



Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006

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0. LEGISLATIVE PROVISIONS**0.1. NAME OF STANDARD**

0.1.1. This Standard is the Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006.

0.1.2. This Standard may also be cited as Australian Design Rule 4/00 — Seatbelts.

0.2. COMMENCEMENT

0.2.1. This Standard commences on the day after it is registered.

0.3. REPEAL

0.3.1. This Standard repeals each vehicle standard with the name Australian Design Rule 4/00 — Seatbelts that is:

(a) made under section 7 of the Motor Vehicle Standards Act 1989; and

(b) in force at the commencement of this Standard.

0.3.2. This Standard also repeals each instrument made under section 7 of the Motor Vehicle Standards Act 1989 that creates a vehicle standard with the name Australian Design Rule 4/00 — Seatbelts, if there are no other vehicle standards created by that instrument, or amendments to vehicle standards made by that instrument, that are still in force at the commencement of this Standard.

PURPOSE AND SCOPE

This Australian Design Rule (ADR) is part of the Australian motor vehicle standards system and is a national standard for the purposes of the Motor Vehicle Standards Act 1989.

The intention of this Australian Design Rule is to specify requirements for seat belts to restrain vehicle occupants under impact conditions, to facilitate fastening and correct adjustment, to assist the driver to remain in the driver's seat and thus maintain control of the vehicle in an emergency situation, and to provide protection against ejection in an accident situation.

APPLICABILITY

This ADR applies to the design and construction of vehicles as set out in the table hereunder.

All vehicles specified below shall be equipped with seat belts complying with the relevant requirements of this Rule.

Vehicle Category	ADR Category Code *	UNECE Category Code *	Manufactured on or After	Acceptable Prior Rules
Moped 2 wheels	LA	L1	Not Applicable	
Moped 3 wheels	LB	L2	Not Applicable	
Motor cycle	LC	L3	Not Applicable	
Motor cycle and sidecar	LD	L4	Not Applicable	
Motor tricycle	LE	L5	Not Applicable	
Passenger car	MA	M1	1 July 1988	Nil
Forward-control passenger vehicle	MB	M1	1 July 1988	Nil
Off-road passenger vehicle	MC	M1	1 July 1988	Nil
Light omnibus	MD	M2		
up to 3.5 tonnes 'GVM' and up to 12 seats	MD1		1 July 1988	Nil
up to 3.5 tonnes 'GVM' and more than 12 seats	MD2		1 July 1988	Nil
over 3.5 tonnes and up to 4.5 tonnes 'GVM'	MD3		1 July 1988	Nil
over 4.5 tonnes and up to 5 tonnes 'GVM'	MD4		1 July 1988	Nil
Heavy omnibus	ME	M3	1 July 1988	Nil
Light goods vehicle	NA	N1	1 July 1988	Nil
Medium goods vehicle	NB	N2		
over 3.5 tonnes up to 4.5 tonnes 'GVM'	NB1		1 July 1988	Nil
over 4.5 tonnes up to 12 tonnes 'GVM'	NB2		1 July 1988	Nil
Heavy goods vehicle	NC	N3	1 July 1988	Nil
Very light trailer	TA	O1	Not Applicable	
Light trailer	TB	O2	Not Applicable	
Medium trailer	TC	O3	Not Applicable	
Heavy trailer	TD	O4	Not Applicable	

* The category code may also be in the format L₁, L_A etc.

4.1. DEFINITIONS

- 4.1.0. Refer to Vehicle Standard (Australian Design Rule Definitions and Vehicle Categories) 2005.
- 4.1.1. *'Accessible'* - a point on a seat belt component is considered to be *'Accessible'* if (Figure 2 refers) either:
- 4.1.1.1. it is located above Line J; or
- 4.1.1.2. it is capable of being enclosed by a straight 100 mm external diameter tube, a point of which extends to Line I and the centre line of which can intersect Line G at a point not more than 100 mm forward nor more than 300 mm rearward of Point O.
- 4.1.2. *'Automatic Length Adjusting and Locking Retractor'* - a retractor incorporating a self actuating mechanic which automatically locks the retractor at the webbing extension selected by the user.
- 4.1.3. *'Buckle Component'* - each one of the 2 parts of the buckle assembly designed to be latched to each other to complete the buckle assembly.
- 4.1.4. *'Correctly Fitted'*- the design configuration of the *'Seat Belt Assembly'* as installed in the vehicle using the *'Anchorages'* and *'Sash Guide'* devices, and adjusted around the occupant of the seating position to eliminate slack, with the occupant seated such that his centreline lies in the *'Seating Reference Plane'* of the seating position.
- 4.1.5. *'Dry Breaking Strength'* - the tensile strength of a webbing strip conditioned in an atmosphere at $20 \pm 5^\circ\text{C}$ and relative humidity not more than 67%.
- 4.1.6. *'Emergency Locking Retractor'* - a retractor incorporating a locking mechanism that is designed to lock under abnormal operating conditions.
- 4.1.7. *'Functional Component'* - a component essential to the satisfactory operation of the *'Seat Belt Assembly'* and without which the *'Seat Belt Assembly'* would no longer meet the requirements of this Rule.
- 4.1.8. *'Lap sash Point'* - the point representing the intersection of the lap and torso *'Straps'* of a *'Lap-Sash Belt'*.
- 4.1.9. *'Line X'*, *'Point Y'* - a line or point of a family, established in Clause 4.13 and represented in Figure 2, where X and Y represent a symbol listed in Clause 4.13.
- 4.1.10. *'Manual Adjusting Device'* - a device other than a retractor designed to be operated by the wearer to adjust the length of a *'Strap'* of a *'Seat Belt Assembly'*.
- 4.1.11. *'Rear Seat'* - any front facing *'Seat'* which lies immediately to the rear of the seating position of the driver or the front seat passenger(s).
- 4.1.12. *'Seating Reference Locus'* - the locus of point fixed relative to the *'Seat'*, which is coincident with the *'Seating Reference Point'* when the *'Seat'* back is at the design *'Seat Back Angle'* and when the *'Seat'* is in the rearmost driving or riding position, as the *'Seat'* traverses over the riding or driving range of *'Seat'* travel.

- 4.1.13. *'Test Seat Datum Point'* - a point in relation to the *'Seat'* described in Figure 1 of Clause 4.11.1. When viewed in side elevation it is located 120 mm above and 115 mm *'Forward'* of the intersection of the planes of the *'Seat'* base and the *'Seat'* back.
- 4.1.14. *'5th Percentile Adult Female'* - a dummy whose dimensions comply with the appropriate dimensions in Table 1, or a person with dimensions which are less than the appropriate dimensions in Table 1.
- 4.1.15. *'50th Percentile 6 Years Old Child'* - a dummy whose dimensions comply with the appropriate dimensions in Table 1, or a person with dimensions, which are less than the appropriate dimensions in Table 1.
- 4.1.16. *'95th Percentile Adult Male'* - a dummy whose dimensions comply with the appropriate dimensions in Table 1. or a person with dimensions which are greater than the appropriate dimensions in Table 1.

