<table>
<thead>
<tr>
<th>No.</th>
<th>Revised</th>
<th>Issue Date</th>
<th>Effective Date</th>
<th>Date Presented by JASIC</th>
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<tr>
<td>1.</td>
<td>44FR72147</td>
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<td>2.</td>
<td>55FR30467</td>
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<td>3.</td>
<td>57FR41423</td>
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<td>5.</td>
<td>58FR19776</td>
<td>1993/4/16</td>
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<td>6.</td>
<td>58FR36152</td>
<td>1993/7/6</td>
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<td>12.</td>
<td>60FR35126</td>
<td>1995/7/6</td>
<td>see Remarks</td>
<td>1995/8/21</td>
<td>Child restraint systems 1996/1/3, built–in systems 1996/9/1</td>
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<td>1996/6/18</td>
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<td>1999/3/30</td>
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<td>64FR10815</td>
<td>1999/3/5</td>
<td>1999/9/1</td>
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*Japan Automobile Standards Internationalization Center*
§ 571.213 Standard No. 213; Child restraint systems.

S1. **Scope.**

This standard specifies requirements for child restraint systems used in motor vehicles and aircraft.

S2. **Purpose.**

The purpose of this standard is to reduce the number of children killed or injured in motor vehicle crashes and in aircraft.

S3. **Application.**

This standard applies to passenger cars, multipurpose passenger vehicles, trucks and buses, and to child restraint systems for use in motor vehicles and aircraft.

S4. **Definitions.**

*Add-on child restraint system* means any portable child restraint system.

*Backless child restraint system* means a child restraint, other than a belt-positioning seat, that consists of a seating platform that does not extend up to provide a cushion for the child's back or head and has a structural element designed to restrain forward motion of the child's torso in a forward impact.

*Belt-positioning seat* means a child restraint system that positions a child on a vehicle seat to improve the fit of a vehicle Type II belt system on the child and that lacks any component, such as a belt system or a structural element, designed to restrain forward movement of the child's torso in a forward impact.

*Booster seat* means either a backless child restraint system or a belt-positioning seat.

*Built-in child restraint system* means a child restraint system that is designed to be an integral part of and permanently installed in a motor vehicle.

*Car bed* means a child restraint system designed to restrain or position a child in the supine or prone position on a continuous flat surface.

*Child restraint anchorage system* is defined in S3 of FMVSS No. 225 (§571.225).

*Child restraint system* means any device except Type I or Type II seat belts, designed for use in a motor vehicle or aircraft to restrain, seat, or position children who weigh 50lb. or less.

*Contactable surface* means any child restraint system surface (other than that of a belt, belt buckle, or belt adjustment hardware) that may contact any part of the head or torso of the appropriate test dummy, specified in S7., when a child restraint system is tested in accordance with S6.1.

*Factory-installed built-in child restraint system* means a built-in child restraint system that has been or will be permanently installed in a motor vehicle before that vehicle is certified as a completed or altered vehicle in accordance with part 567 of this chapter.

*Rear-facing child restraint system* means a child restraint system, except a car bed, that positions a child to face in the direction opposite to the normal direction of travel of the motor vehicle.

*Representative aircraft passenger seat* means either a Federal Aviation Administration approved production aircraft passenger seat or a simulated aircraft passenger seat conforming to Figure 6.

*Seat orientation reference line or SORL* means the horizontal line through Point Z as illustrated in Figure 1A.

*Specific vehicle shell* means the actual vehicle model part into which the built-in child restraint system is or is intended to be fabricated, including the complete surroundings...
of the built-in system. If the built-in child restraint system is or is intended to be fabricated as part of any seat other than a front seat, these surroundings include the back of the seat in front, the interior rear side door panels and trim, the floor pan, adjacent pillars (e.g., the B and C pillars), and the ceiling. If the built-in system is or is intended to be fabricated as part of the front seat, these surroundings include the dashboard, the steering mechanism and its associated trim hardware, any levers and knobs installed on the floor or on a console, the interior front side door panels and trim, the front seat, the floor pan, the A pillars and the ceiling.

_Tether anchorage is defined in S3 of FMVSS No. 225 (§571.225)._

_Tether strap is defined in S3 of FMVSS No. 225 (§571.225)._

_Tether hook is defined in S3 of FMVSS No. 225 (§571.225)._

_Torso means the portion of the body of a seated anthropomorphic test dummy, excluding the thighs, that lies between the top of the child restraint system seating surface and the top of the shoulders of the test dummy._

**S5. Requirements.**

(a) Each motor vehicle with a built-in child restraint system shall meet the requirements in this section when, as specified, tested in accordance with S6.1. and this paragraph.

(b) Each child restraint system manufactured for use in motor vehicles shall meet the requirements in this section when, as specified, tested in accordance with S6.1. and this paragraph. Each add-on system shall meet the requirements at each of the restraint's seat back angle adjustment positions and restraint belt routing positions, when the restraint is oriented in the direction recommended by the manufacturer (e.g., forward, rearward or laterally) pursuant to S5.6., and tested with the test dummy specified in S7.

(c) Each child restraint system manufactured for use in aircraft shall meet the requirements in this section and the additional requirements in S8.

**S5.1. Dynamic performance.**

**S5.1.1. Child restraint system integrity.**

When tested in accordance with S6.1., each child restraint system shall meet the requirements of paragraphs (a) through (c) of this section.

(a) Exhibit no complete separation of any load bearing structural element and no partial separation exposing either surfaces with a radius of less than 1/4in. or surfaces with protrusions greater than 3/8in. above the immediate adjacent surrounding contactable surface of any structural element of the system.

(b) If adjustable to different positions, remain in the same adjustment position during the testing that it was in immediately before the testing, except as otherwise specified in paragraph (b)(2).

(1) Subject to paragraph (b)(2)(ii), a rear-facing child restraint system may have a means for repositioning the seating surface of the system that allows the system's occupant to move from a reclined position to an upright position and back to a reclined position during testing.

(ii) No opening that is exposed and is larger than 1/4in. before the testing shall become smaller during the testing as a result of the movement of the seating surface relative to the restraint system as a whole.

(c) If a front facing child restraint system, not allow the angle between the system's back support surfaces for the child and the system's seating surface to be less than 45degrees at the completion of the test.
S5.1.2.  

**Injury criteria.**

When tested in accordance with S6.1., each child restraint system that, in accordance with S5.5.2.(f), is recommended for use by children whose masses are more than 10 kilograms (kg) shall--

(a) Limit the resultant acceleration at the location of the accelerometer mounted in the test dummy head as specified in part 572 such that the expression:

\[
\frac{1}{(t_2 - t_1)} \int_{t_1}^{t_2} |a(t)|^{2.5} dt \leq 1000,
\]

shall not exceed 1,000, where \(a\) is the resultant acceleration expressed as a multiple of \(g\) (the acceleration of gravity), and \(t_1\) and \(t_2\) are any two moments during the impacts.

(b) Limit the resultant acceleration at the location of the accelerometer mounted in the test dummy upper thorax as specified in part 572 to not more than 60 g’s, except for intervals whose cumulative duration is not more than 3 ms.

S5.1.3.  

**Occupant excursion.**

When tested in accordance with S6.1 and the requirements specified in this section, each child restraint system shall meet the applicable excursion limit requirements specified in S5.1.3.1-S5.1.3.3.

S5.1.3.1.  

**Child restraint systems other than rear-facing ones and car beds.**

Each child restraint system, other than a rear-facing child restraint system or a car bed, shall retain the test dummy’s torso within the system.

(a) For each add-on child restraint system:

(1) No portion of the test dummy's head shall pass through a vertical transverse plane that is 720 mm or 813 mm (as specified in the table in this S5.1.3.1) forward of point \(Z\) on the standard seat assembly, measured along the center SORL (as illustrated in figure 1B of this standard); and

(2) Neither knee pivot point shall pass through a vertical transverse plane that is 915 mm forward of point \(Z\) on the standard seat assembly, measured along the center SORL.

(b) In the case of a built-in child restraint system, neither knee pivot point shall, at any time during the dynamic test, pass through a vertical transverse plane that is 305 mm forward of the initial pre-test position of the respective knee pivot point, measured along a horizontal line that passes through the knee pivot point and is parallel to the vertical longitudinal plane that passes through the vehicle's longitudinal centerline.
ADD-ON FORWARD-FACING CHILD RESTRAINTS

<table>
<thead>
<tr>
<th>When this type of child restraint is</th>
<th>Is tested in accordance with</th>
<th>These excursion limits apply</th>
<th>Explanatory note: In the test specified in 2nd column, the child restraint is attached to the test seat assembly in the manner described below, subject to certain conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harnesses, backless booster seats with tethers, and restraints designed for use by physically handicapped children.</td>
<td>S6.1.2.(a)(1)(A)(i)</td>
<td>Head 813 mm; Knee 915 mm</td>
<td>Attached with lap belt; in addition, if a tether is provided, it is attached.</td>
</tr>
<tr>
<td>Belt-positioning seats</td>
<td>S6.1.2.(a)(1)(B)</td>
<td>Head 813 mm; Knee 915 mm</td>
<td>Attached with lap and shoulder belt; no tether is attached.</td>
</tr>
<tr>
<td>All other child restraints, manufactured before September 1, 1999.</td>
<td>S6.1.2.(a)(1)(A)(ii)</td>
<td>Head 813 mm; Knee 915 mm</td>
<td>Attached with lap belt; no tether is attached.</td>
</tr>
<tr>
<td>All other child restraints, manufactured on or after September 1, 1999.</td>
<td>S6.1.2.(a)(1)(A)(ii)</td>
<td>Head 813 mm; Knee 915 mm</td>
<td>Attached with lap belt; no tether is attached.</td>
</tr>
<tr>
<td></td>
<td>S6.1.2.(a)(1)(A)(iv) (beginning September 1, 2002).</td>
<td></td>
<td>Attached to lower anchorages of child restraint anchorage system; no tether is attached.</td>
</tr>
<tr>
<td></td>
<td>S6.1.2.(a)(1)(A)(i)</td>
<td>Head 720 mm; Knee 915 mm</td>
<td>Attached with lap belt; in addition, if a tether is provided, it is attached.</td>
</tr>
<tr>
<td></td>
<td>S6.1.2.(a)(1)(A)(iii) (beginning September 1, 2002).</td>
<td></td>
<td>Attached to lower anchorages of child restraint anchorage system; in addition, if a tether is provided, it is attached.</td>
</tr>
</tbody>
</table>

S5.1.3.2.  

