

Attachment 33

**TECHNICAL STANDARD
FOR WARNING DEVICES THAT GIVE WARNING SIGNALS
IN EVENT OF NON-USE OF DRIVER'S SEAT BELT**

1. Scope

This technical standard shall apply to motor vehicles (except vehicles mentioned from 1-1 to 1-8). However, respecting the components associated with warning while the vehicle is running, this technical standard shall apply only to motor vehicles used exclusively for carriage of passengers and having a capacity of 10 persons or less.

1-1 Ordinary-sized motor vehicles and small-sized motor vehicles used exclusively for carriage of passengers and having a capacity of 11 persons or more.

1-2 Ordinary-sized motor vehicles used for transport of cargo

1-3 Two-wheeled motor vehicles

1-4 Two-wheeled motor vehicles with sidecars

1-5 Large-sized special motor vehicles

1-6 Small-sized special motor vehicles

1-7 Motor vehicles with a maximum speed of up to 20km/h

1.8 Trailers

2. Definitions

2-1 "Warning Device Display" is warning by means of glowing or flashing of the warning device lamp or by means of screen display.

2-2 "Warning Device Alarm" is warning by means of warning device sound.

2-3 "Initial Warning" is warning by the warning device in cases where the driver starts to run the vehicle without having fastened his/her seatbelt.

2-4 "Seat Belt Unfastened" means the condition in which the buckle of the

driver's seat belt is not fastened or the length of webbing drawn from the seat belt retractor is 10 cm or less.

2-5 "Seat Belt Fastened" means the condition in which the driver occupies the driver's seat with the seat belt fastened around him/her.

2-6 "Ignition Switch Engaged" means the condition in which the ignition switch is at the position of ON or START.

2-7 "Warning During Running" means warning by the warning device while the vehicle is running and the driver has not fastened his/her seat belt.

3. General Specifications

3-1 The warning device display shall be bright enough that it can be easily seen even in daylight and clearly distinguished from other warnings (except for seat belt-related warnings).

3-2 The warning device display shall be installed at a position where the driver can easily see it.

3-3 The colour of the warning device display lamp shall be red (except for letters).

3-4 The warning device alarm shall give warning by continuous or intermittent ringing.

3-5 In the event that the warning device alarm rings upon initial warning, the sound must be loud enough to be clearly heard by the driver while the vehicle engine is idling (transmission is in neutral and the accelerator pedal is not depressed).

3-6 The setting for warning during running shall be in compliance with any one of entries 3-6-1 to 3-6-3 below or in a combination of two or more of these entries.

3-6-1 When the setting to start warning during running is made by setting the speed, the speed must be no faster than 25km/h.

3-6-2 When the setting to start warning during running is made by setting the time period, the time period set must be no longer than 60 seconds. In this case, time periods can be added up except those periods given in 3-6-2-1 and 3-6-2-2.

3-6-2-1 The time the vehicle is traveling in reverse and the time when the vehicle is going forward at a speed under 10km/h.

3-6-2-2 The time up to completion of initial warning.

3-6-3 When the setting to start warning during running is made by setting the distance, the distance set must be no longer than 500m. In this case, distance increments can be added up except for the distance the vehicle travels in reverse or the distance the vehicle travels forward at a speed under 10km/h.

3-7 Warning during running must begin whenever the conditions are as prescribed in 3-6. However, warning during running need not operate when the vehicle is traveling in reverse or the vehicle is going forward at a speed under 10km/h.

3-8 The sound of the warning device for warning during running must be easily distinguishable to the driver when the vehicle is traveling over a dry, paved surface at a speed of 25km/h.

4. Test Procedures

4-1 Test Procedure for Initial Warning

4-1-1 With the test vehicle stopped and the ignition switch engaged while the seat belt is unfastened, confirm that initial warning is operational.

4-1-2 After the initial warning has operated, fasten the seat belt and check the operational status of the initial warning device.

4-2 Test Procedure for Warning During Running

4-2-1 In the case that the initial warning stops after elapse of a fixed time period, once the initial warning has stopped, check warning during running as prescribed in 4-2-2. If the initial warning does not stop after elapse of a fixed time period, check warning during running as prescribed in 4-2-2 while the initial warning is operating.

4-2-2 With the seat belt unfastened, accelerate the test vehicle from its fully stopped position until the vehicle reaches a fixed speed of 25+10-0km/h and has run for at least 60 seconds, traveling a distance of at least 500m, then check the operational status of warning during running.

5. Judgment Standards

5-1 Initial Warning

Initial warning shall conform to any one of the sets of requirements given in entries 5-1-1 to 5-1-3. However, in the event that a warning device has been set to operate for a seat other than the driver's seat, that device can operate even if the seatbelt for the driver's seat has been fastened. (The same applies in 5-2 below.)

5-1-1 With the seat belt unfastened, the warning device display shall be operational after the ignition switch has been engaged. However, when the seat belt has been fastened, there shall be no warning from the device except a warning signal for a duration of 8 seconds or less after the ignition switch has been engaged.

5.1.2 With the seat belt unfastened, the warning device display shall operate and the warning device alarm shall ring for a period of 4 seconds or longer after the ignition switch has been engaged. However, when the seat belt has been fastened, there shall be no warning except a warning device display for a duration of 8 seconds or less after the ignition switch has been engaged.

5-1-3 With the seat belt unfastened, the warning device alarm shall ring for a period of 4 to 8 seconds after the ignition switch has been engaged, and the warning device display shall operate for at least 60 seconds.

5-2 Warning During Running

In the event that the test of 4-2-2 has been performed on a motor vehicle used exclusively for passenger carriage and having a capacity of 10 persons or less, warning during running shall begin. In this case, the display and alarm for warning during running shall each be operative for 30 seconds or longer (except for cases in which the warning stops for over 3 seconds).