4.2. REQUIREMENTS

- 4.2.0. General
- 4.2.0.1. Vehicle categories MA; MB; MD1 shall comply with Clauses 4.2.1 to 4.13.
- 4.2.0.2. Vehicle categories MC, MD2 (front seats only). NA and NB1 shall comply with either
- 4.2.0.2.1. Clauses 4.2.1, 4.2.2.0, 4.2.2.1.1, 4.2.2.1.2, and 4.2.3 to 4.13 (excluding 4.7.2 and 4.7.3; for omnibuses); or
- 4.2.0.2.2. Clause 4.2.0.1.
- 4.2.0.3. Vehicles categories MD3, MD4, ME, NB2 and NC shall comply with either:
- 4.2.0.3.1. Clauses 4.2.1, 4.2.2.0, and 4.14 to 4.16; or
- 4.2.0.3.2. Clause 4.2.0.1.; or
- 4.2.0.3.3. Clause 4.2.0.2
- 4.2.1. Detailed Requirements
- 'Seat Belt Assemblies'* shall be fitted to each seating position for which seat belt *'Anchorages'* are required in accordance with ADR 5/...
“Anchorages for Seat Belts and Child Restraints”
- 4.2.1.1. Threaded steel bolts of 7/16 inch – 20 UNF - 2A are recommended for attachment to the vehicle.
- 4.2.2. Type of *'Seat Belt Assembly'*
- 4.2.2.0. The type of *'Seat Belt Assembly'* to be fitted shall be determined by the *'Anchorage'* system required for that seating position accordance with ADR 5/... “Anchorages for Seat Belts and Child Restraints”.
- 4.2.2.1. A *'Lap-Sash Belt'* or *'Harness Belt'* shall:
- 4.2.2.1.1. when fitted to the driver's seating position incorporate an *'Emergency Locking Retractor'*;

- 4.2.2.1.2. when fitted to the other front 'Outboard Seating Position', incorporate an 'Emergency Locking Retractor' or an 'Automatic Length Adjusting and Locking Retractor';
- 4.2.2.1.3. when fitted to an 'Outboard Seating Position' of a 'Rear Seat' incorporate an 'Emergency Locking Retractor' or an 'Automatic Length Adjusting and Locking Retractor'; and
- 4.2.2.1.4. when fitted to any 'Outboard Seating Position' other than the driver's seating position in a forward-control passenger vehicle (MB) or an omnibus (MD1) incorporate an 'Emergency Locking Retractor' or an 'Automatic Length Adjusting and Locking Retractor'.
- 4.2.3. Removal of the 'Seat Belt Assembly' from the vehicle or separation of any 'Functional Components' shall not be possible without the use of tools except in the case of
 - 4.2.3.1. the unlatching of the 'Buckle Components';
 - 4.2.3.2. a 'Sash Guide' device which is both:
 - 4.2.3.2.1. designed to separate from its supporting structure or fail to retain the strap upon application of the 'Anchorage' test loads ADR 5/... 'Anchorages for Seat Belts and Child Restraints';
 - and
 - 4.2.3.2.2. for which more than one point of attachment to the vehicle is available to provide the occupant with a choice of sash 'Strap' positions relative to the occupant's shoulder, or
 - 4.2.3.3. the torso 'Strap' of a 'Lap-Sash Belt' 'Seat Belt Assembly' fitted to an 'Outboard Seating Position' where the seat is designed to provide adjustment for conversion of occupant space to luggage or goods space and such seating position is not the driver's or front 'Seat' passenger's seating position or the seating position immediately to the rear thereof.
 - 4.2.3.4. The provisions of Clause 4.2.3.3 above shall apply notwithstanding the requirements of Clause 5 of Australian Standard 2596-1983 'Seat Belt Assemblies for Motor Vehicles' or Clause 3 of Australian Standard document referred to in Clause 4.2.7.2 of this Rule.
- 4.2.4. In the case where a 'Lap-Sash Belt' 'Seat Belt assembly' is provided with a torso 'strap' designed to be removed or separated from the 'Seat Belt Assembly' in accordance with the provisions of Clause 4.2.3 the requirements of this Rule shall apply to the 'Seat Belt assembly' as:
 - 4.2.4.1. a 'Lap-Sash Belt' with the torso 'Strap' operative; a
 - 4.2.4.2. a 'Lap Belt' with the sash 'Strap' so removed or separated.
- 4.2.5. Any single component of the 'Seat Belt Assembly' having a mass in excess of 75 g other than a 'Strap', 'Anchor Fixing' or 'Sash Guide' device shall be located in areas other than that area forward of the 'Torso Reference Line' and between Line A and Line B when the assembly is correctly fitted for a '95th Percentile Adult Male' and '50th Percentile 6 Years Old Child' independently.

- 4.2.6. Each *'Seat Belt Assembly'* shall be permanently and legibly marked with at least the manufacturer's name or trade mark, date of manufacture by month and year, and identification code. The identification code shall be a number and/or symbol which uniquely identifies the *'Seat Belt Assembly'* or sub-assembly design.
- 4.2.6.1. The same identification code may be used on two or more assembly or sub-assembly designs which are identical except for variations in *'Strap'* length which do not exceed
- 4.2.6.1.1. 25 mm in the case of a *'Strap'* which has a length critical to the correct location of the *'Lap-Sash Point'*; or
- 4.2.6.1.2. 100 mm in the case of other *'Straps'*.
- 4.2.6.2. Furthermore, where a manufacturer, for *'in-service'* replacement purposes, provides for replacement of parts of a *'Seat Belt Assembly'* rather than the assembly as a whole, each of the 2 sub-assemblies of the *'Seat Belt Assembly'* which can be separated from each other by the normal unlatching process shall be permanently and legibly marked in accordance with the requirements of this Clause.
- 4.2.7. *'Seat Belt Assemblies'* shall comply with either:
- 4.2.7.1. The AS 2596 referred to in Clause 4.2.3.4 but excluding Clauses 1, 2, 4, 15, 16, 17, 18 and AS 2597.13 - 1983: *'Determination of Dynamic Performance'*; or
- 4.2.7.2. AS E35 Pt. I - 1970, *'Seat Belt Assemblies for Motor Vehicles'*, up to and including amendment Nos. 3, 4, 5 and 7, but excluding:
- 4.2.7.2.1. Clause 1, 2, 7(vi), 8.1, 9.2, 9.3, Note 2 of 11.2, 12. 13, 14, 15, E3(ii)(b), E3(ii)(c), E3(iii). E3(iv), E3(v); and
- 4.2.7.2.2. any amendments to other standards subsequent to the date when referenced in AS E35 Pt. I or its amendment; or
- 4.2.7.3. any other *'Approved'* standard accepted as equivalent.
- 4.2.8. Instructions for use of *'Seat Belt Assemblies'* shall be included in the vehicle handbook or otherwise supplied with the vehicle. The instructions shall include the following text
- 4.2.8.1. **'WARNING:** Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.
- “Seat belts should be adjusted as firmly as possible. consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.
- “Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.
- “It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

"Belts should not be worn with straps twisted. Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap."

