for use in that (those) position(s) only:

1.2.4. For reversing lamps: This device shall be installed on a vehicle type only as part of a pair of devices: Yes/No⁽¹⁾

5. REMARKS

5.1. Drawings

5.1.1. For rear registration plate lamps: the attached drawing No ... shows the geometric position in which the device is to be fitted in relation to the space to be occupied by the registration plate, and the outline of the area adequately illuminated;

5.1.2. For retro-reflecting devices: the attached drawing No ... shows the geometric position in which the device is to be fitted to the vehicle;

5.1.3. For all other lighting and light-signalling devices: the attached drawing No ... shows the geometric position in which the device is to be fitted to the vehicle, and the axis of reference and centre of reference of the device.

5.2. For headlamps: Operating mode used during the test (item 5.2.3.9 of Annex I to Directive 76/761/EEC):

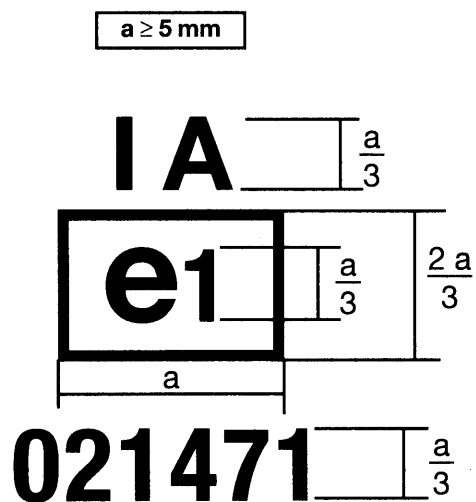
⁽¹⁾ Delete where not applicable.

⁽²⁾ For lamps with non-replaceable light sources, indicate the number and the total wattage of the light sources.

Appendix 3

EXAMPLES OF THE EC COMPONENT TYPE-APPROVAL MARK

Figure 1



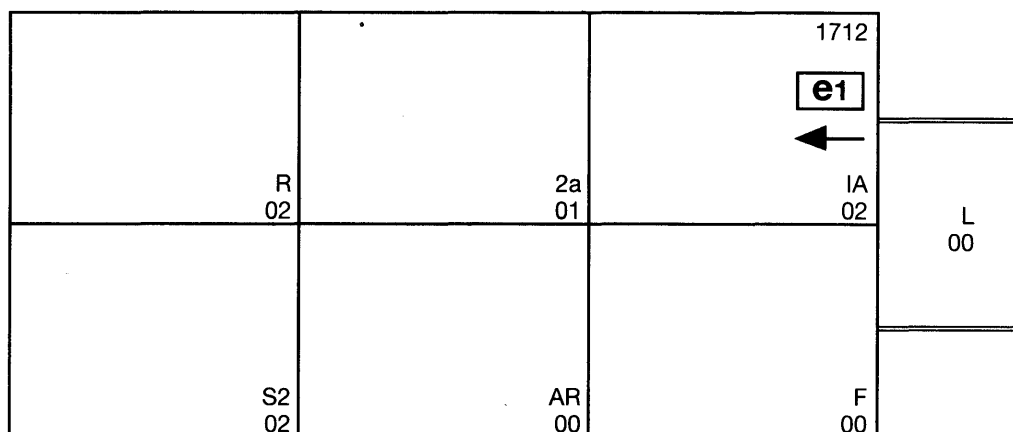
The device bearing the EC component type-approval mark shown above is a class I A retro-reflector, type approved in Germany (e1) pursuant to this Directive (02) under the base approval number 1471.

Figure 2

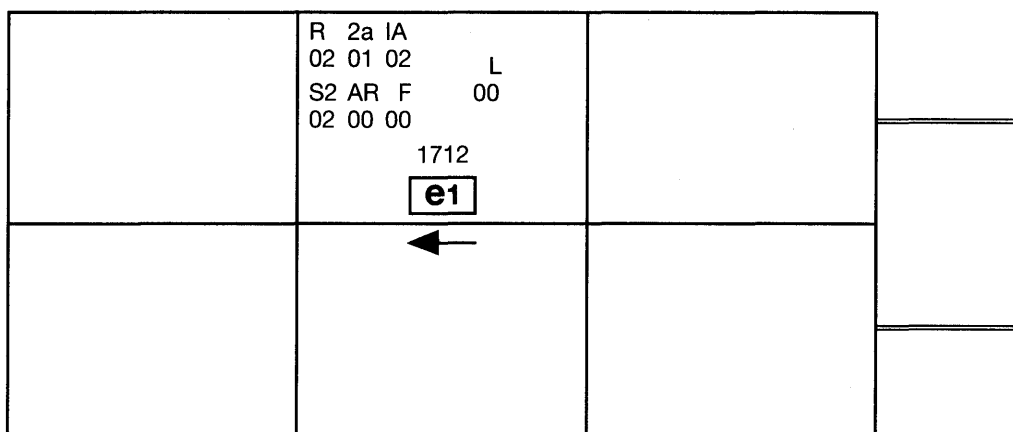
Simplified marking of grouped, combined or reciprocally incorporated lamps when two or more lamps are part of the same assembly

(The vertical and horizontal lines schematize the shape of the light-signalling device. These are not part of the approval mark).