*Rear-facing child restraint systems.*

In the case of each rear-facing child restraint system, all portions of the test dummy's torso shall be retained within the system and neither of the target points on either side of the dummy's head and on the transverse axis passing through the center of mass of the dummy's head and perpendicular to the head's midsagittal plane, shall pass through the transverse orthogonal planes whose intersection contains the forward-most and top-most points on the child restraint system surfaces (illustrated in Figure 1C).

S5.1.3.3.  

*Car beds.*

In the case of car beds, all portions of the test dummy's head and torso shall be retained within the confines of the car bed.

S5.1.4.  

*Back support angle.*

When a rear-facing child restraint system is tested in accordance with S6.1., the angle between the system's back support surface for the child and the vertical shall not exceed 70 degrees.
S5.2. **Force distribution.**

S5.2.1. **Minimum head support surface—child restraints other than car beds.**

S5.2.1.1. Except as provided in S5.2.1.2., each child restraint system other than a car bed shall provide restraint against rearward movement of the head of the child (rearward in relation to the child) by means of a continuous seat back which is an integral part of the system and which—

(a) Has a height, measured along the system seat back surface for the child in the vertical longitudinal plane passing through the longitudinal centerline of the child restraint systems from the lowest point on the system seating surface that is contacted by the buttocks of the seated dummy, as follows:

<table>
<thead>
<tr>
<th>Weight¹ (in lb.)</th>
<th>Height² (in in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 20 lb.</td>
<td>18</td>
</tr>
<tr>
<td>20 lb or more, but not more than 40 lb.</td>
<td>20</td>
</tr>
<tr>
<td>More than 40 lb.</td>
<td>22</td>
</tr>
</tbody>
</table>

1 When a child restraint system is recommended under S5.5.(f) for use by children of the above weights.

2 The height of the portion of the system seat back providing head restraint shall not be less than the above.

(b) Has a width of not less than 8in., measured in the horizontal plane at the height specified in paragraph (a) of this section. Except that a child restraint system with side supports extending at least 4in. forward from the padded surface of the portion of the restraint system provided for support of the child's head may have a width of not less than 6in., measured in the horizontal plane at the height specified in paragraph (a) of this section.

(c) Limits the rearward rotation of the test dummy head so that the angle between the head and torso of the dummy specified in S7. when tested in accordance with S6.1. is not more than 45 degrees greater than the angle between the head and torso after the dummy has been placed in the system in accordance with S6.1.2.3. and before the system is tested in accordance with S6.1.

S5.2.1.2. The applicability of the requirements of S5.2.1.1. to a front-facing child restraint, and the conformance of any child restraint other than a car bed to those requirements is determined using the largest of the test dummies specified in S7.1. for use in testing that restraint; provided, that the 6-year-old dummy described in subpart I of part 572 of this title is not used to determine the applicability of or compliance with S5.2.1.1. A front-facing child restraint system is not required to comply with S5.2.1.1. if the target point on either side of the dummy's head is below a horizontal plane tangent to the top of--

(a) The standard seat assembly, in the case of an add-on child restraint system, when the dummy is positioned in the system and the system is installed on the assembly in accordance with S6.1.2.

(b) The vehicle seat, in the case of a built-in child restraint system, when the system is activated and the dummy is positioned in the system in accordance with S6.1.2.

S5.2.2. **Torso impact protection.**

Each child restraint system other than a car bed shall comply with the applicable requirements of S5.2.2.1. and S5.2.2.2.

S5.2.2.1. (a) The system surface provided for the support of the child's back shall be flat or
concave and have a continuous surface area of not less than 85in\(^2\).

(b) Each system surface provided for support of the side of the child's torso shall be flat or concave and have a continuous surface of not less than 24in\(^2\) for systems recommended for children weighing 20lb. or more, or 48in\(^2\) for systems recommended for children weighing less than 20lb.

(c) Each horizontal cross section of each system surface designed to restrain forward movement of the child's torso shall be flat or concave and each vertical longitudinal cross section shall be flat or convex with a radius of curvature of the underlying structure of not less than 2in.

S5.2.2. Each forward-facing child restraint system shall have no fixed or movable surface---

(a) Directly forward of the dummy and intersected by a horizontal line---

(1) Parallel to the SORL, in the case of the add-on child restraint system, or

(2) Parallel to a vertical plane through the longitudinal center line of the vehicle seat, in the case of a built-in child restraint system, and,

(b) Passing through any portion of the dummy, except for surfaces which restrain the dummy when the system is tested in accordance with S6.1.2.(a)(2), so that the child restraint system shall conform to the requirements of S5.1.2. and S5.1.3.1.

S5.2.3. Head impact protection.

S5.2.3.1. Each child restraint system, other than a child harness, which is recommended under S5.5.2.(f) for children whose masses are less than 10kg, shall comply with S5.2.3.2.

S5.2.3.2. Each system surface, except for protrusions that comply with S5.2.4., which is contactable by the dummy head when the system is tested in accordance with S6.1. shall be covered with slow recovery, energy absorbing material with the following characteristics:

(a) A 25% compression-deflection resistance of not less than 0.5 and not more than 10lb./in\(^2\) when tested in accordance with S6.3.

(b) A thickness of not less than 1/2in. for materials having a 25% compression-deflection resistance of not less than 1.8 and not more than 10lb./in\(^2\) when tested in accordance with S6.3. Materials having a 25% compression-deflection resistance of less than 1.8lb./in\(^2\) shall have a thickness of not less than 3/4in.

S5.2.4. Protrusion limitation.

Any portion of a rigid structural component within or underlying a contactable surface, or any portion of a child restraint system surface that is subject to the requirements of S5.2.3. shall, with any padding or other flexible overlay material removed, have a height above any immediately adjacent restraint system surface of not more than 3/8in. and no exposed edge with a radius of less than 1/4in.

S5.3. Installation.

S5.3.1. Except for components designed to attach to a child restraint anchorage system, each add-on child restraint system shall not have any means designed for attaching the system to a vehicle seat cushion or vehicle seat back and any component (except belts) that is designed to be inserted between the vehicle seat cushion and vehicle seat back.

S5.3.2. Each add-on child restraint system shall be capable of meeting the requirements of this standard when installed on the vehicle seating assembly solely by each of the means indicated in the following table for the particular type of child restraint system:
S5.3.3. **Car beds.**

Each car bed shall be designed to be installed on a vehicle seat so that the car bed's longitudinal axis is perpendicular to a vertical longitudinal plane through the longitudinal axis of the vehicle.

S5.4. **Belts, belt buckles, and belt webbing.**

S5.4.1. **Performance requirements.**

The webbing of belts provided with a child restrain system and used to attach the system to the vehicle or to restrain the child within the system shall--

(a) After being subjected to abrasion as specified in S5.1.(d) or S5.3.(c) of FMVSS 209 (Sec. 571.209), have a breaking strength of not less than 75% of the strength of the unabraded webbing when tested in accordance with S5.1.(b) of FMVSS 209.

(b) Meet the requirements of S4.2.(e) and (f) of FMVSS No. 209 (Sec. 571.209); and

(c) If contactable by the test dummy torso when the system is tested in accordance with S6.1., have a width of not less than 11/2in. when measured in accordance with S5.4.1.1.

S5.4.1.1. **Width test procedure.**

Condition the webbing for 24 hours in an atmosphere of any relative humidity between 48 and 67%, and any ambient temperature between 70 degrees and 77 degrees F. Measure belt webbing width under a tension of 5lb. applied lengthwise.

S5.4.2. **Belt buckles and belt adjustment hardware.**

Each belt buckle and item of belt adjustment hardware used in a child restraint system shall conform to the requirements of S4.3.(a) and S4.3.(b) of FMVSS No. 209 (Sec. 571.209).

S5.4.3. **Belt Restraint.**

<table>
<thead>
<tr>
<th>Type of add-on child restraint system</th>
<th>Means of installation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Type 1 seat belt assembly</td>
</tr>
<tr>
<td>Harnesses</td>
<td>X</td>
</tr>
<tr>
<td>Car beds</td>
<td>X</td>
</tr>
<tr>
<td>Rear-facing restraints</td>
<td>X</td>
</tr>
<tr>
<td>Belt-positioning seats</td>
<td>X</td>
</tr>
<tr>
<td>All other child restraints</td>
<td>X</td>
</tr>
</tbody>
</table>
S5.4.3.1. **General.**

Each belt that is part of a child restraint system and that is designed to restrain a child using the system shall be adjustable to snugly fit any child whose height and weight are within the ranges recommended in accordance with S5.5.2.(f) and who is positioned in the system in accordance with the instructions required by S5.6.

S5.4.3.2. **Direct restraint.**

Except for a child restraint system whose mass is less than 4.4kg, each belt that is part of a child restraint system and that is designed to restrain a child using the system and to attach the system to the vehicle, and each Type I and lap portion of a Type II vehicle belt that is used to attach the system to the vehicle shall, when tested in accordance with S6.1., impose no loads on the child that result from the mass of the system, or

(a) In the case of an add-on child restraint system, from the mass of the seat back of the standard seat assembly specified in S6.1., or

(b) In the case of a built-in child restraint system, from the mass of any part of the vehicle into which the child restraint system is built.

S5.4.3.3. **Seating systems.**

Except for child restraint systems subject to S5.4.3.4., each child restraint system that is designed for use by a child in a seated position and that has belts designed to restrain the child, shall, with the test dummy specified in S7, positioned in the system in accordance with S10, provide:

(a) Upper torso restraint in the form of:

(i) Belts passing over each shoulder of the child, or

(ii) A fixed or movable surface that complies with S5.2.2.1.(c), and

(b) Lower torso restraint in the form of:

(i) A lap belt assembly making an angle between 45 degrees and 90 degrees with the child restraint seating surface at the lap belt attachment points, or

(ii) A fixed or movable surface that complies with S5.2.2.1.(c), and

(c) In the case of each seating system recommended for children whose masses are more than 10kg, crotch restraint in the form of:

(i) A crotch belt connectable to the lap belt or other device used to restrain the lower torso, or

(ii) A fixed or movable surface that complies with S5.2.2.1.(c).

S5.4.3.4. **Harnesses.**

Each child harness shall:

(a) Provide upper torso restraint, including belts passing over each shoulder of the child;

(b) Provide lower torso restraint by means of lap and crotch belt; and

(c) Prevent a child of any height for which the restraint is recommended for use pursuant to S5.5.2.(f) from standing upright on the vehicle seat when the child is placed in the device in accordance with the instructions required by S5.6.

S5.4.3.5. **Buckle release.**

Any buckle in a child restraint system belt assembly designed to restrain a child using the system shall:

(a) When tested in accordance with S6.2.1. prior to the dynamic test of S6.1., not release when a force of less than 40 newtons (N) is applied and shall release when a force of not more than 62N is applied;

(b) After the dynamic test of S6.1., when tested in accordance with the appropriate
sections of S6.2., release when a force of not more than 71N is applied, provided, however, that the conformance of any child restraint to this requirement is determined using the largest of the test dummies specified in S7. for use in testing that restraint when the restraint is facing forward, rearward, and/or laterally;

(c) Meet the requirements of S4.3.(d)(2) of FMVSS No. 209 (Sec. 571.209), except that the minimum surface area for child restraint buckles designed for push button application shall be 0.6in²;

(d) Meet the requirements of S4.3.(g) of FMVSS No. 209 (Sec. 571.209) when tested in accordance with S5.2.(g) of FMVSS No. 209; and

(e) Not release during the testing specified in S6.1.

S5.5. 

Labeling.

S5.5.1. Each add-on child restraint system shall be permanently labeled with the information specified in S5.5.2. (a) through (m).

S5.5.2. The information specified in paragraphs (a) through (m) of this section shall be stated in the English language and lettered in letters and numbers that are not smaller than 10 point type and are on a contrasting background.

(a) The model name or number of the system.

(b) The manufacturer's name. A distributor's name may be used instead if the distributor assumes responsibility for all duties and liabilities imposed on the manufacturer with respect to the system by the National Traffic and Motor Vehicle Safety Act, as amended.

(c) The statement: "Manufactured in __________," inserting the month and year of manufacture.

(d) The place of manufacture (city and State, or foreign country). However, if the manufacturer uses the name of the distributor, then it shall state the location (city and State, or foreign country) of the principal offices of the distributor.

(e) The statement: "This child restraint system conforms to all applicable Federal motor vehicle safety standards."

(f) One of the following statements, inserting the manufacturer's recommendations for the maximum mass and height of children who can safely occupy the system, except that booster seats shall not be recommended for children whose masses are less than 13.6kg:

(1) This infant restraint is designed for use by children who weigh ______lb. (_______kg) or less and whose height is (insert values in English and metric units; use of word "mass" in label is optional) or less; or

(2) This child restraint is designed for use only by children who weigh between ______and ______lb. (insert appropriate metric values; use of word "mass" is optional) and whose height is (insert appropriate values in English and metric units) or less and who are capable of sitting upright alone; or

(3) This child restraint is designed for use only by children who weigh between ______and ______lb. (insert appropriate metric values; use of word "mass" is optional) and whose height is between ______and ______in. (insert appropriate values in English and metric units).

(g) The following statement, inserting the location of the manufacturer's installation instruction booklet or sheet on the restraint:

WARNING! FAILURE TO FOLLOW EACH OF THE FOLLOWING INSTRUCTIONS CAN RESULT IN YOUR CHILD STRIKING THE VEHICLE'S INTERIOR DURING A SUDDEN STOP OR CRASH.

SECURE THIS CHILD RESTRANET WITH A VEHICLE BELT AS SPECIFIED IN THE MANUFACTURER'S INSTRUCTIONS LOCATED___.

(h) In the case of each child restraint system that has belts designed to restrain children using them:

SNUGLY ADJUST THE BELTS PROVIDED WITH THIS CHILD
RESTRAINT AROUND YOUR CHILD.

(i) For a booster seat that is recommended for use with either a vehicle's Type I or Type II seat belt assembly, one of the following statements, as appropriate:

(i) **WARNING! USE ONLY THE VEHICLE'S LAP AND SHOULDER BELT SYSTEM WHEN RESTRaining THE CHILD IN THIS BOOSTER SEAT; or,**

(ii) **WARNING! USE ONLY THE VEHICLE'S LAP BELT SYSTEM, OR THE LAP BELT PART OF A LAP/SHOULDER BELT SYSTEM WITH THE SHOULDER BELT PLACED BEHIND THE CHILD, WHEN RESTRaining THE CHILD IN THIS SEAT.**

(2) Except as provided in paragraph (i)(2)(ii) of this section, for a booster seat which is recommended for use with both a vehicle's Type I and Type II seat belt assemblies, the following statement:

**WARNING! USE ONLY THE VEHICLE'S LAP BELT SYSTEM, OR THE LAP BELT PART OF A LAP/SHOULDER BELT SYSTEM WITH THE SHOULDER BELT PLACED BEHIND THE CHILD, WHEN RESTRaining THE CHILD WITH THE insert description of the system element provided to restrain forward movement of the child's torso when used with a lap belt (e.g., shield), AND ONLY THE VEHICLE'S LAP AND SHOULDER BELT SYSTEM WHEN USING THIS BOOSTER WITHOUT THE insert above description.**

(ii) A booster seat which is recommended for use with both a vehicle's Type I and Type II seat belt assemblies is not subject to S5.5.2.(i)(2)(i) if, when the booster is used with the shield or similar component, the booster will cause the shoulder belt to be located in a position other than in front of the child when the booster is installed. However, such a booster shall be labeled with a warning to use the booster with the vehicle's lap and shoulder belt system when using the booster without a shield.

(j) In the case of each child restraint system equipped with an anchorage strap, the statement:

**SECURE THE TOP ANCHORAGE STRAP PROVIDED WITH THIS CHILD RESTRAINT AS SPECIFIED IN THE MANUFACTURER'S INSTRUCTIONS.**

(k) At the manufacturer's option, child restraint systems manufactured before May 27, 1997 may comply with the requirements of S5.5.2.(k)(4) or S5.5.2.(k)(5) as appropriate, instead of the requirements of S5.5.2.(k)(1)(ii) or S5.5.2.(k)(2)(ii).

(1) In the case of each rear-facing child restraint system that is designed for infants only, the following statements--

(i) "PLACE THIS INFANT RESTRAINT IN A REAR-FACING POSITION WHEN USING IT IN THE VEHICLE."

(ii) "WARNING: DO NOT PLACE THIS RESTRAINT IN THE FRONT SEAT OF A VEHICLE THAT HAS A PASSENGER SIDE AIR BAG. (insert a statement that describes the consequences of not following the warning.)"

(2) In the case of a child restraint system that is designed to be used rearward-facing for infants and forward facing for older children, the following statements--

(i) "PLACE THIS CHILD RESTRAINT IN A REAR-FACING POSITION WHEN USING IT WITH AN INFANT WEIGHING LESS THAN (insert a recommended weight that is not less than 20lb.)."