- 4.2.8.2. In the case where a *'Seat Belt Assembly'* incorporates an *'Automatic Length Adjusting and Locking Retractor'* or an *'Emergency Locking Retractor'*:
- 4.2.8.2.1. "WARNING: No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.";
- Plus
- 4.2.8.2.2. a description of the adjustments necessary to ensure that the lap and sash portions of the *'Seat Belt Assembly'* fit as firmly as possible consistent with comfort; and
- 4.2.8.2.3. instructions on the correct use of any device or devices included in the *'Seat-Belt Assembly'* which, upon manual or automatic operation, prevent the belt from being retracted.
- 4.2.9. When installed the *'Seat Belt Assembly'* webbing shall not contact any sharp edges which could abrade or cut the webbing during normal use or in an accident. If necessary, the webbing shall be protected.

4.3. ADJUSTMENT REQUIREMENTS

- 4.3.1. Each *'Seat Belt Assembly'* shall be so designed that, with the adjustment provided, it shall be capable of being *'Correctly Fitted'* for:
- 4.3.1.1. in the case of the driver's seating position, a *'5th Percentile Adult Female'* with the seat in the rearmost driving position and a *'95th Percentile Adult Male'* with the *'Seat'* in the foremost driving position; and
- 4.3.1.2. if installed at any other seating position, a *'50th Percentile 6 Years Old Child'* with the *'Seat'* in the rearmost riding position and a *'95th Percentile Adult Male'* with the *'Seat'* in the foremost riding position.
- 4.3.1.3. Furthermore, in the case of the fitting to the *'95th Percentile Adult Male'* in 4.3.1.1 and 4.3.1.2 above, the design shall provide for at least 75 mm of additional *'Strap'* in a *'Lap Belt'* and at least 75 mm of additional *'Strap'* in both the lap *'Strap'* and upper torso *'Strap'* of a *'Lap-Sash Belt'* or *'Harness Belt'*. The purpose of this Clause is to accommodate a stouter person than represented by the 95th percentile anthropometric dimensions
- 4.3.2. In the case of a *'Seat Belt Assembly'* incorporating a manual adjusting device, the following requirements shall be met when the assembly is correctly fitted for a *'95th Percentile Adult Male'* and a *'50th Percentile 6 Years Old Child'* independently, when the *'Seat'* is in the foremost riding or driving position (Figure 2 refers)
- 4.3.2.1. for tightening, the adjustment shall be by a single action at an *'Accessible'* point which lies between Line C and Line E and *'Forward'* of Line FOS; and

- 4.3.2.2. for loosening, the entire adjusting device shall lie between Line C and Line D and *'Forward'* to Line KPS and there shall be one point on the device which is *'Accessible'*.
- 4.3.2.3. For the purpose of determining whether the point is *'Accessible'*, the dummy or occupant may be removed.
- 4.3.3. Any free end of a *'Sash'* shall:
- 4.3.3.1. be designed so as to prevent it from passing through the adjuster under normal adjustment operations, and with the strap fully extended the *'Strap'* adjuster combination shall be capable of withstanding, for not less than 30 seconds a static tensile load of 9 kN applied to the load bearing end of *'Strap'* with the adjuster restrained as in the vehicle; and
- 4.3.3.2. be restrained by a positive design feature to adopt a position against another *'Strap'*. The free end of a *'Strap'* on any seat belt for a centre seating position or for an *'Outboard Seating Position'* not adjacent to a vehicle door need not meet this requirement.
- 4.3.3.3. Further, with the *'Strap'* fully extended, there shall be not less than 25 mm of material extending from the device to provide a grip for adjustment purposes. The material may either be attached to or form part of the free end of the *'Strap'*

4.4. BUCKLE REQUIREMENTS

- 4.4.1. It shall not be possible to adjust a *'Lap-Sash Belt'* so that when correctly fitted for a *'5th Percentile Adult Female'*, the *'Lap Sash Point'* is less than 125 mm in the case of *'Seats'* with *'Forward'* and *'Rearward'* adjustment, or 175 mm in the case of fixed *'Seats'*, from the *'Seating Reference Plane'* when measured along the centreline of the pelvic restraint section of the belt. This requirement shall be met with the *'Seat'* in its foremost and rearmost driving or riding position and with the *'Seat'* back at the design *'Seat Back Angle'*.
- 4.4.2. In cases where the *'Buckle Component'* of a *'Lap-Sash Belt'* *'Strap'* can be latched with part of an assembly intended for an adjacent seating position, the design shall be such that the requirements of Clause 4.4.1 are met irrespective of the combination used.
- 4.4.3. In cases where the *'Buckle Component'* of a *'Seat Belt Assembly'* can be engaged either wholly or partially with the *'Buckle Component'* of a *'Seat Belt Assembly'* intended for an adjacent seating position, the design shall be such that the *'Seat Belt Assembly'* so formed shall comply with the requirements of Clause 14 of the AS 2596 referred to in Clause 4.2.3.4 or Clause II of AS E35 Pt. 1- 1970 (excluding Note 2 of 11.2). "Seat Belt Assemblies for Motor Vehicles".
- 4.4.3.1. This requirement shall apply irrespective of whether the wholly or partially engaged components will separate without operation of the unlatching device.
- 4.4.3.2. This requirement shall not apply in cases where *'Seat Belt Assemblies'* fitted to adjacent seating positions are from the same manufacturer and have the same buckle design.

- 4.4.4. In the case of a *'Lap-Sash Belt'* incorporating a retractor, the design shall be such that in the fully retracted position, the *'Buckle Component'* associated with the retracting *'Strap'* must adopt a position that is either:
- 4.4.4.1.0. *'Accessible'*; and
- 4.4.4.1.1. within 300 mm of both foremost and rearmost points on the *'Seating Reference Locus'* when viewed in side elevation or within 300 mm of Point O and Point N when viewed in side elevation; and
- 4.4.4.1.2. within 400 mm of the *'Seating Reference Plane'* when viewed in plan; or
- 4.4.4.2. can be moved to a position which meets the requirements of clauses 4.4.4.1.0 to 4.4.4.1.2 above by a manual operation applied to the assembly at points which meet the requirements of Clauses 4.4.4.1.0 to 4.4.4.1.2.
- 4.4.4.3. This requirement shall not apply to a seating position adjacent to an access door, where the *'Seat'* must hinge or fold to permit access to another seating position.
- 4.4.5. In the case of a vehicle with one front seating position only, or with 2 front *'Seats'* each providing for one seating position only, the *'Buckle Component'* on that part of a *'Lap-Sash Belt'* which does not include the retracting *'Strap'* shall be supported by a rigid member which may pivot, or in such a manner that after being correctly fitted for a *'95th Percentile Adult Male'* with the *'Seat'* in the foremost driving or riding position, unlatching of the buckle assembly and removal of the component from the seating position does not result in any point on the component moving downwards such that the vertical component of movement is more than 50 mm.
- 4.4.5.1. When unlatched after the assembly has been correctly fitted for a *'95th Percentile Adult Male'* with the *'Seat'* in the foremost driving or riding position and a *'5th Percentile Adult Female'* with the *'Seat'* in the rearmost driving or riding position, independently, there shall be a point on the component which is:
- 4.4.5.1.1. *'Accessible'*
- 4.4.5.1.2. within 300 mm of both the foremost and rearmost points on the *'Seating Reference Locus'* when viewed in side elevation; and
- 4.4.5.1.3. within 150 mm to 400 mm of the *'Seating Reference Plane'* when viewed in plan.
- 4.4.5.2. For the purpose of determining whether the point is *'Accessible'*, the dummy or occupant may be removed.
- 4.4.6. In the case of outboard seating positions not provided for in Clause 4.4.5 the part of the assembly which does not include the *'Strap'* designed to pass over the torso of the occupant shall be so restrained by a positive design feature that one point at least cannot pass *'Rearward'* of the line of contact of the *'Seat'* cushion with the *'Seat'* back.

- 4.4.6.1. The line of contact of the '*Seat*' cushion with the '*Seat*' back is the front boundary of the area of contact across the '*Seat*' width of the '*Seat*' cushion with the '*Seat*' back when the '*Seat*' cushion is unoccupied.
- 4.4.6.2. The requirements of Clause 4.4.6 shall be met when a folding or hinged '*Seat*' is in its normal position. Re-establishment of such a '*Seat*' may include a manual operation to re-establish part of the '*Seat Belt Assembly*'.
- 4.4.7. In the case of '*Lap-Sash Belt*' assemblies not incorporating '*Emergency Locking Retractors*', or '*Automatic Length Adjusting and Locking Retractors*' fitted to outboard seating positions vehicles.
- 4.4.7.1. The design shall provide for a stowage feature for the part of the assembly which includes the '*Strap*' designed to pass over the pelvis or torso of the occupant, to facilitate that part of the assembly, when unlatched, being kept clear of the vehicle floor and the lower edge of the door opening
- 4.4.8. The area of vehicle floor does not include areas which are inaccessible to the occupant's feet during travel or during entry and exit

4.5. GENERAL REQUIREMENTS FOR SEAT BELT COMPONENTS

- 4.5.1. In all cases where the '*Strap*' passes through another component, other than a '*Sash Guide*' used in conjunction with an '*Emergency Locking Retractor*', and there is relative movement between the '*Strap*' and the component as a result of adjusting operations. the tensile strength of the webbing shall not be reduced to less a than 14.7 kN or 75% of the '*Dry Breaking Strength*', whichever is the greater, after 2500 cycles of relative movement under the following test conditions:
- 4.5.1.1. the tensile load in all parts of the test '*Strap*' during the working stroke of the 2 strokes of each cycle shall be not less than 13 N;
- 4.5.1.2. the working stroke shall be not less than 150 mm nor more than 200 mm; and
- 4.5.1.3. the angle which the centreline of each end of the test '*Strap*' makes with the component shall be not less critical to '*Strap*' abrasion than that nominated by the vehicle '*Manufacturer*' as representative of such angle of the '*Strap*' in use, when the assembly is correctly fitted for a '*5th Percentile Adult Female*' with the '*Seat*' in the rearmost driving or riding position, except that in the case where the design provides for the centrelines of the straps to be separated when viewed normal to the plane of one '*Strap*', then such angle of separation in the test may be any angle greater than 25°, and the angle of separation of the centrelines of the '*Straps*' when viewed in the plane of one '*Strap*' may be any angle less than 10°.
- 4.5.2. In the case of a '*Lap-Sash Belt*' incorporating an '*Emergency Locking Retractor*' where, during the wearing and retracting operations, there is relative movement between the retracting '*Strap*' and the '*Sash Guide*' system other than the retractor itself the tensile strength of the webbing shall not be reduced to less than 14.7 kN or 75% of the '*Dry Breaking*

Strength, whichever is the greater, after the retracting *'Strap'* has been drawn through the *'Sash Guide'* system for 50,000 cycles under the following an conditions:

- 4.5.2.1. the tensile load in all parts of the test *'Strap'* during the working stroke of the 2 strokes of each cycle shall not be less than 18 N;
- 4.5.2.2. the tensile load in the test *'Strap'* at one point in the cycle shall be reduced to zero;
- 4.5.2.3. the working stoke shall be not less than 200 mm;
- 4.5.2.4. the orientation of the test *'Strap'* relative to the *'Sash Guide'* shall be such that:
 - 4.5.2.4.1. the *'Sash Guide'* shall be in its design configuration except that, for *'Sash Guides'* designed to pivot, the angle of the axis of rotation may vary from its design configuration provided that such variation is not greater than 5°
 - 4.5.2.4.2. the part of the test *'Strap'* which simulates the *'Strap'* passing from the *'Sash Guide'* to the next *'Sash Guide'* or to the retractor, shall be in the design configuration; and
 - 4.5.2.4.3. the part of the test *'Strap'* which simulates the torso *'Strap'* shall be pulled in a vertical plane not more than 45° or a longitudinal plane when viewed in plan, and the direction of pull in that plane shall vary over a range of not les than 65° during the working stroke of each cycle;
and
- 4.5.2.5. all *'Sash Guides'* for the one assembly shall be tested simultaneously.
- 4.5.2.6. The requirements of this Clause shall not apply to relative movement between the *'Strap'* and the retractor, at the retractor.

4.5.3. Buckle-Spring Fatigue Resistance

In the case where a spring is incorporated in the unlatching mechanism of a buckle, the load required to operate the spring shall not be reduced by more than 20% after the spring has been subjected to 50,000 operations each involving a movement not less than 95% of the design movement for buckle unlatching.

4.6. RETRACTORS

- 4.6.1. All retractors incorporated in *'Seat Belt Assemblies'* shall comply with the requirements of Clause 4.6.2 and either Clause 4.6.3 or 4.6.4.
- 4.6.2. General Requirements for Retractors
 - 4.6.2.1. After being subjected to the retractor durability test of Section 4.8, the retractor shall:
 - 4.6.2.1.1. when locked, either.
 - 4.6.2.1.1.1. withstand a tensile load of not less than 9 kN applied to the *'Strap'*; or
 - 4.6.2.1.1.2. be subjected to the strength of assembly test of Clause 11.1 of the Australian Standard referred to in Clause 4.2.7.2 or Clause 14.1 of the AS document 2596 as referred to in Clause 4.2.3.4 ; and

