

JIS

JAPANESE INDUSTRIAL STANDARD

Emergency Warning Lamps for Automobiles

JIS D 5714-1981

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Translated
by
Japanese Standards Association

1-24, Akasaka 4, Minato-ku
Tokyo 107 Japan

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1. Scope

This Japanese Industrial Standard specifies emergency warning lamps for automobiles intended to tell that a car is stopping on a road due to some trouble to other vehicles by placing them on the road, hereinafter referred to as the "warning lamps".

2. Classification

Warning lamps are classified into 12 V lamps and 24 V lamps.

3. Construction

3.1 Construction in General The warning lamp shall consist of a lamp body, globe and cord with plug, and shall generally be structured as follows:

- (1) It shall turn on, operate and generate a flashlight signal by means of rotation of reflecting mirror and colour of globe when the plug of cord is pushed in a cigar lighter socket, located in an automobile.
- (2) It shall have a leg part which allows stable placing of lamp on a road
- (3) It shall be easily handled and shall not give harm to a man.
- (4) Its electrical mechanism and mechanical mechanism shall not cause any trouble due to vibration and/or ambient temperature during storage.

3.2 Lamp Body The lamp body shall be constructed as follows:

- (1) The lamp body shall consist of a lamp, reflecting mirror, rotational driving device, etc. and such electrical and mechanical mechanisms are protected.
- (2) The lamp turns on, the reflecting mirror connected with the rotational driving device rotates and flashlight is radiated in horizontal direction through an angle of 360 degrees when the current is supplied through the cord with plug.

No structure which obstruct the flashlight shall exist in the directions of flashlight radiation.

- (3) The globe shall be firmly fixed and capable of being replaced.

3.3 Globe The globe shall be so constructed that no part which remarkably obstructs the flashlight exists in the range of the effective projected area⁽¹⁾ of globe (see Attached Fig. 1).

Note (1) This means the area caused on the globe by the extreme ends of effective projection area of the reflecting mirror when the mirror rotates horizontally through an angle of 360 degrees.

3.4 Cord with Plug The cord with plug shall be as follows:

- (1) The cord shall be the VFF 0.5 mm² or larger specified in JIS C 3306. However, the thickness of p.v.c. insulation may be 0.6 mm or more in nominal thickness.
- (2) The cord shall be firmly connected with the lamp body and the plug.
- (3) The plug shall be so structured that good conduction is obtained when inserted into a cigar lighter socket and also easily plugged in and taken out.

4. Shape and Dimensions

The shape and dimensions of warning lamp shall be as follows:

- (1) The size of warning lamp and the height of leg part shall be as illustrated in Attached Fig. 2. However, the cord with plug is excluded from this drawing.
- (2) The lamps and sockets shall be as follows:
 - (a) The lamps shall be those with the lamp numbers shown in Table 1 complying with the provisions of JIS C 7506.

Table 1

Classification	Lamp number
For 12 V	M 2942
For 24 V	M 2964

- (b) The socket shall be the BA 15 specified in JIS C 7709.
- (3) The effective projection area of reflecting mirror⁽²⁾ (see Attached Fig. 3) shall be not less than 40 mm² and shall include a circle of 35 mm or more in diameter.

Note (2) This means the projected area of reflecting mirror to a vertical plane correctly facing to the mirror. If the projected area of lamp base, socket, and other parts which obstacle the signal light is included in the said area, the area referring to such parts is excluded.

- (4) The globe shall be as follows:
- (a) The shape of globe shall be roundish like cylindrical, spherical or streamline as illustrated in Attached Fig. 4.
 - (b) The thickness of globe shall be not less than 1.5 mm and be uniform in the range of effective projection area of globe⁽¹⁾.

However this requirement is not applicable for the part necessary to mount the globe to the body.

- (5) The length of a cord with plug means the length from outside of the lamp body to the joint with the plug and shall be as given in Table 2.

Table 2

Classification	Length of cord
For 12 V	6 m min.
For 24 V	8 m min.

- (6) The dimensions of plug shall, as a rule, be as given in Attached Fig. 5.

5. Appearance

The appearance of warning lamp shall be as follows:

- (1) There shall be no sharp edge, projection, etc. dangerous in handling on the outside of lamp body. If the metal part is coated with metal or paint, there shall be no exposure of base metal, rust, blister, peel-off, etc. and also no remarkable pinhole, pit, etc.
- (2) There shall be no exposure of base material, scratch, rust, distortion, crack, peel-off of metal coating, etc. on the reflecting surface of the reflecting mirror.
- (3) There shall be no colour patches, blister, crinkle, distortion, crack, etc. on the globe.
- (4) The cord with plug shall have no exposure of component wires, the plug shall have no crack, chip, etc. and its contact electrodes shall have no rust.

6. Metal Coating and Painting

6.1 Lamp Body The metal coating or painting of metal parts on the outside surface, if applied, shall be as follows: