FINAL REPORT NUMBER 225-MGA-04-007

SAFETY COMPLIANCE TESTING FOR FMVSS 225 "Child Restraint Anchorage Systems"

DAIMLER CHRYSLER CORPORATION 2004 DODGE DURANGO NHTSA No. C40303

MGA RESEARCH CORPORATION
446 Executive Drive
Troy, Michigan 48083



Test Date: August 23, 2004 Report Date: September 23, 2004

FINAL REPORT

PREPARED FOR:

U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
400 SEVENTH STREET, SW
ROOM 6111 (NVS-221)
WASHINGTON, D.C. 20590

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Tether Anchorage Static Loading and Displacement (Data Sheet 5)

1.0 PURPOSE AND PROCEDURE

PURPOSE

The child restraint anchorage testing results presented in this report are part of the Federal Motor Vehicle Safety Standard (FMVSS) No. 225 compliance test program conducted for the National Highway Traffic Safety Administration (NHTSA) by MGA Research Corporation (MGA) under Contract No. DTNH22-02-D-11043. The purpose of the testing was to determine if the subject vehicle, a 2004 Dodge Durango, NHTSA No. C40303 meets the performance requirements of FMVSS No. 225, "Child Restraint Anchorage Systems."

PROCEDURE

This testing was conducted in accordance with NHTSA's Office of Vehicle Safety Compliance (OVSC) Laboratory Test Procedures, TP-225T (5/3/01) and TP-225L (6/11/01), and MGA's Laboratory Test Procedure, MGATP225GOV (3/20/03).

The front occupant compartment consisted of two (2) adjustable outboard bucket seats and the rear occupant compartment consisted of a 2nd row three-passenger 40/20/40 seat and a 3nd row two-passenger bench seat. Each 2nd row outboard seating position was equipped a child restraint anchorage system (one tether and two lower anchors). The 2nd row center occupant position was equipped with a tether anchorage. The center-to-center spacing between the 2nd row outboard lower anchorages was approximately 822 mm. Each 2nd row outboard seating position was tested with the SFADII fixture, and the 2nd row center seating position was tested with the SFADI fixture.

2.0 COMPLIANCE TEST AND DATA SUMMARY

TEST SUMMARY

The testing was conducted at MGA, Troy, Michigan on August 23, 2004.

Based on the test results, the 2004 Dodge Durango appears to comply with the performance requirements of FMVSS No. 225 for these tests.

The SFADII at the 2nd row left occupant seating position sustained a maximum force of 11,313 N and held the required load for 2 seconds. The total displacement from point "X" on the SFADII for the 2nd row left occupant seating position was 61 mm. The SFADII at the 2nd row right occupant seating position sustained a maximum force of 9,984 N and held the required load for 1 second. The SFADI at the 2nd row center seating position sustained a maximum force of 10,021 N and held the required load for 2 seconds.

DATA SUMMARY

Strength and displacement summary data are provided below, and data for the configuration and the location of each child restraint anchorage system are provided in Section 5.0. Photographs are found in Section 6.0 and test plots are found in Section 7.0.

Table 1. Summary Data for Strength and Displacement

MGA Test #	Fixture Type	Test Configuration	Scating Position	Max. Load (N)	Displacement (mm)
SB4648	SFAD II	Lower Only	2nd Row Left	11,313	61
		Lower and Top	2nd Row Right	9,984	N/A
SB4649	SFADI	Тор	2 nd Row Center	10,021	N/A

N/A indicates that the displacement criteria does not apply to this test.