- 4.6.2.1.2. withstand a tensile load of not less than 9 kN applied to the '*Strap*'. For the purpose of this test *the 'Strap'* shall be fully withdrawn and the locking mechanism shall be rendered inoperative.
- 4.6.2.2. In cases where the retracting '*Strap*' of a '*Lap-Sash Belt*' is the torso '*Strap*', the reaction force in the '*Strap*' before and after the retractor has been subjected to the retractor durability test of Section 4.8, shall be not less than 2 N nor more than 10 N, under the following test conditions:
- 4.6.2.2.1. the '*Sash Guide*' system and the retractor shall be in the design configuration. In the case of a '*Sash Guide*' system with an adjustable '*Sash Guide*' the retractor shall be capable of meeting the requirements of this Clause with the '*Sash Location Point*' set in any position of adjustment.
- 4.6.2.2.2. the part of the test '*Strap*' which simulates the torso '*Strap*' shall be withdrawn through the '*Sash Guide*' system until it is within 430 mm of its fully extended condition
- 4.6.2.2.3. the '*Strap*' shall be allowed to retract until a point on the '*Strap*' is 450 ± 20 mm, measured along the '*Strap*' from its position when the '*Strap*' is fully extended. It shall then be held stationary at this extension by a force applied in a downward direction at $20 \pm 10^\circ$ to the vertical in a vertical plane which is at $35 \pm 10^\circ$ to a longitudinal plane when viewed in plan. and shall not be withdrawn again until the retracting force has been determined;
- 4.6.2.2.4. the retraction force shall be measured in the test '*Strap*' '*Forward*' of the point where it would contact the first '*Sash Guide*' device after passing over the shoulder of the weaver; and
- 4.6.2.2.5. where the assembly incorporates a device that upon manual or automatic operation, prevents the belt from being completely retracted, such a device shall not be operating when this requirement is assessed
- 4.6.3. '*Automatic Length Adjusting and Locking Retractors*'
- 4.6.3.1. The locking mechanism of an '*Automatic Length Adjusting and Locking Retractor*' shall be designed to provide a locked position for at least every 30 mm of '*Strap*' extension from the position when the '*Seat Belt Assembly*' is correctly fitted for a '*50th Percentile 6 Years Old Child*', with the '*Seat*' in the rearmost riding position.
- 4.6.4. '*Emergency Locking Retractors*'
- 4.6.4.1. '*Emergency Locking Retractors*' shall lock when the retractor and any associated devices to sense acceleration are accelerated at not more than 5m/s^2 . the peak acceleration being attained in not less than 40 milliseconds.
- 4.6.4.1.0. Furthermore with a point on the external '*Strap*' fixed the locking device shall limit '*Strap*' movement, measured from the time of application of the acceleration, to not more than:
- 4.6.4.1.0.1. 30 mm, when the '*Strap*' is withdrawn to a point which is 150 ± 5 mm from the fully extended position; and

- 4.6.4.1.0.2. 80 mm, when the 'Strap' is withdrawn to points 450 ± 5 mm and 760 ± 5 mm from the fully extended position, if the 'Seat Belt Assembly' includes sufficient 'Strap' to attain these extensions.
- 4.6.4.1.1. This requirement shall be met under positive and negative acceleration in longitudinal, transverse and vertical directions, except that in cases where the device is designed to lock when tilted to any angle in excess of 45° then the locking requirement need be met for longitudinal and transverse directions only.
- 4.6.4.1.2. Sensing of acceleration to meet the requirements of this Clause shall not be dependent upon rate of withdrawal of 'Strap' from the retractor. In demonstrating this requirement, any device dependent for sensing of acceleration on withdrawal of 'Strap' from the retractor may be rendered inoperative.
- 4.6.4.2. 'Emergency Locking Retractors' shall be designed in such a way that when the 'Strap' is extended at an acceleration of not more than 20 m/s^2 locking occurs within 25 mm of 'Strap' extension. This requirement shall be met at an extrapolated point representing full extension based on test results achieved at points of extension which are less than the full extensions by 150 ± 5 mm, 450 ± 5 mm, and 750 ± 5 mm (if available), respectively.
- 4.6.4.3. An 'Emergency Locking Retractor' shall be designed to lock automatically. or meet the requirements of Clauses 4.6.4.1 and 4.6.4.2 upon any single mechanical failure of a spring which is part of the locking mechanism
- 4.6.4.4. In cases when the operation of a retractor depends on an external signal or power source, the design shall ensure that the retractor locks automatically upon failure or interruption of that signal or power source.
- 4.6.4.5. The design of an 'Emergency Locking Retractor' shall ensure that it remains unlocked when the vehicle is tilted up to 12° , longitudinally or transversely, from the horizontal

4.7. DYNAMIC TEST REQUIREMENTS

- 4.7.1. 'Seat Belt Assemblies' for front facing 'Seats' shall not separate within themselves or from any 'Anchorage', when tested in accordance with the dynamic test procedure of Section 4.9.
- 4.7.2. Prior to the dynamic test, each 'Seat Belt Assembly' shall be subjected to the preconditioning requirements of Clause 4.7.3.
- 4.7.3. Dynamic Test Preconditioning
- 4.7.3.1. Any 'Buckle Component' or manual adjusting device which can take up a position in a door opening, or under a pivoting 'Seat', shall be placed on a flat surface in its most stable position and subjected to a force of not less than 1.8 kN for a period of not less than 10 seconds. The force shall be applied through a rigid bar of diameter not more than 20 mm formed to an arc of radius not more than 150 mm, with the bar in line with the 'Strap' when viewed in plan, and the test shall be repeated with the bar normal to the direction of the 'Strap' when viewed in plan.

- 4.7.3.2. The buckle assembly shall be subjected to not less than 20,000 unlatching operations. During each unlatching operation a tensile load of not less than 20 N shall be applied to the assembly.
- 4.7.3.3. Each '*Seat Belt Assembly*' which contains non-metallic material (other than a webbing '*Strap*') shall be exposed to environment over a water surface within a closed space, the environment having a temperature of not less than 80°C, for a continuous period of not less than 24 hours and then cooled in an environment having a temperature not exceeding 23°C. The cooling period shall immediately be followed by three consecutive 24 hour cycles with each cycle comprising the following consecutive sequencer
- 4.7.3.3.1. an environment having a temperature of not less than 100°C shall be maintained for a continuous period of 6 hours and this environment shall be attained within 80 minutes of the cycle; then
- 4.7.3.3.2. an environment having a temperature of not more than 0°C shall be maintained for a continuous period of 6 hours and this environment shall be attained within 20 minutes; then
- 4.7.3.3.3. an environment having a temperature of not more than 23°C shall be maintained during the remainder of the 24 hour cycle.

4.8. RETRACTOR DURABILITY TEST

- 4.8.0. The '*Seat Belt Assembly*' shall be prepared, conditioned and tested to AS 2597.9-1983 'Preparation and Conditioning of Test Specimens for Retractor Function' or to Clause 4.8.1 to 4.8.3. below.
- 4.8.1. The '*Seat Belt Assembly*' shall be conditioned by the procedure specified in ASTM B 117-64 'Standard Method of Salt Spray (Fog) Testing'. The period of conditioning shall be not less than 50 hours.
- 4.8.2. At the end of the conditioning procedure specified in Clause 4.8.1 the '*Seat Belt Assembly*' may be washed thoroughly with water to remove the salt. If washed, the webbing shall be fully extended and allowed to dry for a least 24 hours in an atmosphere having a relative humidity of not less than 48% nor more than 67% and a temperature of not less than 21°C or more than 25°C. The webbing shall then be withdrawn manually and allowed to retract for 25 cycles.
- 4.8.3. Following the procedure specified in Clause 4.8.2, the retractor shall be subjected to the following:
- 4.8.3.1. in the case of '*Automatic Length Adjusting and Locking Retractors*'. the '*Strap*' shall be withdrawn from the retractor and allowed to retract repeatedly by the method described in Appendix A of AS E35. Pt.II - 1970 'Seat Belt Assemblies (including retractors) for motor vehicles' including amendment No. 1 for not less than 5,000 cycles after which the retractor, including the '*strap*' wound upon the reel, shall be subjected to application of dust as described in Appendix C of that Australian Standard. The '*Strap*' shall then be subjected to at least 5,000 cycles of withdrawal and reaction. The locking mechanism shall be functional at the completion of the test: and

- 4.8.3.2. in the case of '*Emergency Locking Retractor*', the '*Strap*' shall be withdrawn from the retractor and allowed to retract repeatedly by the method described in Appendix A of Australian Standard referred to in clause 4.3.3.1 for not less than 45,000 cycles after which the retractor, including the '*Soap*' wound upon the reel shall be subjected to the application of dust as described in Appendix C of that Australian Standard or the Australian Standard referred to in Clause 4.8.0. The '*Strap*' shall then be subjected to at least 5,000 cycles of withdrawal and retraction.