(ii) "WARNING: WHEN THIS RESTRAINT IS USED REAR-FACING, DO NOT PLACE IT IN THE FRONT SEAT OF A VEHICLE THAT HAS A PASSENGER SIDE AIR BAG. (Insert a statement that describes the consequences of not following the warning.)"

(3) The statements required by paragraphs (k)(1)(ii) and (k)(2)(ii) shall be on a red, orange or yellow contrasting background, and placed on the restraint so that it is on the side of the restraint designed to be adjacent to the front passenger door of
a vehicle and is visible to a person installing the rear-facing child restraint system in the front passenger seat.

(4) Except as provided in (k)(5) of this section, in the case of each child restraint system that can be used in a rear-facing position and is manufactured on or after May 27, 1997, instead of the warning specified in S5.5.2.(k)(1)(ii) or S5.5.2.(k)(2)(ii) of this standard, a label that conforms in content to Figure 10 and to the requirements of S5.5.2.(k)(4)(i) through S5.5.2.(k)(4)(iii) of this standard shall be permanently affixed to the outer surface of the cushion or padding in or adjacent to the area where a child's head would rest, so that the label is plainly visible and easily readable.

(i) The heading area shall be yellow with the word "warning" and the alert symbol in black.

(ii) The message area shall be white with black text. The message area shall be no less than 30cm².

(iii) The pictogram shall be black with a red circle and slash on a white background. The pictogram shall be no less than 30mm in diameter.

(5) If a child restraint system is equipped with a device that deactivates the passenger-side air bag in a vehicle when and only when the child restraint is installed in the vehicle and provides a signal, for at least 60 seconds after deactivation, that the air bag is deactivated, the label specified in Figure 10 may include the phrase "unless air bag is off" after "on front seat with air bag."

(l) An installation diagram showing the child restraint system installed in:

(1) A seating position equipped with a continuous-loop lap/shoulder belt; and

(2) A seating position equipped with only a lap belt, as specified in the manufacturer's instructions.

(m) The following statement, inserting an address and telephone number: "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address and the restraint's model number and manufacturing date to (insert address) or call (insert telephone number). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393 (202-366-0123 in DC area)."

(n) Child restraint systems, other than belt-positioning seats, harnesses and backless child restraint systems, may be certified as complying with the provisions of S8. Child restraints that are so certified shall be labeled with the statement "This Restraint is Certified for Use in Motor Vehicles and Aircraft." Belt-positioning seats, harnesses and backless child restraint systems shall be labeled with the statement "This Restraint is Not Certified for Use in Aircraft." The statement required by this paragraph shall be in red lettering and shall be placed after the certification statement required by S5.5.2.(e).

S5.5.3.

The information specified in S5.5.2. (g) through (k) shall be located on the add-on child restraint system so that it is visible when the system is installed as specified in S5.6.1.

S5.5.4.

(a) Each built-in child restraint system other than a factory-installed built-in restraint shall be permanently labeled with the information specified in S5.5.5. (a) through (l). The information specified in S5.5.5. (a) through (j) and in S5.5.5. (l) shall be visible when the system is activated for use.

(b) Each factory-installed built-in child restraint shall be permanently labeled with the information specified in S5.5.5. (f) through (j) and S5.5.5. (l), so that the information is visible when the restraint is activated for use. The information shall also be included in the vehicle owner's manual.

S5.5.5.

The information specified in paragraphs (a) through (l) of this section that is required by S5.5.4. shall be in English and lettered in letters and numbers that are not smaller than 10-point type and are on a contrasting background.
(a) The model name or number of the system.
(b) The manufacturer's name. A distributor's or dealer's name may be used instead if the distributor or dealer assumes responsibility for all duties and liabilities imposed on the manufacturer with respect to the system by the National Traffic and Motor Vehicle Safety Act, as amended.
(c) The statement: "Manufactured in______," inserting the month and year of manufacture.
(d) The place of manufacture (city and State, or foreign country). However, if the manufacturer uses the name of the distributor or dealer, then it shall state the location (city and State, or foreign country) of the principal offices of the distributor or dealer.
(e) The statement: "This child restraint system conforms to all applicable Federal motor vehicle safety standards."
(f) One of the following statements, inserting the manufacturer's recommendations for the maximum mass and height of children who can safely occupy the system, except that booster seats shall not be recommended for children whose masses are less than 13.6kg:
   (1) This infant restraint is designed for use by children who weigh _______lb. (______kg) or less and whose height is (insert values in English and metric units; use of word "mass" in label is optional); or
   (2) This child restraint is designed for use only by children who weigh between _______ and _______lb. (insert appropriate metric values; use of word "mass" is optional) and whose height is (insert appropriate values in English and metric units) or less and who are capable of sitting upright alone; or
   (3) This child restraint is designed for use only by children who weigh between _______ and _______lb. (insert appropriate metric values; use of word "mass" is optional) and whose height is between _______ and _______in. (insert appropriate values in English and metric units).
(g) The statement specified in paragraph (1), and if appropriate, the statement in paragraph (2):
   (1) WARNING! FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS ON THE USE OF THIS CHILD RESTRAINT SYSTEM CAN RESULT IN YOUR CHILD STRIKING THE VEHICLE'S INTERIOR DURING A SUDDEN STOP OR CRASH.
   (2) In the case of each built-in child restraint system which is not intended for use in the motor vehicle in certain adjustment positions or under certain circumstances, an appropriate statement of the manufacturer's restrictions regarding those positions or circumstances, in capitalized letters.
(h) In the case of each built-in child restraint system that has belts designed to restrain children using them:
   SNUGLY ADJUST THE BELTS PROVIDED WITH THIS CHILD RESTRAINT AROUND YOUR CHILD.
(i) In the case of each built-in child restraint which can be used in a rear-facing position, the following statement:
   PLACE AN INFANT IN A REAR-FACING POSITION IN THIS CHILD RESTRAINT.
(j) A diagram or diagrams showing the fully activated child restraint system in infant and/or child configurations.
(k) The following statement, inserting an address and telephone number: "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address and the restraint's model number and manufacturing date to (insert address) or call (insert telephone number). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393 (202-366-0123 in DC area)."
(l) In the case of a built-in belt-positioning seat that uses either the vehicle's Type I or Type II belt systems or both, a statement describing the manufacturer's
recommendations for the maximum height and weight of children who can safely occupy the system and how the booster should be used (e.g., with or without shield) with the different vehicle belt systems.

S5.6. Printed Instructions for Proper Use.

S5.6.1. Add-on child restraint systems.

Each add-on child restraint system shall be accompanied by printed installation instructions in English that provide a step-by-step procedure, including diagrams, for installing the system in motor vehicles, securing the system in the vehicles, positioning a child in the system, and adjusting the system to fit the child. For each child restraint system that has components for attaching to a tether anchorage or a child restraint anchorage system, the installation instructions shall include a step-by-step procedure, including diagrams, for properly attaching to that anchorage or system.

S5.6.1.1. In a vehicle with rear designated seating positions, the instructions shall alert vehicle owners that, according to accident statistics, children are safer when properly restrained in the rear seating positions than in the front seating positions.

S5.6.1.2. The instructions shall specify in general terms the types of vehicles, the types of seating positions, and the types of vehicle safety belts with which the add-on child restraint system can or cannot be used.

S5.6.1.3. The instructions shall explain the primary consequences of not following the warnings required to be labeled on the child restraint system in accordance with S5.5.2. (g) through (k).

S5.6.1.4. The instructions for each car bed shall explain that the car bed should position in such a way that the child’s head is near the center of the vehicle.

S5.6.1.5. The instructions shall state that add-on child restraint systems should be securely belted to the vehicle, even when they are not occupied, since in a crash an unsecured child restraint system may injure other occupants.

S5.6.1.6. Each add-on child restraint system shall have a location on the restraint for storing the manufacturer's instructions.

S5.6.1.7. The instructions shall include the following statement, inserting an address and telephone number: "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address and the restraint's model number and manufacturing date to (insert address) or call (insert telephone number). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393 (202-366-0123 in DC area)."

S5.6.1.8. In the case of each child restraint system that can be used in a position so that it is facing the rear of the vehicle, the instructions shall provide a warning against using rear-facing restraints at seating positions equipped with air bags, and shall explain the reasons for, and consequences of not following the warning. The instructions shall also include a statement that owners of vehicles with front passenger side air bags should refer to their vehicle owner's manual for child restraint installation instructions.

S5.6.1.9. In the case of each rear-facing child restraint system that has a means for repositioning the seating surface of the system that allows the system's occupant to move from a reclined position to an upright position during testing, the instructions shall include a warning against impeding the ability of the restraint to change adjustment position.
S5.6.10. (a) For instructions for a booster seat that is recommended for use with either a vehicle's Type I or Type II seat belt assembly, one of the following statements, as appropriate, and the reasons for the statement:

(i) WARNING! USE ONLY THE VEHICLE'S LAP AND SHOULDER BELT SYSTEM WHEN RESTRAINING THE CHILD IN THIS BOOSTER SEAT; or,

(ii) WARNING! USE ONLY THE VEHICLE'S LAP BELT SYSTEM, OR THE LAP BELT PART OF A LAP/SHOULDER BELT SYSTEM WITH THE SHOULDER BELT PLACED BEHIND THE CHILD, WHEN RESTRAINING THE CHILD IN THIS SEAT.

(b) Except as provided in S5.6.10.(b)(ii), the instructions for a booster seat that is recommended for use with both a vehicle's Type I and Type II seat belt assemblies shall include the following statement and the reasons therefor:

WARNING! USE ONLY THE VEHICLE'S LAP BELT SYSTEM, OR THE LAP BELT PART OF A LAP/SHOULDER BELT SYSTEM WITH THE SHOULDER BELT PLACED BEHIND THE CHILD, WHEN RESTRAINING THE CHILD WITH THE INSERT DESCRIPTION OF THE SYSTEM ELEMENT PROVIDED TO RESTRAIN FORWARD MOVEMENT OF THE CHILD'S TORSO WHEN USED WITH A LAP BELT (E.G., SHIELD), AND ONLY THE VEHICLE'S LAP AND SHOULDER BELT SYSTEM WHEN USING THIS BOOSTER WITHOUT THE INSERT ABOVE DESCRIPTION.

(ii) A booster seat which is recommended for use with both a vehicle's Type I and Type II seat belt assemblies is not subject to S5.6.10.(b)(i) if, when the booster is used with the shield or similar component, the booster will cause the shoulder belt to be located in a position other than in front of the child when the booster is installed. However, the instructions for such a booster shall include a warning to use the booster with the vehicle's lap and shoulder belt system when using the booster without a shield.

(c) The instructions for belt-positioning seats shall include the statement, "This restraint is not certified for aircraft use," and the reasons for this statement.

S5.6.2. Built-in child restraint systems.

(a) Each built-in child restraint system shall be accompanied by printed instructions in English that provide a step-by-step procedure, including diagrams, for activating the restraint system, positioning a child in the system, adjusting the restraint and, if provided, the restraint harness to fit the child. The instructions for each built-in car bed shall explain that the child should be positioned in the bed in such a way that the child's head is near the center of the vehicle.

(b) Each motor vehicle equipped with a factory-installed built-in child restraint shall have the information specified in paragraph (a) of this section included in its vehicle owner's manual.

S5.6.2.1. The instructions shall explain the primary consequences of not following the manufacturer's warnings for proper use of the child restraint system in accordance with S5.5.5. (f) through (i).

S5.6.2.2. The instructions for each built-in child restraint system other than a factory-installed restraint, shall include the following statement, inserting an address and telephone number: "Child restraints could be recalled for safety reasons. You must register this restraint to be reached in a recall. Send your name, address and the restraint's model number and manufacturing date to (insert address) or call (insert telephone number). For recall information, call the U.S. Government's Auto Safety Hotline at 1-800-424-9393 (202-366-0123 in DC area)."

S5.6.2.3. Each built-in child restraint system other than a factory-installed built-in restraint, shall
have a location on the restraint for storing the instructions.

S5.6.3. Each built-in child restraint system, other than a system that has been installed in a vehicle or a factory-installed built-in system that is designed for a specific vehicle model and seating position, shall be accompanied by instructions in English that provide a step-by-step procedure for installing the system in a motor vehicle. The instructions shall specify the types of vehicles and the seating positions into which the restraint can or cannot be installed. The instructions for each car bed shall explain that the bed should be installed so that the child's head will be near the center of the vehicle.

S5.6.4. In the case of a built-in belt-positioning seat that uses either the vehicle's Type I or Type II belt systems or both, the instructions shall include a statement describing the manufacturer's recommendations for the maximum height and weight of children who can safely occupy the system and how the booster must be used with the vehicle belt systems appropriate for the booster seat. The instructions shall explain the consequences of not following the directions. The instructions shall specify that, if the booster seat is recommended for use with only the lap-belt part of a Type II assembly, the shoulder belt portion of the assembly must be placed behind the child.

S5.7. Flammability.

Each material used in a child restraint system shall conform to the requirements of S4. of FMVSS No. 302 (571.302). In the case of a built-in child restraint system, the requirements of S4. of FMVSS No. 302 shall be met in both the “in-use” and “stowed” positions.

S5.8. Information requirements--registration form.

(a) Each child restraint system, except a factory-installed built-in restraint system, shall have a registration form attached to any surface of the restraint that contacts the dummy when the dummy is positioned in the system in accordance with S6.1.2. of Standard 213.

(b) Each form shall:

(1) Consist of a postcard that is attached at a perforation to an informational card;

(2) Conform in size, content and format to Figures 9a and 9b of this section; and

(3) Have a thickness of at least 0.007in. and not more than 0.0095in.

(c) Each postcard shall provide the model name or number and date of manufacture (month, year) of the child restraint system to which the form is attached, shall contain space for the purchaser to record his or her name and mailing address, shall be addressed to the manufacturer, and shall be postage paid. No other information shall appear on the postcard, except identifying information that distinguishes a particular child restraint system from other systems of that model name or number may be preprinted in the shaded area of the postcard, as shown in figure 9a.

S5.9. Attachment to child restraint anchorage system.

(a) Each add-on child restraint system manufactured on or after September 1, 2002, other than a car bed, harness and belt-positioning seat, shall have components permanently attached to the system that enable the restraint to be securely fastened to the lower anchorages of the child restraint anchorage system specified in Standard No. 225 (§571.225) and depicted in Drawing Package 100-1000 with Addendum A: Seat Base Weldment (consisting of drawings and a bill of materials) dated October 23, 1998, (incorporated by reference; see § 571.5).

(b) In the case of each child restraint system that is manufactured on or after September 1, 1999 and that has components for attaching the system to a tether
S6. Test conditions and procedures.
S6.1. Dynamic systems test for child restraint systems.

The test conditions described in S6.1.1. apply to the dynamic systems test. The test procedure for the dynamic systems test is specified in S6.1.2. The test dummy specified in S7. is placed in the test specimen (child restraint), clothed as described in S9. and positioned according to S10.

S6.1.1. Test conditions.

(a) Test devices
(1) The test device for add-on restraint systems is a standard seat assembly consisting of a simulated vehicle bench seat, with three seating positions, which is described in Drawing Package SAS-100-1000 with Addendum A: Seat Base Weldment (consisting of drawings and a bill of materials) dated October 23, 1998, (incorporated by reference; see §571.5). The assembly is mounted on a dynamic test platform so that the center SORL of the seat is parallel to the direction of the test platform travel and so that movement between the base of the assembly and the platform is prevented.

(2) The test device for built-in child restraint systems is either the specific vehicle shell or the specific vehicle.

(i) Specific vehicle shell.

(A) The specific vehicle shell, if selected for testing, is mounted on a dynamic test platform so that the longitudinal center line of the shell is parallel to the direction of the test platform travel and so that movement between the base of the shell and the platform is prevented. Adjustable seats are in the adjustment position midway between the forwardmost and rearmost positions, and if separately adjustable in a vertical direction, are at the lowest position. If an adjustment position does not exist midway between the forwardmost and rearmost position, the closest adjustment position to the rear of the midpoint is used. Adjustable seat backs are in the manufacturer's nominal design riding position. If such a position is not specified, the seat back is positioned so that the longitudinal center line of the child test dummy's neck is vertical, and if an instrumented test dummy is used, the accelerometer surfaces in the dummy's head and thorax, as positioned in the vehicle, are horizontal. If the vehicle seat is equipped with adjustable head restraints, each is adjusted to its highest adjustment position.

(B) The platform is instrumented with an accelerometer and data processing system having a frequency response of 60Hz channel class as specified in Society of Automotive Engineers Recommended Practice J211 JUN80 "Instrumentation for Impact Tests." The accelerometer sensitive axis is parallel to the direction of test platform travel.
(ii) Specific vehicle. For built-in child restraint systems, an alternate test device is the specific vehicle into which the built-in system is fabricated. The following test conditions apply to this alternate test device.

(A) The vehicle is loaded to its unloaded vehicle weight plus its rated cargo and luggage capacity weight, secured in the luggage area, plus the appropriate child test dummy and, at the vehicle manufacturer's option, an anthropomorphic test dummy which conforms to the requirements of subpart B or subpart E of part 572 of this title for a 50th percentile adult male dummy placed in the front outboard seating position. If the built-in child restraint system is installed at one of the seating positions otherwise requiring the placement of a part 572 test dummy, then in the frontal barrier crash specified in (c), the appropriate child test dummy shall be substituted for the part 572 adult dummy, but only at that seating position. The fuel tank is filled to any level from 90 to 95% of capacity.

(B) Adjustable seats are in the adjustment position midway between the forward-most and rearmost positions, and if separately adjustable in a vehicle direction, are at the lowest position. If an adjustment position does not exist midway between the forward-most and rearmost positions, the closest adjustment position to the rear of the midpoint is used.

(C) Adjustable seat backs are in the manufacturer's nominal design riding position. If a nominal position is not specified, the seat back is positioned so that the longitudinal center line of the child test dummy's neck is vertical, and if an anthropomorphic test dummy is used, the accelerometer surfaces in the test dummy's head and thorax, as positioned in the vehicle, are horizontal. If the vehicle is equipped with adjustable head restraints, each is adjusted to its highest adjustment position.

(D) Movable vehicle windows and vents are, at the manufacturer's option, placed in the fully closed position.

(E) Convertibles and open-body type vehicles have the top, if any, in place in the closed passenger compartment configuration.

(F) Doors are fully closed and latched but not locked.