3.0 TEST VEHICLE INFORMATION

Table 2. General Test and Vehicle Parameter Data

VEH. MOD YR/MAKE/MODEL/BODY	2004 Dodge Durango
VEH. NHTSA NO.	C40303
VIN	1D4HD48N04F114309
COLOR	Black
VEH. BUILD DATE	10/03
TEST DATE	August 23, 2004
TEST LABORATORY	MGA Research Corporation
OBSERVERS	Melanie Schick, Brad Reaume, Kenney Godfrey

GENERAL INFORMATION:

DATA FROM VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured By: DaimlerChrysler Corporation

Date of Manufacture: 10/03; VIN: 1D4HD48N04F114309

GVWR: 2994 kg; GAWR FRONT: 1407 kg

GAWR REAR: 1770 kg

Safety Compliance Testing For FMVSS 225 "Child Restraint Anchorage Systems"

DATA FROM TIRE PLACARD:

Tire Pressure with Maximum Capacity Vehicle Load:

FRONT: 227 kPa

REAR: <u>227 kPa</u>

Recommended Tire Size: P245/70R17

Recommended Cold Tire Pressure:

FRONT: 227 kPa

REAR: 227 kPa

Size of Tire on Test Vehicle: P245/70R17

Type of Spare Tire: Standard: P245/65R17

VEHICLE CAPACITY DATA:

Type of Front Seats:

Bench ; Bucket X; Split Bench

Number of Occupants:

Front 2;

Middle 3;

Rear 2;

TOTAL 7

4.0 TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

MGA Research Corporation 446 Executive Drive Troy, Michigan 48483					
Test Equipment Used for Testing Calibration Due Date					
MGA Hydraulic Test Frame	N/A				
Two (2) Load Cell 3,000 lb Capability	S/N 251 (10/26/04), S/N 256 (10/26/04)				
Two (2) String Potentiometer	Calibrated at each use (S/N 21809, 20765)				
Hydraulic Pump	N/A				
MGA CRF Fixture	N/A				
MGA SFAD2	N/A				
MGA 2-Dimensional Template	N/A				
Linear Scale	S/N 356 (06/17/05)				
MGA Data Acquisition System	N/A				
One (1) Hydraulic Cylinder	N/A				
Digital Calipers	S/N MGA00053 (9/2/04)				
Force Gauge	S/N MGA00058 (10/30/04)				
Inclinometer (Digital)	S/N MGA00072 (1/29/05)				

5.0 DATA

Table 3. Child Restraint Tether Anchorage Configuration (Data Sheet 1)

Seatir Positi	-	Permit the attachment of a tether hook	Accessible without the need for any tool other than a screwdriver or coin	Ready for use without the need for any tools	Sealed to prevent the entry of exhaust fumes
Front B	tow	N/A	N/A	N/A	' N/A
	LH	Yes	Yes	Yes	Yes
Second Row	Ctr.	Yes	Yes	Yes	Yes
KOW	RH	Yes	Yes	Yes	Yes
Third LH		37/4	N/A	N/A	N/A
Row	RH	N/A	N/A	N/A	IV/A

Note: AS DETERMINED USING THE PROCEDURES SPECIFIED IN TP-225L & 225T.

REMARKS: NONE.

Table 4. Child Restraint Lower Anchorage Configuration (Data Sheet 2)

OBSERVED LOWER ANCHORAGE CONFIGURATION	1		SEAT POS	ITION	
_		FRONT	SECOND ROW		THIRD
·		ROW	I/B	O/B	ROW
Above anchorage, permanently marked with a circle not less than 13 mm in Dia.; and whose color contrasts with its background; and its	LH]	No N/A		•
center is not less than 50 mm and not more than 75 mm above the	Ctr	N/A			N/A
bar, and in the vertical longitudinal plane that passes through the center of the bar.		No		io	
Each of the bars is visible, without the compression of the seat cushion or seat back, when the bar is viewed, in a vertical	LH				
longitudinal plane passing through the center of the ber, along a line	Сtг	N/A	Y	es	N/A
marking an upward 30 degree angle with a horizontal plane.	RH				
Diameter of the bar (mm)	LH		5.97	5.99	
	Ctr	N/A	N/A		N/A
	RH		5.98	6.00	
Inspect if the bars are straight, horizontal and transverse	LH] !	¥	'ea	
	Ctr	N/A	N/A		N/A
	RH		Y	'es	
Optional Marking: At least one anchorage bar (when deployed for use, if storable anchorages), one guidance fixture, or one seat	LH		n/a n/a		
marking is visible.	Ctr_	N/A			N/A
	RH				
Optional Marking: If guidance fixtures are used, the fixture(s) must be installed.	LH				
PO INSUELECT.	Ctr	N/A	N/A		N/A
	RH				
Measure the distance between Point "Z" of the CRF and the center	the CRF and the center LH 42		12		
of the anchorage bar (mm)		N/A	N	/A	N/A
	RH		41		
Measure the distance between the SRP to the center of the	LH		····-	77	
anchorage bar (mm)	Ctr	N/A N/A			N/A
	RH		183		