4.9. DYNAMIC TESTING PROCEDURE

- 4.9.1. The test rig shall have a mass of not less than 380 kg and shall meet the requirements of Section 4.12 for test rig calibration. It shall comprise either:
- 4.9.1.1. a trolley and '*Seat*' as specified in Clauses 4.11.1 and 4.11.2 for dummy calibration. and with '*Anchorage*' and '*Sash Guides*' device within 100 mm of their design positions with the test seat datum point assumed to coincide with the test '*Seating Reference Point*'; or
- 4.9.1.2. a trolley and a vehicle body shell complete with a driver's '*Seat*' adjusted to the rearmost driving or riding position.
- 4.9.2. A dummy meeting the requirements of Section 4.10 shall be placed in the appropriate seating position so that its centre-line lies in the '*Seating Reference Plane*' and such that it is restrained by the '*Seat Belt Assembly*' as follows:
- 4.9.2.1. in the case of '*Seat Belt Assemblies*' incorporating retractors, the belt shall be manually adjusted around the dummy to eliminate slack; and
- 4.9.2.2. in the case of other '*Seat Belt Assemblies*', a spacer of flexible but substantially incompressible material not less than 25 mm thick and at least as wide and as long as the dummy's back shall be placed behind the back of the dummy. The assembly shall be adjusted to eliminate slack and the spacer then removed. The dummy shall be re-positioned so that its back is in contact with the '*Seat*' back.
- 4.9.3. The rig shall be operated in a manner identical in all operational respects to that specified in Clause 4.12.1 for rig calibration except that in this case the dummy replaces the inert mass.

4.10. TEST DUMMY REQUIREMENTS

- 4.10.1. The dummy shall have a mass of 74 ± 2 kg.
- 4.10.2. When tested in accordance with the requirements of Section 4.11 for dummy calibration, the test dummy shall give rise to '*Seat Belt Assembly*' loads such that the sum of the peak restraining forces in each length of the sash '*Strap*' which is not in contact with the dummy is not less than 10 kN, and also that the sum of the peak restraining forces in each length of the lap '*Strap*' which is not in contact with the dummy is not less than 10 kN.

4.11. DUMMY CALIBRATION

- 4.11.1. The test rig shall have a mass of not less than 380 kg and, shall meet the requirements of Section 4.12 for test rig calibration. It shall comprise a trolley, test 'Seat', foot rest, and structure for providing seat belt 'Anchorages', meeting the dimensional requirements indicated in Figure 1.
- 4.11.2. The 'Seat' base surface shall not be designed with energy absorbing characteristics and shall present a smooth surface for the dummy.
- 4.11.3. The dummy shall be restrained by separate 'Lap Belts' and sash belts, each of which comprises load bearing material having an elongation of not less than 12% when subjected to a load of 11 kN. The method of test of elongation shall be determined by the method described in Appendix B of AS E47-1971 or AS 1753-1975: 'Webbing for Restraining Devices for Occupants of Motor Vehicles", except that the specimen shall be loaded to 11 kN in lieu of the load specified in the Australian Standards.
- 4.11.4. The 'Lap Belts' and sash belts shall be adjusted to eliminate slack.
- 4.11.5. The rig shall be operated in a manner identical in all operational respect to that specified in Clause 4.12.2 for rig calibration except that in this case the dummy replaces the inert mass.

4.12. TEST RIG CALIBRATION

- 4.12.1. In the case of calibration prior to seat belt testing, the test rig, to which a mass of 74 ± 2 kg is rigidly attached, when subjected to a velocity change of not less than 49 km/h, shall achieve within 30 milliseconds a 'Forward' deceleration measured in the vicinity of a lap 'Anchorage' of at least 235 m/s^2 and shall maintain this deceleration, except for periods of less than one millisecond, for not less than 20 milliseconds.
- 4.12.2. In the case of calibration prior to proving the dummy, the test rig, to which a mass of 74 ± 2 kg is rigidly attached, when subjected to a velocity change of not less than 49 km/h, shall achieve with 30 milliseconds, a 'Forward' deceleration measured in the vicinity of a lap 'Anchorage', within the range 235 to 335 m/s^2 and shall maintain this deceleration, except for periods of less than one millisecond, for not less than 20 millisecond.

4.13. COMPONENT BOUNDARY LOCATION

- 4.13.0 The lines shown in Figure 2 in side elevation are established as follows:
- 4.13.1. Line A is a horizontal line 850 mm above the 'Seating Reference Point';
- 4.13.2. Line B is a horizontal line 330 mm above the 'Seating Reference Point';
- 4.13.3. Line C is a horizontal line 680 mm above the 'Seating Reference Point';
- 4.13.4. Line D is a horizontal line 150 mm below the 'Seating Reference Point';
- 4.13.5. Line E is a horizontal line 75 mm below the 'Seating Reference Point';
- 4.13.6. Line POS consists of 2 lines PO and OS and is constructed as follows:

- 4.13.6.1. draw line PO parallel to the '*Torso Reference Line*' and intersecting Line G at Point O, such that the extension of Line PO passes through the most '*Forward*' point on the '*Seating Reference Locus*'; and
- 4.13.6.2. draw a vertical Line OS intersecting Line G at Point O;
- 4.13.7. Line KPS consists of 2 Lines KP and PS and is constructed as follows:
- 4.13.7.1. draw Line KP parallel to and 100 mm '*Rearward*' of Line PO (established above) intersecting Line OS at P; and
- 4.13.7.2. Line PS is coincident with Line OS,
- 4.13.8. Line O is a horizontal Line 380 mm above the '*Seating Reference Point*', intersecting the '*Torso Reference Line*' at Point N; and
- 4.13.9. Line J is a horizontal Line 230 mm above the '*Seating Reference Point*'.

	<i>'95th Percentile Adult Male'</i>	<i>'5th Percentile Adult Female'</i>	<i>'50th Percentile 6 Years Old Child'</i>
Mass	97.5 ± 5 kg	46 ± 5 kg	21.4 ± 3 kg
Erect sitting height	965 mm	785 mm	645 mm
Hip breadth (sitting)	415 mm	325 mm	215 mm
Hip circumference (sitting)	1200 mm	925 mm	605 mm
Waist circumference (sitting)	1080 mm	600 mm	530 mm
Chest depth	265 mm	190 mm	160 mm
Chest circumference	1130 mm	775 mm (nipple) 755 mm (upper) 675 mm (lower)	595 mm
Shoulder height	680 mm	520 mm	415 mm

Tolerance on all length dimensions ± 5%.

