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**Child Restraint
Anchorages and
Attachment Hardware**

SAE Recommended Practice
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CHILD RESTRAINT ANCHORAGES AND ATTACHMENT HARDWARE

1. INTRODUCTION:

It is generally recognized that parents often place their children (particularly infants) in the front seats of their vehicles. Also, child restraint systems when properly installed and used, have been long recognized in mitigating child injuries in vehicle accidents. Child restraint systems have evolved with a dependency on the lap belt portion of the adult restraint in vehicles for attachment to the vehicle. Consequently, it is desirable that manufacturers of vehicles with automatic restraint systems that require a supplementary restraint for use with a child seating system, make provision for front seat anchorages and attachment hardware which are compatible for use with child restraint systems and conform to this recommended practice. These provisions will assure child restraint manufacturers that their product can be secured to the vehicle with an auxiliary attachment (e.g., belt) of their design that also meets some minimum requirements.

2. PURPOSE AND SCOPE:

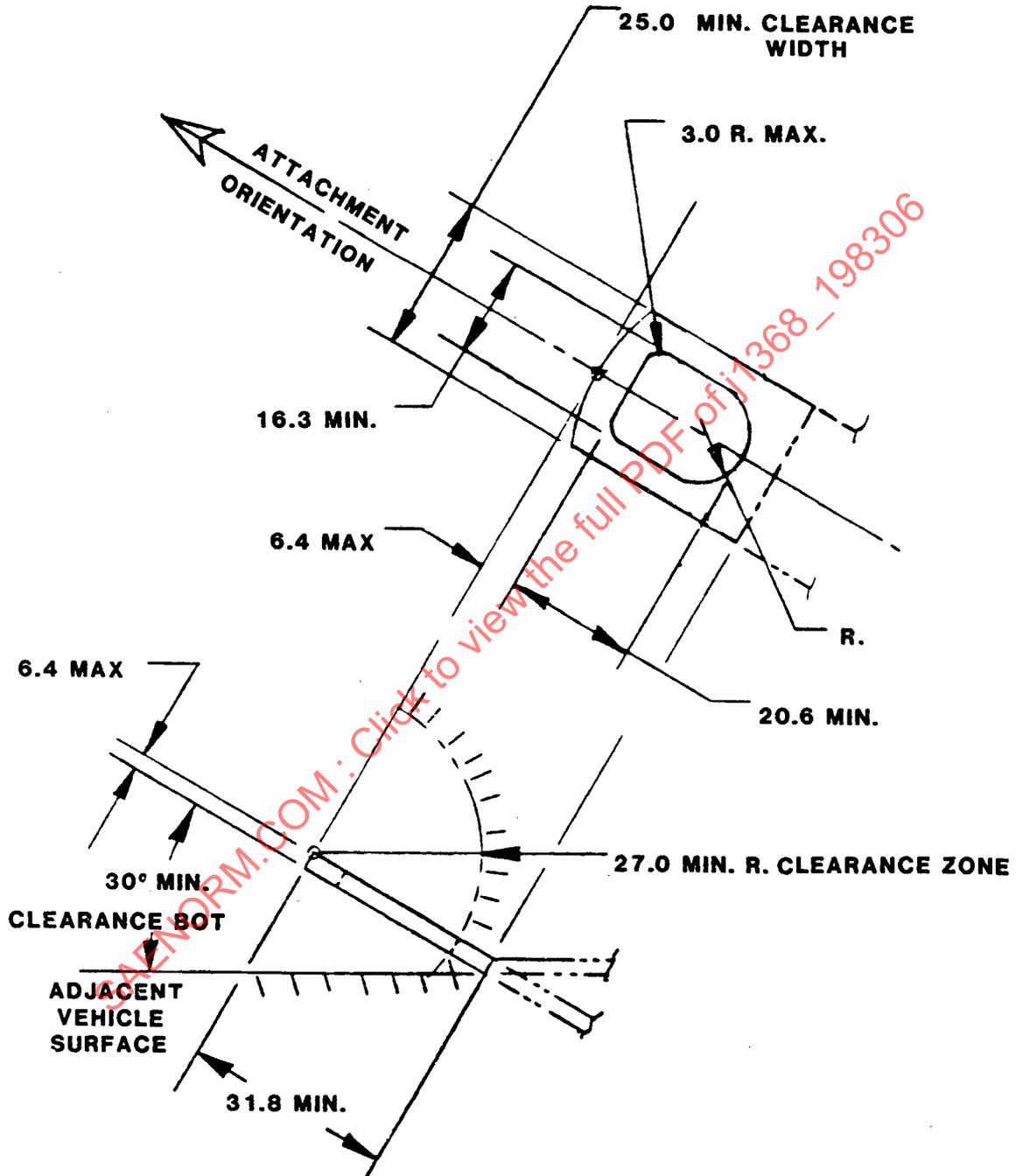
The purpose of this SAE Recommended Practice is to provide design guidelines to vehicle manufacturers by establishing characteristics of anchorages and attachment hardware provisions at the passenger front seat outboard seating location for securing a child seating system in vehicles equipped with automatic (passive) restraint systems that are not suitable for use with a child seating system. Further, it is intended to provide interface information to child restraint manufacturers. The anchorage and hardware configuration and location as well as interface parameters are described along with performance and identification requirements.

3. ANCHORAGE PARAMETERS:

3.1 Attachment Hardware: The attachment hardware, shown in Fig. 1, may be a separate part or integral with some other attachment (e.g., seat belt retractor). The space both below and above the hardware (refer to Fig. 1) shall be clear of obstruction to facilitate attachment of the child safety device.

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FIGURE 1 - Attachment Hardware

- 3.2 Anchorage Location: At the front seat outboard passenger seating position, the two anchorages should be located according to SAE J383, section 4, Location of Pelvic Restraint Anchorages, and shall be readily accessible and visible from the passenger compartment.
- 3.3 Anchorage and Attachment Hardware Performance: Strength requirements, the method of load testing, and corrosion protection shall be in accordance with the pelvic restraint requirement of SAE J383 (section 6), J384 (section 4), and J385 (4.1.1), except that the loading to the pelvic body block, applied through the attachment hardware, shall be not less than 13 350 N (3000 lbf).
- 3.4 Identification: The attachment hardware provided by this recommended practice shall be identified and be apparent to anyone installing child restraints thereto.

4. INTERFACE CONSIDERATIONS:

To fully meet the intent of this recommended practice with regard to convenience, any auxiliary attachment device intended for use with the hardware specified above should:

- (1) be compatible with the size and clearance constraints shown in Fig. 1 to facilitate ease of child restraint installation. The attachment hardware shown in Fig. 1 is not designed for direct attachment of the webbing.
- (2) include a quick release mechanism to allow for rapid removal of the child restraint from the vehicle.
- (3) be identified for use with child restraint systems only.