Table 4. Child Restraint Lower Anchorage Configuration (Data Sheet 2) (continued)

OBSERVED LOWER ANCHORAGE CONFIGURATION		SE	AT POSIT	TON	
·		FRONT ROW	SBCON I/B	D ROW C/B	THIRD ROW
Inspect if the centroidal longitudinal axes are collinear within 5	LH		Yes		
degrees	Ctr	N/A	N/A		N/A
	RH		Yes		
Inspect if the inside surface of the bar that is straight and horizontal			33	33	
section of the bers, and determine they are not less than 25 mm, but not more than 40 mm in length (mm).	Ċŧ	N/A	N/A		N/A
	RH		33	33	
Inspect if the bars can be connected to, over their entire inside length	LH	Yes		Ça	
by the connectors of child restraint system.	Ctr	N/A	N/A		N/A
	RH	Yea			
Measure the distance between the center of the length of one bar to	LH		280		N/A
the center of the length of the other bar. The requirement is 280 mm \pm 1 mm (mm).	Ctr	N/A	N/A		
	RH		280		
Inspect if the bars are an integral and permanent part of the vehicle.	LH		Yes		N/A
	Сtг	N/A	N/A		
			Yes		
Inspect if the bars are rigidly attached to the vehicle. If feasible,	LH		Y	'es	
hold the bar finnly with two fingers and gently pull.		N/A	N/A N/A		N/A
			Yes		<u> </u>

PITCH, YAW, & ROLL INFORMATION

SEAT POSITION	PITCH (deg)	YAW (dog)	ROLL (deg)
2 nd Row Left	15.0	No Data	0.2
2 ^{ml} Row Center	N/A	N/A	N/A
2 nd Row Right	15.0	No Deta	0.3

N/A indicates that there were no lower anchors in the center seating position.

Note: AS DETERMINED USING THE PROCEDURES SPECIFIED IN TP-225L & 225T.

REMARKS: NONE

Table 5, Tether Location and Dimensional Measurements (Data Sheet 3)

SEAT PO FOR TE		TETHER ANCHORAGE LOCATION Located in the required zone?								
Pront	LH									
Row	Ctr.	N/A								
	RH									
S,	LH	Yes								
Second Row	Ctr.	Yes								
	RН	Yes								
Third	LH	N/A								
Row	RH	N/A								

Note: AS DETERMINED USING THE PROCEDURES SPECIFIED IN TP-225L & 225T.

REMARKS: NONE

Table 6. Tether Anchorage Static Loading and Displacement (Data Sheet 5)

SE	AT		Seat Back, straint Pos	itions	Angle	Initial Location	Ouner Bate	Feree Applied	Max. Lord	Theat Location	Horizontal Displ.	
POST	TION	Sent -	Beat Back	La There # H/R?	(846)	(mm)	(N/sec.)	(9)	60	(=n)	(==)	
	LH		'A N/A	N/A	N/A	N/A						
Pront Row	Ctr.	N/A					N/A	N/A	N/A	N/A	N/A	
	RH											
	LH	Fixed	Fixed	Yes†	9	24	3750	7,950	11,313*	85	61	
Second :	Ctr.	Fixed	Fixed	No	5	63	387	9,950	10,021*	143	81	
NDW	RH	Fixed	Fixed	Yes	9	N/A	387	9,950	9,984*	N/A	N/A	
Third	цн	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	n/a	N/A	
Row	RH	N/A	I WA	IN/A		I WA	11/21	WA	I III	1021		