Figure 1
Test Seat & Anchorages

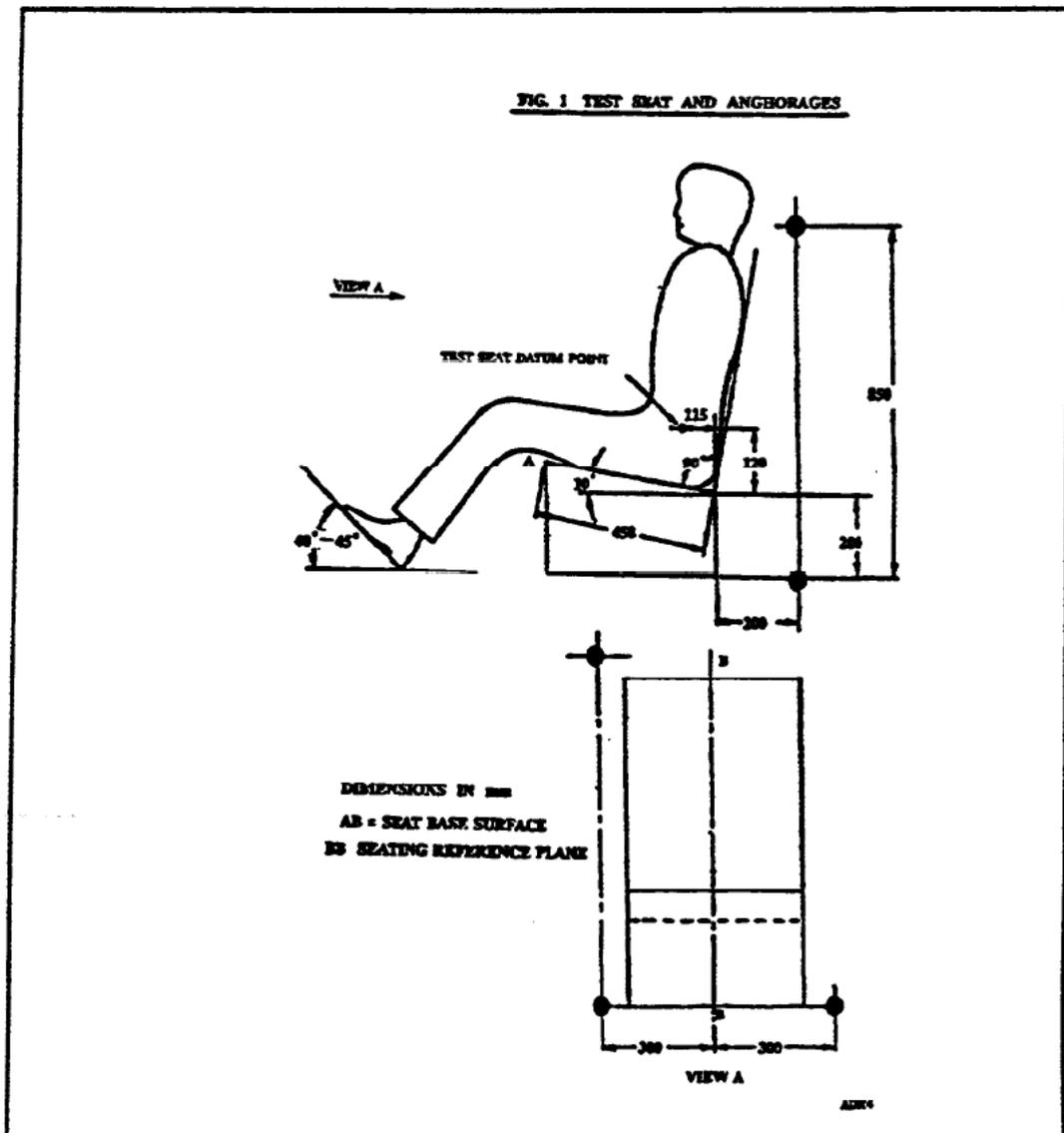
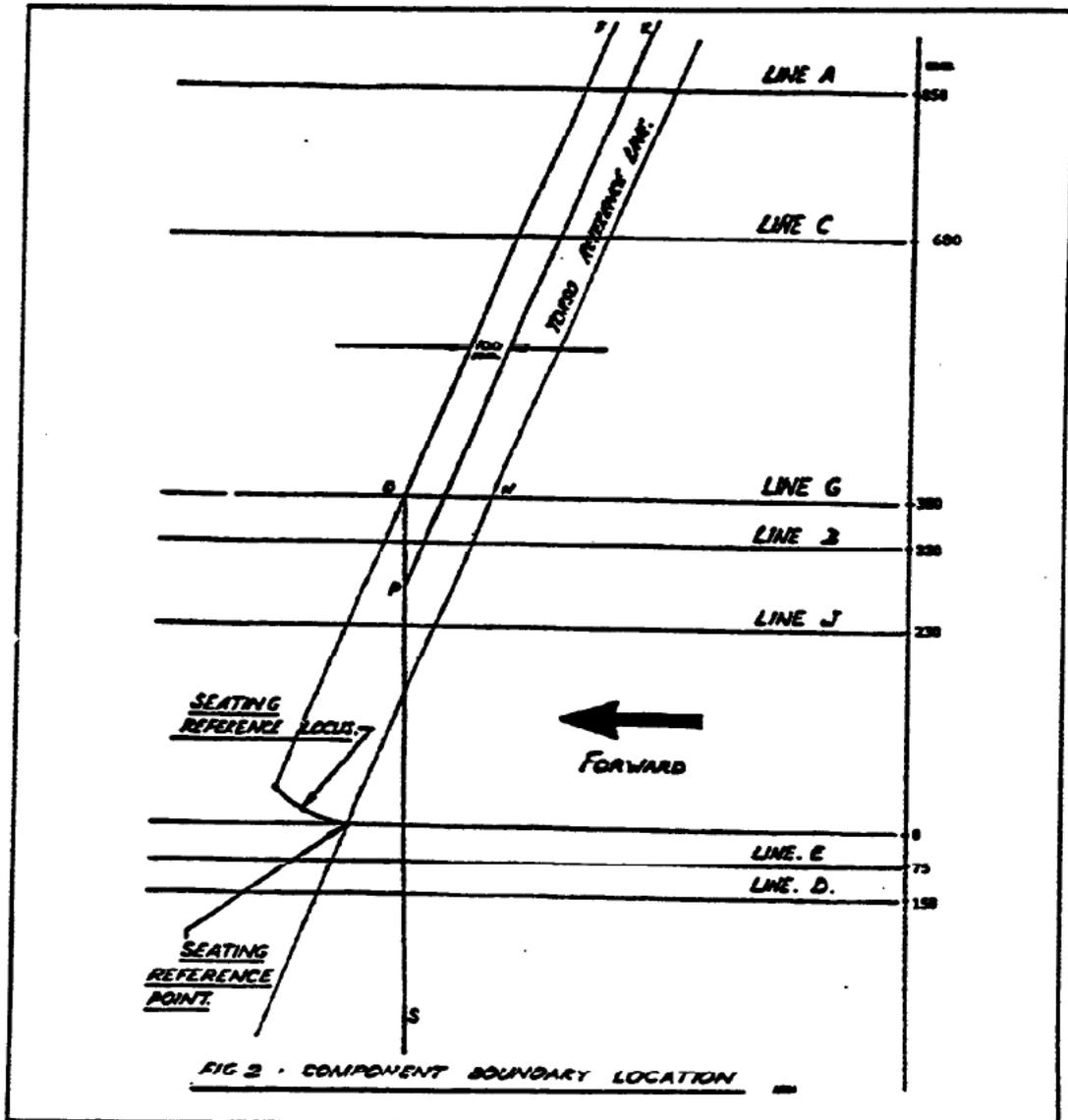