(G) All instrumentation and data reduction is in conformance with SAE J211 JUN80.

(b) The tests are frontal barrier impact simulations of the test platform or frontal barrier crashes of the specific vehicles as specified in S5.1. of Sec. 571.208 and for:

(1) Test Configuration I, are at a velocity change of 48km/h with the acceleration of the test platform entirely within the curve shown in Figure 2, or for the specific vehicle test with the deceleration produced in a 48km/h frontal barrier crash.

(2) Test Configuration II, are set at a velocity change of 32km/h with the acceleration of the test platform entirely within the curve shown in Figure 3, or for the specific vehicle test, with the deceleration produced in a 32km/h frontal barrier crash.

(c) As illustrated in Figures 1A and 1B of this standard, attached to the seat belt anchorage points provided on the standard seat assembly are Type 1 seat belt assemblies in the case of add-on child restraint systems other than belt-positioning seats, or Type 2 seat belt assemblies in the case of belt-positioning seats. These seat belt assemblies meet the requirements of Standard No. 209 (§571.209) and have webbing with a width of not more than 2 inches, and are attached to the anchorage points without the use of retractors or reels of any kind. As illustrated in Figures 1A” and 1B” of this standard, attached to the standard seat assembly is a child restraint anchorage system conforming to the specifications of Standard No. 225 (§571.225), in the case of add-on child restraint systems other than belt-positioning booster seats.

(d) Performance tests under S6.1. are conducted at any ambient temperature from 19 degrees C to 26 degrees C and at any relative humidity from 10% to 70%.

(e) In the case of add-on child restraint systems, the restraint shall meet the requirements of S5. at each of its seat back angle adjustment positions and restraint belt routing positions, when the restraint is oriented in the direction
recommended by the manufacturer (e.g., forward, rearward or laterally) pursuant to S5.6., and tested with the test dummy specified in S7.

S6.1.2. Dynamic test procedure.

(a) Activate the built-in child restraint or attach the add-on child restraint to the seat assembly as described below:

(1) Test configuration I.

(i) Child restraints other than belt-positioning seats.

Attach the child restraint in any of the following manners specified in S6.1.2(a)(1)(i)(A) through (D), unless otherwise specified in this standard.

(A) Install the child restraint system at the center seating position of the standard seat assembly, in accordance with the manufacturer's instructions provided with the system pursuant to S5.6.1, except that the standard lap belt is used and, if provided, a tether strap may be used.

(B) Except for a child harness, a backless child restraint system with a tether strap, and a restraint designed for use by physically handicapped children, install the child restraint system at the center seating position of the standard seat assembly as in S6.1.2.(a)(1)(i)(A), except that no tether strap (or any other supplemental device) is used.

(C) Install the child restraint system using the child restraint anchorage system at the center seating position of the standard seat assembly in accordance with the manufacturer's instructions provided with the system pursuant to S5.6.1. The tether strap, if one is provided, is attached to the tether anchorage.

(D) Install the child restraint system using only the lower anchorages of the child restraint anchorage system as in S6.1.2.(a)(1)(i)(C). No tether strap (or any other supplemental device) is used.

(ii) Belt-positioning seats.

A belt-positioning seat is attached to either outboard seating position of the standard seat assembly in accordance with the manufacturer's instructions provided with the system pursuant to S5.6.1. using only the standard vehicle lap and shoulder belt and no tether (or any other supplemental device).

(iii) In the case of each built-in child restraint system, activate the restraint in the specific vehicle shell or the specific vehicle, in accordance with the manufacturer's instructions provided in accordance with S5.6.2.

(b) Select any dummy specified in S7. for testing systems for use by children of the heights and weights for which the system is recommended in S5.5. The dummy is assembled, clothed and prepared as specified in S7. and S9. and Part 572 of this chapter, as appropriate.

(c) Place the dummy in the child restraint. Position it, and attach the child restraint belts, if appropriate, as specified in S10.

(d) Belt adjustment.

(1) Add-on systems other than belt-positioning seats.

(i) If appropriate, shoulder and pelvic belts that directly restrain the dummy shall be adjusted as follows: Tighten the belts until a 9N force applied (as illustrated in
Figure 5) to the webbing at the top of each dummy shoulder and to the pelvic webbing 50mm on either side of the torso midsagittal plane pulls the webbing 7mm from the dummy.

(ii) All Type I belt systems used to attach an add-on child restraint system to the standard seat assembly, and any provided additional anchorage belt (tether), are tightened to a tension of not less than 53.5N and not more than 67N, as measured by a load cell used on the webbing portion of the belt.

(iii) When attaching a child restraint system to the tether anchorage and the child restraint anchorage system on the standard seat assembly, tighten all belt systems used to attach the restraint to the standard seat assembly to a tension of not less than 53.5 N and not more than 67 N, as measured by a load cell or other suitable means used on the webbing portion of the belt.

(2) Add-on belt-positioning seats.

(i) The lap portion of Type II belt systems used to attach the child restraint to the standard seat assembly is tightened to a tension of not less than 53.5N and not more than 67N, as measured by a load cell used on the webbing portion of the belt.

(ii) The shoulder portion of Type II belt systems used to restrain the dummy is tightened to a tension of not less than 9N and not more than 18N, as measured by a load cell used on the webbing portion of the belt.

(3) Built-in child restraint systems.

(i) The lap portion of Type II belt systems used to secure a dummy to the built-in child restraint system is tightened to a tension of not less than 53.5N and not more than 67N, as measured by a load cell used on the webbing portion of the belt.

(ii) The shoulder portion of Type II belt systems used to secure a child is tightened to a tension of not less than 9N and not more than 18N, as measured by a load cell used on the webbing portion of the belt.

(iii) If provided, and if appropriate to attach the child restraint belts under S10., shoulder (other than the shoulder portion of a Type II vehicle belt system) and pelvic belts that directly restrain the dummy shall be adjusted as follows: Tighten the belts until a 9N force applied (as illustrated in Figure 5) to the webbing at the top of each dummy shoulder and to the pelvic webbing 50mm on either side of the torso midsagittal plane pulls the webbing 7mm from the dummy.

(e) Accelerate the test platform to simulate frontal impact in accordance with Test Configuration I or II, as appropriate.

(f) Determine conformance with the requirements in S5.1.

S6.2. Buckle release test procedure.

The belt assembly buckles used in any child restraint system shall be tested in accordance with S6.2.1. through S6.2.4. inclusive.

S6.2.1. Before conducting the testing specified in S6.1., place the loaded buckle on a hard, flat, horizontal surface. Each belt end of the buckle shall be pre-loaded in the following manner. The anchor end of the buckle shall be loaded with a 9N force in the direction away from the buckle. In the case of buckles designed to secure a single latch plate, the belt latch plate end of the buckle shall be pre-loaded with a 9N force in the direction away from the buckle. In the case of buckles designed to secure two or more latch plates, the belt latch plate ends of the buckle shall be loaded equally so that the total load is 9N, in the direction away from the buckle. For pushbutton-release buckles, the release force shall be applied by a conical surface (cone angle not exceeding 90 degrees). For pushbutton-release mechanisms with a fixed edge (referred to in Figure 7 as "hinged button"), the release force shall be applied at the centerline of the button, 3mm away from the movable edge directly opposite the fixed edge, and in the direction that produces maximum releasing effect. For pushbutton-release mechanisms with no fixed edge (referred to in Figure 7 as "floating button"), the release force shall be applied at
the center of the release mechanism in the direction that produces the maximum releasing effect. For all other buckle release mechanisms, the force shall be applied on the centerline of the buckle lever or finger tab in the direction that produces the maximum releasing effect. Measure the force required to release the buckle. Figure 7 illustrates the loading for the different buckles and the point where the release force should be applied, and Figure 8 illustrates the conical surface used to apply the release force to pushbutton-release buckles.

S6.2.2. After completion of the testing specified in S6.1. and before the buckle is unlatched, tie a self-adjusting sling to each wrist and ankle of the test dummy in the manner illustrated in Figure 4, without disturbing the belted dummy and the child restraint system.

S6.2.3. Pull the sling tied to the dummy restrained in the child restraint system and apply a force whose magnitude is: 50N for a system tested with a newborn dummy; 90N for a system tested with a 9-month-old dummy; 200N for a system tested with a 3-year-old dummy; or 270N for a system tested with a 6-year-old dummy. The force is applied in the manner illustrated in Figure 4 and as follows:
(a) Add-on Child Restraints.
   For an add-on child restraint other than a car bed, apply the specified force by pulling the sling horizontally and parallel to the SORL of the standard seat assembly. For a car bed, apply the force by pulling the sling vertically.
(b) Built-in Child Restraints.
   For a built-in child restraint other than a car bed, apply the force by pulling the sling parallel to the longitudinal center line of the specific vehicle shell or the specific vehicle. In the case of a car bed, apply the force by pulling the sling vertically.

S6.2.4. While applying the force specified in S6.2.3., and using the device shown in Figure 8 for pushbutton-release buckles, apply the release force in the manner and location specified in S6.2.1., for that type of buckle. Measure the force required to release the buckle.

S6.3. Head impact protection-energy absorbing material test procedure.


S7. Test dummies. (Subparts referenced in this section are of part 572 of this chapter.)