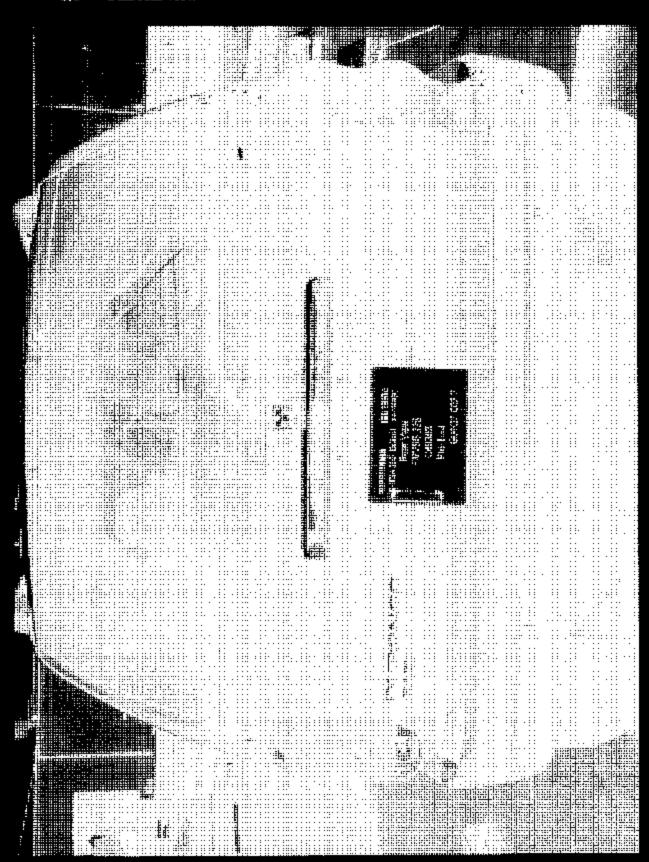
Note: (1) AS DETERMINED USING THE PROCEDURES SPECIFIED IN TP-225L & 225T.

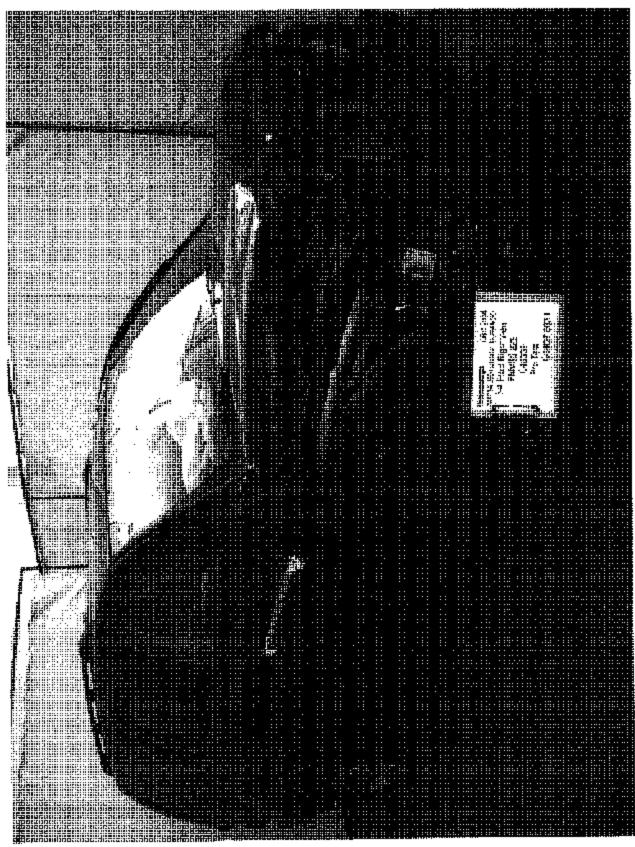
REMARKS: *Applied force exceeded the force specified in the test procedure.