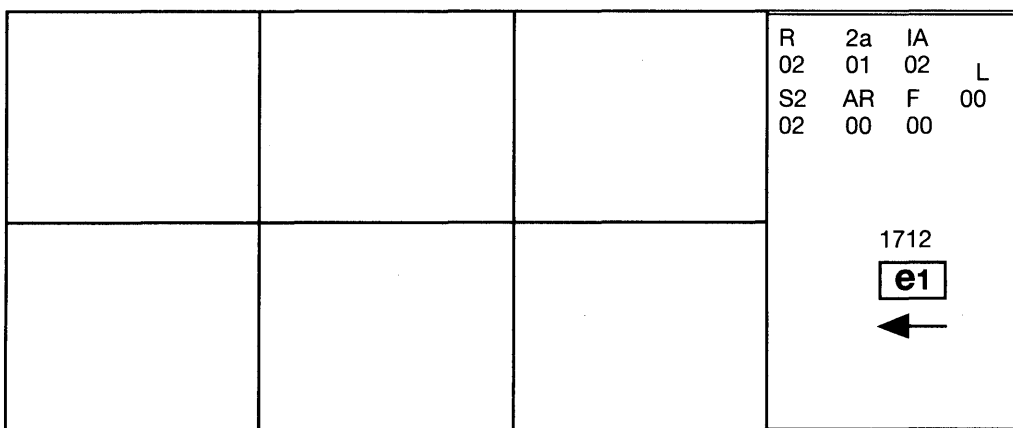
MODEL A



MODEL B



MODEL C



Note: The three examples of approval marks, models A, B, and C represent three possible variants of the marking of a lighting and light-signalling device when two or more lamps are part of the same unit of grouped, combined or reciprocally incorporated lamps. This approval mark shows that the device was approved in Germany (e1) under the base approval number 1712 and comprises:

A retro-reflector of class IA approved in accordance with Directive 76/757/EEC, sequence No 02;

A rear direction indicator of category 2a approved in accordance with Council Directive 76/759/EEC (OJ No L 262, 27. 9. 1976, p. 71), sequence No 01;

A red rear position lamp (R) approved in accordance with Annex II to Council Directive 76/758/EEC (OJ No L 262, 27. 9. 1976, p. 54), sequence No 02;

A rear fog lamp (F) approved in accordance with Council Directive 77/538/EEC, sequence No 00;

A reversing lamp (AR) approved in accordance with Council Directive 77/539/EEC (OJ No L 220, 29. 8. 1977, p. 60), sequence No 00;

A stop lamp with two levels of intensity (S2) approved in accordance with Annex II to Directive 76/758/EEC, sequence No 02;

A rear registration plate lamp (L) approved in accordance with Council Directive 76/760/EEC (OJ No L 262, 27. 9. 1976, p. 85), sequence No 00.

ANNEX II

SCOPE AND TECHNICAL REQUIREMENTS

1. SCOPE

This Directive applies to retro-reflectors for motor vehicles and their trailers.

2. TECHNICAL REQUIREMENTS

2.1. The technical requirements are those set out in paragraphs 2, 6 and 7 and Annexes 1 and 4 to 15 of UN-ECE Regulation No 3 which consists of a consolidation of the following documents:

- the 01 and 02 series of amendments⁽¹⁾;
- the Supplement 1 to 02 series of amendments⁽²⁾;
- the Supplement 2 to 02 series of amendments⁽³⁾;
- the Supplement 3 to 02 series of amendments⁽⁴⁾,

except that:

2.1.1. Where reference is made to "Regulation No 48", this shall be understood as "Directive 76/756/EEC".

⁽¹⁾ E/ECE/324
E/ECE/TRANS/505 } Add.2/Rev.1 and . . . /Rev.1/Amend.1.
⁽²⁾ E/ECE/324
E/ECE/TRANS/505 } Add.2/Rev.1/Amend.2.
⁽³⁾ E/ECE/324
E/ECE/TRANS/505 } Add.6/Rev.1/Amend.3.
⁽⁴⁾ TRANS/WP29/446.