S7.1. Dummy selection.
(a) A child restraint that is recommended by its manufacturer in accordance with S5.5. for use either by children in a specified mass range that includes any children having a mass of not greater than 5kg, or by children in a specified height range that includes any children whose height is not greater than 650mm, is tested with a new-born test dummy conforming to part 572 subpart K.
(b) A child restraint that is recommended by its manufacturer in accordance with S5.5. for use either by children in a specified mass range that includes any children having a mass greater than 5 but not greater than 10kg, or by children in a specified height range that includes any children whose height is greater than 650mm but not greater than 850mm, is tested with a newborn test dummy conforming to part 572 subpart K, and a 9-month-old test dummy conforming to
(c) A child restraint that is recommended by its manufacturer in accordance with S5.5. for use either by children in a specified mass range that includes any children having a mass greater than 10kg but not greater than 18kg, or by children in a specified height range that includes any children whose height is greater than 850mm but not greater than 1,100mm, is tested with a 9-month-old test dummy conforming to part 572 subpart J, and a 3-year-old test dummy conforming to part 572 subpart C and S7.2., provided, however, that the 9-month-old dummy is not used to test a booster seat.

(d) A child restraint that is recommended by its manufacturer in accordance with S5.5. for use either by children in a specified mass range that includes any children having a mass greater than 18kg, or by children in a specified height range that includes any children whose height is greater than 1,100mm, is tested with a 6-year-old child dummy conforming to part 572 subpart I.

(e) A child restraint that meets the criteria in two or more of the preceding paragraphs in S7.1. is tested with each of the test dummies specified in those paragraphs.

S7.2. Three-year-old dummy head.

Effective September 1, 1993, this dummy is assembled with the head assembly specified in section 572.16(a)(1) of this chapter.

S8. Requirements, test conditions, and procedures for child restraint systems manufactured for use in aircraft.

Each child restraint system manufactured for use in both motor vehicles and aircraft must comply with all of the applicable requirements specified in Section S5. and with the additional requirements specified in S8.1. and S8.2.

S8.1. Installation instructions.

Each child restraint system manufactured for use in aircraft shall be accompanied by printed instructions in English that provide a step-by-step procedure, including diagrams, for installing the system in aircraft passenger seats, securing a child in the system when it is installed in aircraft, and adjusting the system to fit the child.

S8.2. Inversion test.

When tested in accordance with S8.2.1. through S8.2.5., each child restraint system manufactured for use in aircraft shall meet the requirements of S8.2.1. through S8.2.6. The manufacturer may, at its option, use any seat which is a representative aircraft passenger seat within the meaning of S4. Each system shall meet the requirements at each of the restraint's seat back angle adjustment positions and restraint belt routing positions, when the restraint is oriented in the direction recommended by the manufacturer (e.g., facing forward, rearward or laterally) pursuant to S8.1., and tested with the test dummy specified in S7. If the manufacturer recommendations do not include instructions for orienting the restraint in aircraft when the restraint seat back angle is adjusted to any position, position the restraint on the aircraft seat by following the instructions (provided in accordance with S5.6.) for orienting the restraint in motor vehicles.

S8.2.1. A standard seat assembly consisting of a representative aircraft passenger seat shall be positioned and adjusted so that its horizontal and vertical orientation and its seat back angle are the same as shown in Figure 6.

S8.2.2. The child restraint system shall be attached to the representative aircraft passenger seat
using, at the manufacturer's option, any Federal Aviation Administration approved aircraft safety belt, according to the restraint manufacturer's instructions for attaching the restraint to an aircraft seat. No supplementary anchorage belts or tether straps may be attached; however, Federal Aviation Administration approved safety belt extensions may be used.

S8.2.3. In accordance with S10., place in the child restraint any dummy specified in S7. for testing systems for use by children of the heights and weights for which the system is recommended in accordance with S5.5. and S8.1.

S8.2.4. If provided, shoulder and pelvic belts that directly restrain the dummy shall be adjusted in accordance with S6.1.2.

S8.2.5. The combination of representative aircraft passenger seat, child restraint, and test dummy shall be rotated forward around a horizontal axis which is contained in the median transverse vertical plane of the seating surface portion of the aircraft seat and is located 25mm below the bottom of the seat frame, at a speed of 35 to 45 degrees per second, to an angle of 180 degrees. The rotation shall be stopped when it reaches that angle and the seat shall be held in this position for three seconds. The child restraint shall not fall out of the aircraft safety belt nor shall the test dummy fall out of the child restraint at any time during the rotation or the three second period. The specified rate of rotation shall be attained in not less than one half second and not more than one second, and the rotating combination shall be brought to a stop in not less than one half second and not more than one second.

S8.2.6. Repeat the procedures set forth in S8.2.1. through S8.2.4. The combination of the representative aircraft passenger seat, child restraint, and test dummy shall be rotated sideways around a horizontal axis which is contained in the median longitudinal vertical plane of the seating surface portion of the aircraft seat and is located 25mm below the bottom of the seat frame, at a speed of 35 to 45 degrees per second, to an angle of 180 degrees. The rotation shall be stopped when it reaches that angle and the seat shall be held in this position for three seconds. The child restraint shall not fall out of the aircraft safety belt nor shall the test dummy fall out of the child restraint at any time during the rotation or the three second period. The specified rate of rotation shall be attained in not less than one half second and not more than one second, and the rotating combination shall be brought to a stop in not less than one half second and not more than one second.


S9.1. Type of clothing.

(a) **Newborn dummy.**
When used in testing under this standard, the dummy is unclothed.

(b) **Nine-month-old dummy.**
When used in testing under this standard, the dummy is clothed in terry cloth polyester and cotton size 1 long sleeve shirt and size 1 long pants, with a total mass of 0.136kg.

(c) **Three-year-old and six-year-old dummies.**
When used in testing under this standard, the dummy is clothed in thermal knit, waffle-weave polyester and cotton underwear or equivalent, a size 4 long-sleeved shirt (3-year-old dummy) or a size 5 long-sleeved shirt (6-year-old dummy) having a mass of 0.090kg, a size 4 pair of long pants having a mass of 0.090kg, and cut off just far enough above the knee to allow the knee target to be visible, and size 7M sneakers (3-year-old dummy) or size 12 1/2 M sneakers (6-year-old dummy) with rubber toe caps, uppers of dacron and cotton or nylon and a total mass of 0.453kg.
S9.2. Preparing clothing.

Clothing other than the shoes is machined-washed in 71 degrees C to 82 degrees C and machine-dried at 49 degrees C to 60 degrees C for 30 minutes.

S9.3. Preparing dummies.

Before being used in testing under this standard, dummies must be conditioned at any ambient temperature from 19 degrees C to 25.5 degrees C and at any relative humidity from 10% to 70% for at least 4 hours.

S10. Positioning the dummy and attaching the system belts.


Place the test dummy in the car bed in the supine position with its midsagittal plane perpendicular to the center SORL of the standard seat assembly, in the case of an add-on car bed, or perpendicular to the longitudinal axis of the specific vehicle shell or the specific vehicle, in the case of a built-in car bed. Position the dummy within the car bed in accordance with the instructions for child positioning that the bed manufacturer provided with the bed in accordance with S5.6.

S10.2. Restraints other than car beds.

S10.2.1. Newborn dummy and nine-month-old dummy.

Position the test dummy according to the instructions for child positioning that the manufacturer provided with the system under S5.6.1. or S5.6.2., while conforming to the following:

(a) Prior to placing the 9-month-old test dummy in the child restraint system, place the dummy in the supine position on a horizontal surface. While placing a hand on the center of the torso to prevent movement of the dummy torso, rotate the dummy legs upward by lifting the feet 90 degrees. Slowly release the legs but do not return them to the flat surface.

(b) (1) When testing forward-facing child restraint systems, holding the 9-month-old test dummy torso upright until it contacts the system's design seating surface, place the 9-month-old test dummy in the seated position within the system with the midsagittal plane of the dummy head-

(i) Coincident with the center SORL of the standard seating assembly, in the case of the add-on child restraint system, or

(ii) Vertical and parallel to the longitudinal center line of the specific vehicle shell or the specific vehicle, in the case of a built-in child restraint system.

(2) When testing rear-facing child restraint systems, place the newborn or 9-month-old dummy in the child restraint system so that the back of the dummy torso contacts the back support surface of the system. For a child restraint system which is equipped with a fixed or movable surface described in S5.2.2.2. which is being tested under the conditions of test configuration II, do not attach any of the child restraint belts unless they are an integral part of the fixed or movable surface. For all other child restraint systems and for a child restraint system with a fixed or movable surface which is being tested under the conditions of test configuration I, attach all appropriate child restraint belts and tighten them as specified in S6.1.2. Attach all appropriate vehicle belts and tighten them as specified in S6.1.2. Position each movable surface in accordance with the instructions that the manufacturer provided under S5.6.1. or S5.6.2. If the dummy's head does not remain in the proper position, it shall be taped against the front of the seat back.
surface of the system by means of a single thickness of 6mm-wide paper masking
tape placed across the center of the dummy's face.

