

AUSTRALIAN DESIGN RULE NO. 34 - CHILD RESTRAINT ANCHORAGES

34.1 Definitions

34.1.1 Upper Anchorage - that part of the vehicle designed to transfer loads from the upper part of the child restraint to the vehicle structure.

34.1.2 Rear Seat - for the purpose of this Design Rule, a rear seat is any forward facing seat which lies immediately to the rear of the driver's or the front passenger(s) seating positions.

34.1.3 Seating Reference Plane - the plane as established by the conditions set out below;

- (a) Seats designed for one seating position only - the vertical plane through the geometric centre of the seat,
- (b) Seats designed for two or more seating positions - the plane nominated by the manufacturer provided that in the case of an outboard position on a seat which is designed for two occupants only, the seating reference plane shall be at least 200 mm from the vertical longitudinal plane through the centre of the vehicle and at least 200 mm from the inner panel (or the line of the inner panel) when measured horizontally on a transverse line through the seating reference point.

34.2 General

34.2.1 For each rear seating position equipped with an adult seat belt assembly, one upper anchorage shall be provided, except that in the case where the seat back is divided into two or more sections which may be folded independently of each other, and the division between two sections lies substantially along the Seating Reference Plane of the centre seating position, an upper anchorage need not be provided for that seating position. *

34.2.2 Each upper anchorage shall incorporate an internal thread of 5/16" - 18 UNC - 2B.

34.2.3 Each upper anchorage shall be so designed and located that: *

- (a) it meets the requirements of Clause 34.2.3(c) from within the passenger compartment,
- (b) no items other than closure plugs and items movable without the use of tools require removal for access to the anchorage, and
- (c) access to a 5/16" UNC hexagon head bolt with an overall length of not less than 30 mm be provided such that it can be engaged for a depth of 5 full threads into the anchorage using hand tools.

* Amended March 1976

34.2.4 Information regarding the location of each upper anchorage shall be specified in the vehicle hand book, or otherwise supplied with the vehicle. The information shall include:

' **WARNING:** Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses. '

34.3 Location Requirements

34.3.1 The upper anchorage associated with a particular seat belt assembly shall lie within 40 mm of the Seating Reference Plane of the seating position for which the seat belt assembly is provided.

34.4 Strength of Upper Anchorages

34.4.1 All anchorages shall be tested simultaneously when installed in the vehicle by application of a test load of 3.4 kN to each anchorage. The direction of the test load shall be within 20° of the design line of action of the child restraint attachment. The appropriate complete seat or seat back may be installed in which case the load shall be applied forward of the seat back in a horizontal plane through the connection passing over the seat back to the anchor. Each anchorage shall be capable of supporting the test load for a period of not less than one second.

*Amended March 1976