†Upon receipt of the vehicle, no H/R was present.

6.0 PHOTOGRAPHS

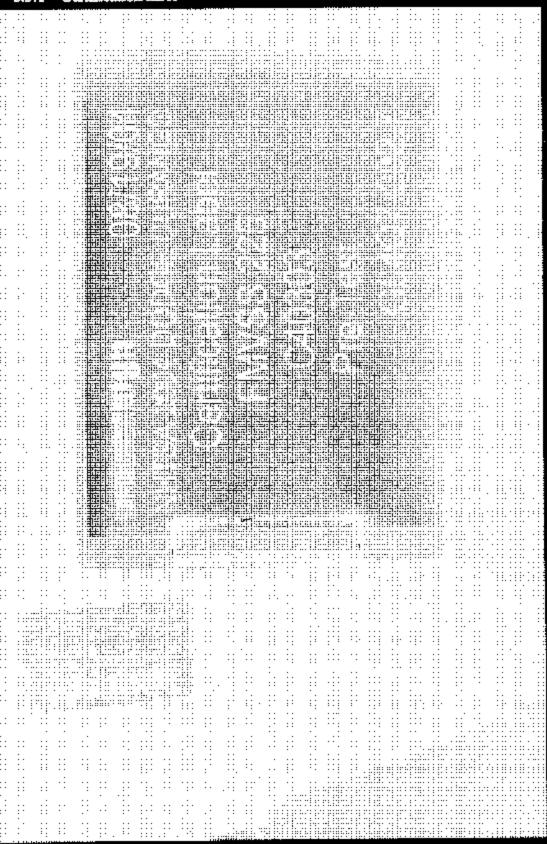
6.1 Full rear view





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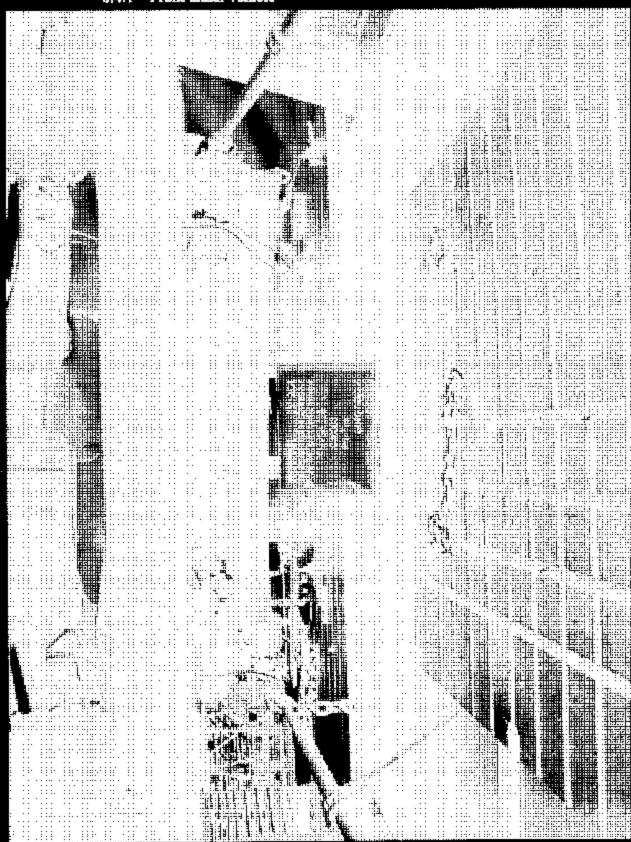
6.3 Test vehicle's certification label 6.3.1 Certification label