(c)

(1)

(i) When testing forward-facing child restraint systems, extend the arms of the 9-
month-old test dummy as far as possible in the upward vertical direction. Extend
the legs of the 9-month-old dummy as far as possible in the forward horizontal
direction, with the dummy feet perpendicular to the centerline of the lower legs.
Using a flat square surface with an area of 2,580mm², apply a force of 178N,
perpendicular to:
(A) The plane of the back of the standard seat assembly, in the case of an add-on
system, or
(B) The back of the vehicle seat in the specific vehicle shell or the specific vehicle,
in the case of a built-in system, first against the dummy crotch and then at the
dummy thorax in the midsagittal plane of the dummy. For a child restraint system
with a fixed or movable surface described in S5.2.2.2., which is being tested
under the conditions of test configuration II, do not attach any of the child
restraint belts unless they are an integral part of the fixed or movable surface. For
all other child restraint systems and for a child restraint system with a fixed or
movable surface which is being tested under the conditions of test configuration
I, attach all appropriate child restraint belts and tighten them as specified in
S6.1.2. Attach all appropriate vehicle belts and tighten them as specified in
S6.1.2. Position each movable surface in accordance with the instructions that the
manufacturer provided under S5.6.1. or S5.6.2.

(ii) After the steps specified in paragraph (c)(1)(i) of this section, rotate each dummy
limb downwards in the plane parallel to the dummy's midsagittal plane until the
limb contacts a surface of the child restraint system or the standard seat assembly,
in the case of an add-on system, or the specific vehicle shell or specific vehicle,
in the case of a built-in system, as appropriate. Position the limbs, if necessary,
so that limb placement does not inhibit torso or head movement in tests conducted
under S6.

(2) When testing rear-facing child restraints, position the newborn and 9- month-old
dummy arms vertically upwards and then rotate each arm downward toward the
dummy's lower body until the arm contacts a surface of the child restraint system
or the standard seat assembly in the case of an add-on child restraint system, or
the specific vehicle shell or the specific vehicle, in the case of a built-in child
restraint system. Ensure that no arm is restrained from movement in other than
the downward direction, by any part of the system or the belts used to anchor the
system to the standard seat assembly, the specific shell, or the specific vehicle.

S10.2.2. Three-year-old and six-year-old test dummy.

Position the test dummy according to the instructions for child positioning that the
restraint manufacturer provided with the system in accordance with S5.6.1. or S5.6.2.,
while conforming to the following:

(a) Holding the test dummy torso upright until it contacts the system's design seating
surface, place the test dummy in the seated position within the system with the
midsagittal plane of the test dummy head-

(1) Coincident with the center SORL of the standard seating assembly, in the case of
the add-on child restraint system, or
(2) Vertical and parallel to the longitudinal center line of the specific vehicle, in the
case of a built-in child restraint system.

(b) Extend the arms of the test dummy as far as possible in the upward vertical
direction. Extend the legs of the dummy as far as possible in the forward
horizontal direction, with the dummy feet perpendicular to the center line of the
lower legs.
(c) Using a flat square surface with an area of 2,580mm$^2$, apply a force of 178N, perpendicular to:

(1) The plane of the back of the standard seat assembly, in the case of an add-on system, or

(2) The back of the vehicle seat in the specific vehicle shell or the specific vehicle, in the case of a built-in system, first against the dummy crotch and then at the dummy thorax in the midsagittal plane of the dummy. For a child restraint system with a fixed or movable surface described in S5.2.2.2., which is being tested under the conditions of test configuration II, do not attach any of the child restraint belts unless they are an integral part of the fixed or movable surface. For all other child restraint systems and for a child restraint system with a fixed or movable surface which is being tested under the conditions of test configuration I, attach all appropriate child restraint belts and tighten them as specified in S6.1.2. Position each movable surface in accordance with the instructions that the manufacturer provided under S5.6.1. or S5.6.2.

(d) After the steps specified in paragraph (c) of this section, rotate each dummy limb downwards in the plane parallel to the dummy's midsagittal plane until the limb contacts a surface of the child restraint system or the standard seat assembly, in the case of an add-on system, or the specific vehicle shell or specific vehicle, in the case of a built-in system, as appropriate. Position the limbs, if necessary, so that limb placement does not inhibit torso or head movement in tests conducted under S6.

![Diagram of Seat Orientation Reference Line and Belt Anchorage Point Locations on the Standard Seat Assembly](image)
NOTES:

(1i) Universal lower anchor bars 6mm diameter and 25mm length
(1ii) Transverse horizontal distance between the center of the universal anchor bars and the vertical plane lower containing SORL at the center of the seat assembly is 140mm.

SEAT ORIENTATION REFERENCE LINE AND LOCATION OF UNIVERSAL CHILD RESTRAINT ANCHORAGE SYSTEM ON THE STANDARD SEAT ASSEMBLY

Figure 1A'
NOTES:
(1) Anchor Point on Rear Package Shelf Located 544mm Right or Left of the Center SORL as shown in Fig. 1A
(2) Rear Lap Belt Buckle Located 178mm Right or Left of the Center SORL as shown in Fig. 1A

LOCATION OF BELT ANCHORAGE POINTS AND FORWARD EXCURSION LIMITS ON THE STANDARD SEAT ASSEMBLY

Figure 1B
NOTES:
(1) Anchor Point on Rear Package Shelf Located 544mm Right or Left of the Center SORL as shown in Fig. 1A'
(2) Rear Lap Belt Buckle Located 178mm Right or Left of the Center SORL as shown in Fig. 1A'
(3) Head Excursion Limit is: (i) 720mm with Tether Attached and (ii) 813mm with Tether Unattached
(4) Universal Lower Anchor Bars Located 102mm Forward of Pt Z and 279mm Upward from Floor

LOCATION OF UNIVERSAL CHILD RESTRAINT ANCHORAGE SYSTEM
AND FORWARD EXCURRENCE LIMITS FOR THE STANDARD SEAT ASSEMBLY
Figure 1B'

REAR FACING CHILD RESTRAINT
FORWARD AND UPPER HEAD EXCURSION LIMITS
Figure 1C
ACCELERATION FUNCTION FOR -V = 30MPH.
Figure 2

ACCELERATION FUNCTION FOR -V = 20MPH.
Figure 3
BUCKLE RELEASE TEST
Figure 4
WEBBING TENSION PULL DEVICE

Figure 5

Dimension A - Width of Webbing Plus 1/8 inch
Dimension B - 1/2 of Dimension A

Insert Webbing to Rest Against This Surface

1/16 inch diameter wire

Direction of Pull
"A" represents a 2- to 3-in. thick polyurethane foam pad, 1.5-2.0 lb./ft$^3$ density, over 0.020-in.-thick aluminum pan, and covered by 12- to 14-oz. marine canvas. The sheet aluminum pan is 20 in. wide and supported on each side by a rigid structure. The seat back is a rectangular frame covered with the aluminum sheet and weighing between 14 and 15 lb., with a center of mass 13 to 16 in. above the seat pivot axis. The mass moment of inertia of the seat back about the seat pivot axis is between 195 and 220 oz.-in.-second$^2$. The seat back is free to fold forward about the pivot, but a stop prevents rearward motion. The passenger safety belt anchor points are spaced 21 to 22 in. apart and are located in line with the seat pivot axis.

SIMULATED AIRCRAFT PASSENGER SEAT

Figure 6
PRE-IMPACT BUCKLE RELEASE FORCE TEST SET-UP

Figure 7
RELEASE FORCE APPLICATION DEVICE - PUSH BUTTON RELEASE BUCKLES
Figure 8
FOR YOUR CHILD'S CONTINUED SAFETY

Please take a few moments to promptly fill out and return the attached card.

Although child restraint systems undergo testing and evaluation, it is possible that a child restraint could be recalled.

In case of recall, we can reach you only if we have your name and address, so please send in the card to be on our recall list.

*Please fill this card out and mail it NOW, while you are thinking about it.*

It's already addressed and we've paid the postage.

---

**Consumer:** Just fill in your name and address.

<table>
<thead>
<tr>
<th>Your Name</th>
<th></th>
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<tr>
<td>Your Street</td>
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<td>City</td>
<td>Date</td>
</tr>
<tr>
<td>Zip Code</td>
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</tr>
</tbody>
</table>

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**CHILD RESTRAINT REGISTRATION CARD**

MODEL XXX
SERIAL NUMBER YYYY
MANUFACTURED ZZ-ZZ-1ZZZ

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REGISTRATION FORM FOR CHILD SYSTEMS - PRODUCT IDENTIFICATION NUMBER AND PURCHASER INFORMATION SIDE

Figure 9a
REGISTRATION FORM FOR CHILD SYSTEMS - ADDRESS SIDE

Figure 9b

Label Outline, Vertical and Horizontal Line Black

Artwork Black With White Background

Circle and Line Red With White Background

Bottom Text Black With White Background

Top Text and Symbol Black With Yellow Background

IMPORTANT

In case of a recall, we can reach you only if we have your name and address. You MUST send in the attached card to be on our recall list. We've already paid the postage.
Do it today.

MANUFACTURER
POST OFFICE BOX 0000
ANYTOWN, ST 12345-6789

WARNING

DO NOT place rear-facing child seat on front seat with air bag.
DEATH OR SERIOUS INJURY can occur.
The back seat is the safest place for children 12 and under.
NOTES:
(1) Dimensions in mm, except where otherwise indicated
(2) Drawing not to scale

INTERFACE PROFILE OF TETHER HOOK
Figure 11