Figure 2
Component Boundary Locations



4.14. DETAILED REQUIREMENTS FOR VEHICLE CATEGORIES MD3, MD4, ME, NB2 AND NC ONLY

- 4.14.1. Separation of any '*Functional Components*' of the '*Seat Belt Assembly*', other than unlatching of the '*Buckle Components*', shall not be possible without the use of tools.
- 4.14.2. '*Seat Belt Assemblies*' shall comply with either.
- 4.14.2.1. AS 2596-1983. as referenced in Clause 4.2.7.1 but excluding Clauses 1, 2, 4, 15, 16, 17, 18 and excluding dynamic testing to the AS 2597 referred to in Clause 4.2.7.1 provided that the maximum test loads shall not be less than 9 kN, and the corrosion conditioning procedure shall be that specified in Section 4.15;
- 4.14.2.2. AS E35, Part I - 1970, '*Seat Belt Assemblies for Motor Vehicles*' up to and including amendments No. 3, 4, 5 and 7, but excluding Clauses 9.2 and 9.3 as well as any other standards subsequent to the date when referenced in this Australian Standard or its amendments and except that the maximum test loads specified in Clause 11 and Appendix E of this Australian Standard shall not be less than 9 kN;
- 4.14.2.3. AS E35, Part II - 1970, '*Seat Belt Assemblies (Including Retractors) for Motor Vehicles*' up to and including amendment No.1 in the case where the assembly is fitted with a retractor except that
- 4.14.2.3.1. the corrosion conditioning procedure specified in Appendix B and referenced in Clauses 5.1.3, 5.2.3, 5.3.3 of that AS shall be as specified in Section 4.15; and
- 4.14.2.3.2. all reference to Part I of the Australian Standard shall be in accordance with Clause 4.14.2.2 of this Rule.
- 4.14.2.4. Federal Motor Vehicle Safety Standard No. 209, '*Seat Belt Assemblies*' current as at 13 December 1979 except that the use of non-locking retractors as defined in that Standard shall not be allowed;
- 4.14.2.5. ECE Regulation 16/00 to 16/04, '*Safety Belts*' (except that the use of a non-locking retractor as defined in that Regulation shall not be allowed, or
- 4.14.2.6. Any other '*Approved*' standard accepted as equivalent.
- 4.14.3. The operation of any '*Emergency Locking Retractor*' incorporated in a '*Seat Belt Assembly*' shall not be dependent solely upon rate of withdrawal of '*Strap*' from the retractor.
- 4.14.4. In the case where a '*Seat*' is so designed as to provide automatic vertical movement of the '*Seat Frame*' relative to the vehicle structure as a result of particular vehicle movements, then either:
- 4.14.4.1. with the '*Seat Belt Assembly*' fitted to an occupant, the dimension measured along the centreline of the lap '*Strap*' from the first point of contact of the lap '*Strap*' with the '*Seat*' to a corresponding point of contact on the other side of the '*Seat*', shall not vary by more than 25 mm over the total range of '*Seat*' vertical movement described above; or

- 4.14.4.2. the *'Seat Belt Assembly'* shall incorporate an *'Emergency Locking Retractor'*.
- 4.15. CORROSION CONDITIONING PROCEDURE FOR 'SEAT BELT ASSEMBLIES' FITTED IN ACCORDANCE WITH SECTION 4.14**
- 4.15.1. The *'Seat Belt Assembly'* shall be conditioned by the procedure specified in the ASTM document referred to in Clause 4.8.1.
- 4.15.2. The period of conditioning shall be not less than 50 hours, and at the end of the conditioning procedure specified in Clause 4.15.1 the *'Seat Belt Assembly'* may be washed thoroughly with water to remove the salt. If washed, the webbing shall be fully extended and allowed to dry for at least 24 hours in an atmosphere having a relative humidity of not less than 48% nor more than 67% and a temperature of not less than 21°C nor more than 25°C. The webbing shall then be withdrawn manually and allowed to retract for 25 cycles.
- 4.16. ADJUSTMENT REQUIREMENTS FOR VEHICLE CATEGORIES MD3, MD4, ME, NB2 AND NC ONLY**
- 4.16.1. With the *'Seat Belt Assembly'* in the unlatched condition, a point on each separate portion of the seat belt shall be located by a design feature to adopt a position not more than 100 mm below the top edge of the seat cushion measured in the immediate vicinity of such a design feature.
- 4.16.2. Any free end of a *'Strap'* shall be restrained by a design feature to adopt a position against another *'Strap'*. The free end of a *'Strap'* on any seat belt for a centre seating position or for an *'Outboard Seating Position'* not adjacent to a vehicle door need not meet this requirement.
- 4.16.3. With the *'Strap'* fully extended, there shall be not less than 25 mm of material extending from the adjusting device to provide a grip for adjustment purposes. The material may either be attached to or form part of the free end of the *'Strap'*.
- 4.17. ALTERNATIVE STANDARDS.**
- 4.17.1. The technical requirements; of ECE R 16/00 to R 16/04 "Safety Belts" shall be deemed to be equivalent to the technical requirements of this Rule, provided that
- 4.17.1.1. for Sections 4.14 to 4.16 non-locking retractors shall not be employed; and
- 4.17.1.2. the sunlight exposure requirement of the Australian Standards referred to in Clause 4.2, and the dust and preconditioning (before any dynamic testing) requirements of this Rule are met.
- 4.17.1.3. the free end requirements of Clauses 4.3.3.2 or 4.16.2 of this Rule are met.

NOTES

This compilation of Vehicle Standard (Australian Design Rule 4/00 - Seatbelts) 2006 includes all the instruments set out in the Table of Instruments. The Table of Amendments provides a history of clauses that have been amended, inserted or deleted.

Table of Instruments

Name of Instrument	Registration Date	Commencement Date
Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006	16/08/2006	17/08/2006
Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1	13/12/2006	14/12/2006

Table of Amendments

Clause affected	How affected	Amending instrument
4.1.3.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.1.11.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.2.1.1.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.2.3.3.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.2.4.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.2.6.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.2.7.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.3.1.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.3.3.3.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.4.1.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.4.2.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.4.3.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.4.4.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.4.4.2.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.4.5.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.4.6.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.4.6.2.	am	Vehicle Standard (Australian Design Rule 4/00 –

		Seatbelts) 2006 Amendment 1
4.5.1.1.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.5.1.3.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.5.2.1.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.5.2.2.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.6.2.2.3.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.9.2.1.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.9.3.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.12.2.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.13.5.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1
4.14.2.3.2.	am	Vehicle Standard (Australian Design Rule 4/00 – Seatbelts) 2006 Amendment 1

ad = added or inserted

am = amended

del = deleted or removed

rr = removed and replaced

→ = clause renumbered. This takes the format of old no. → new no.