

# COMMONWEALTH OF AUSTRALIA

# AUSTRALIAN DESIGN RULE 34 FOR CHILD RESTRAINT ANCHORAGES

As Endorsed by the Australian Transport Advisory Council

The intention of this Australian Design Rule is to specify requirements for child restraint upper anchorages in rear seats of passenger cars. This will facilitate satisfactory installation of child restraints and transfer of restraints between vehicles. It is intended that, except for bassinets, the lower part of the child restraint shall be secured by the adult seat belt.

The Australian Transport Advisory Council has recommended to Commonwealth, State and Territory Governments that all motor vehicles specified below shall comply with Australian Design Rule 34 - Child Restraint Anchorages.

VEHICLE CATEGORY	RULE MANUFACTURED ON OR		AMENDMENT AFTER
		34	
Passenger Cars Forward Control Passenger Vehicles up to 8 seats 9 seats Other Passenger Cars Passenger Car Derivatives Multi-Purpose Passenger Cars Omnibuses up to 3.5 tonnes GVM up to 12 seats over 12 seats up to 4.5 tonnes GVM over 4.5 tonnes GVM Motorcycles Mopeds Specially Constructed Vehicles Other Vehicles not listed above up to 4.5 tonnes GVM over 4.5 tonnes GVM	N/A N/A 1 July 1976# N/A N/A N/A N/A N/A N/A N/A N/A	1 Jan 1977	

# Except those equipped with hinged or folding rear seats N/A - Not Applicable GROSS VEHICLE MASS - Abbreviated to 'GVM'

The Australian Transport Advisory Council has also recommended to Commonwealth, State and Territory Governments that motor vehicles which comply with the requirements of ADR 34A - Child Restraint Anchorages need not comply with the requirements of ADR 34.

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### 34.1 <u>Definitions</u>

- 34.1.1 <u>Upper Anchorage</u> 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 <u>Seating Reference Plane</u> 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  $5/16^{\rm H}$  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 novable without the use of tools require removal for access to the anchorage, and
  - (c) access to a 5/16" WHC 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 cools.

\* 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 ch. d 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