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## **Passenger car—Seat belt anchorage—Position and strength of mounting**

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## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS D 4609:1988** is replaced with this Standard.

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## Passenger car—Seat belt anchorages— Position and strength of mounting

**1 Scope** This Japanese Industrial Standard specifies methods of mounting automobile seat belts specified in **JIS D 4604** to be used for the forward-facing seats for passenger cars (hereafter referred to as “vehicles”) and the strength of the mountings.

Remarks : The normative references to this Standard are as follows:

JIS B 0208 *Unified fine screw threads*

JIS B 0212 *Limits of sizes and tolerances for unified fine screw threads*

JIS B 1001 *Diameter of clearance holes and counterbores for bolts and screws*

JIS D 0024 *Road vehicles—Procedure for H-point determination*

JIS D 4604 *Automotive parts—Seat belt*

JIS D 4607 *Three dimensional manikins for use in defining automobile seating accommodations*

**2 Definition of terms** For the purpose of this Standard, terms and definitions shall be in accordance with **JIS D 4604** and **JIS D 0024** and the following.

- (1) **mounting** portion on the vehicle where a seat belt or intermediate guide is mounted
- (2) **vehicle mounted type** such type that the complete mounting for one seat belt set is provided in the construction of the vehicle
- (3) **seat built-in type** such type that the mounting of one seat belt set is provided in part or completely in the construction of the seat
- (4) **lower mounting** mounting for a lap belt
- (5) **upper mounting** mounting portion of a shoulder strap for a three-point seat belt on the vehicle (See figures 1 and 9)
- (6) **intermediate guide mounting** mounting portion of the intermediate guide on the vehicle (See figure 3)
- (7) **single mounting** mounting where one end of a seat belt set is mounted (See figure 1)
- (8) **dual mounting** mounting where the ends of two sets of seat belts are mounted commonly (See figure 2)
- (9) **point H'** point on the seat corresponding to point H (hip point) of the three-dimensional manikin (human model) specified in **JIS D 4607** or **JIS D 0024** when the manikin is seated (See figure 9)
- (10) **point R** design reference point on the seat corresponding to point H on the

three-dimensional manikin obtained while the seat is adjusted as follows: with the seat adjusted to the full rear position (design viewpoint) for seats adjustable in the forward and rear directions, with the seat back set at the design reference point for seats that allow adjustments of the seat back angle, or with the torso line of the manikin inclined up to 25 degrees from the plumb line and other adjusting mechanisms set to the design reference point (See figure 10)

- (11) **seat belt mounting point** centre point on the screw hole or bolt hole mounting plane of the mounting

However, in cases where the mounting fixture, intermediate guide or seat frame constrain the webbing to which load is applied, the point where the webbing makes contact with these members (See figure 9).

- (12) **lower mounting angle** angle formed between a line connecting the seat belt mounting point and point H', and the horizontal reference line of vehicle

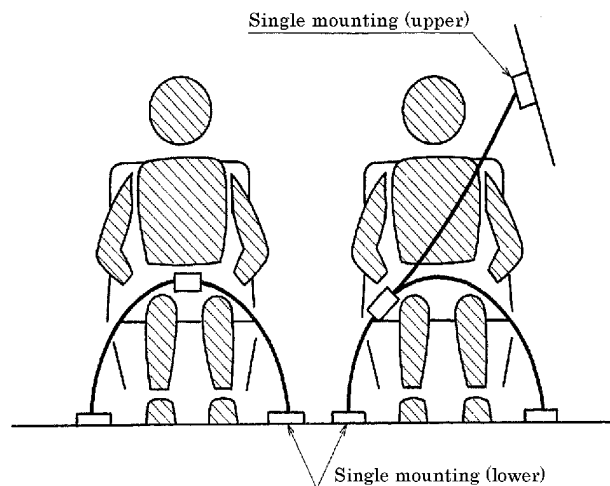


Figure 1 Single mounting

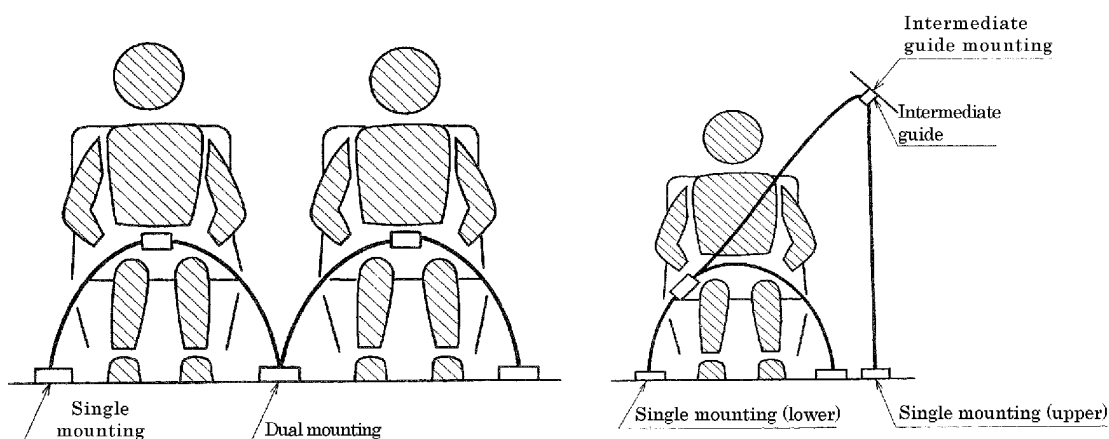


Figure 2 Dual mounting

Figure 3 Intermediate guide mounting

### 3 Types and symbols

**3.1 Seat belt types** Types and symbols of seat belts shall be in accordance with **JIS D 4604** and the three types shown in table 1 shall be used.

**Table 1 Seat belt types and symbols**

| Type               | Symbol | Remarks                                                                                   |
|--------------------|--------|-------------------------------------------------------------------------------------------|
| Two-point type     | II     | Lap belt two-point supporting type                                                        |
| Three-point type A | IIIA   | Three-point supporting type where one end of the lap belt and shoulder belt are connected |
| Three-point type B | IIIB   | Three-point supporting type where the lap belt and shoulder belt are continuous           |

Remarks : Symbol E shall be appended to the symbol for seat belts that include an energy absorption device.

Example: II-E, IIIB-E

**3.2 Types and symbols by mounting method** Types and symbols of seat belts with mountings shall be in accordance with table 2.

**Table 2 Types and symbols by mounting method**

| Type                 | Symbol |
|----------------------|--------|
| Vehicle mounted type | B      |
| Seat built-in type   | I      |

**3.3 Types and symbols by mounting position** Types and symbols by mounting position shall be in accordance with table 3.

**Table 3 Types and symbols by mounting position**

| Mounting position            | Symbol | Remarks                                                             |
|------------------------------|--------|---------------------------------------------------------------------|
| Lower mounting               | AL     | Lower mountings for two-point and three-point types (types A and B) |
| Upper mounting               | AU     | Upper mountings for three-point types (types A and B)               |
| Intermediate guide mountings | AT     |                                                                     |

**3.4 Combinations of mountings** Combinations of mountings shall be dependent on the type of mountable seat belt as shown in table 4.