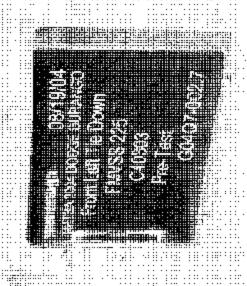
6.3.2 Certification label

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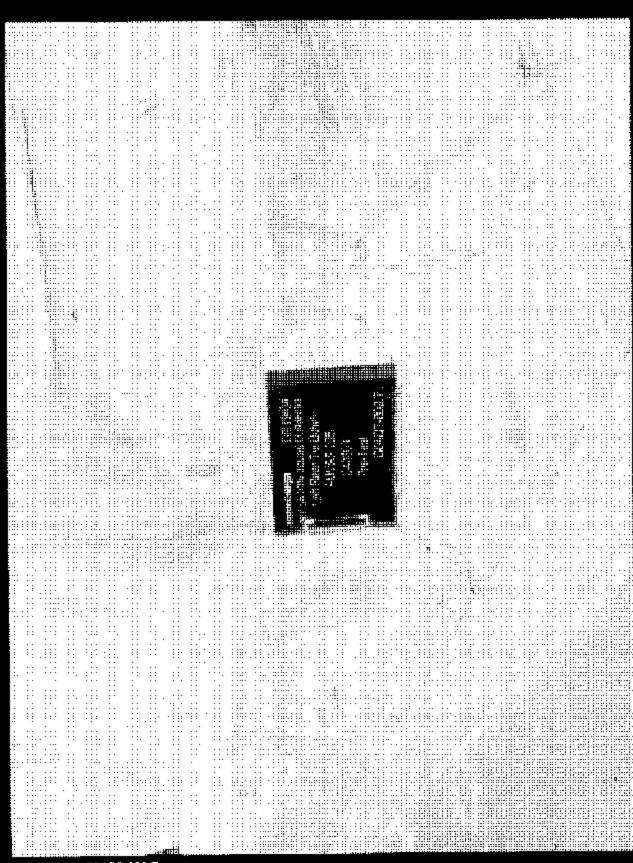
6.4 Vehicle tie down at each tie down location 6.4.1 Front under vehicle



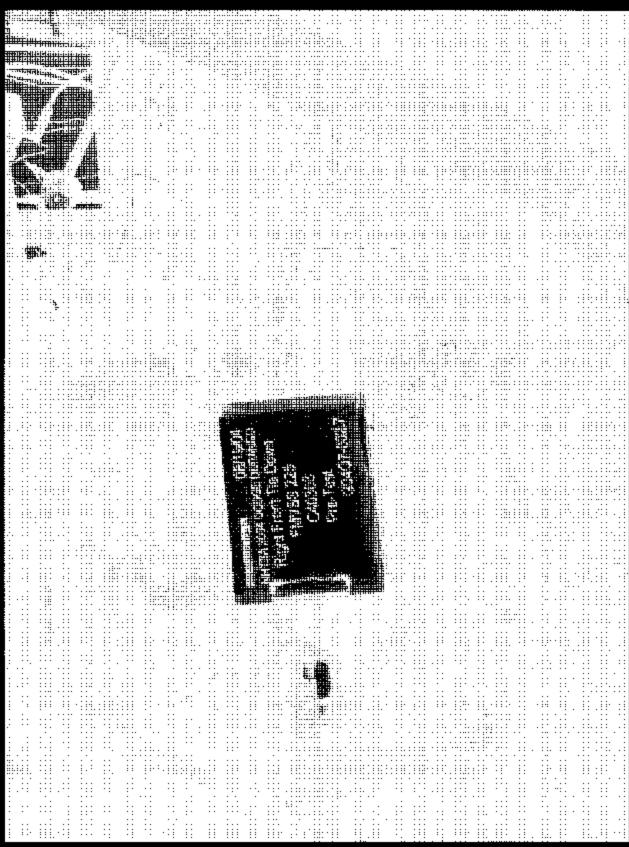
6.4.2 Left front



6.4.3 Left rear



6.4.4 Right front



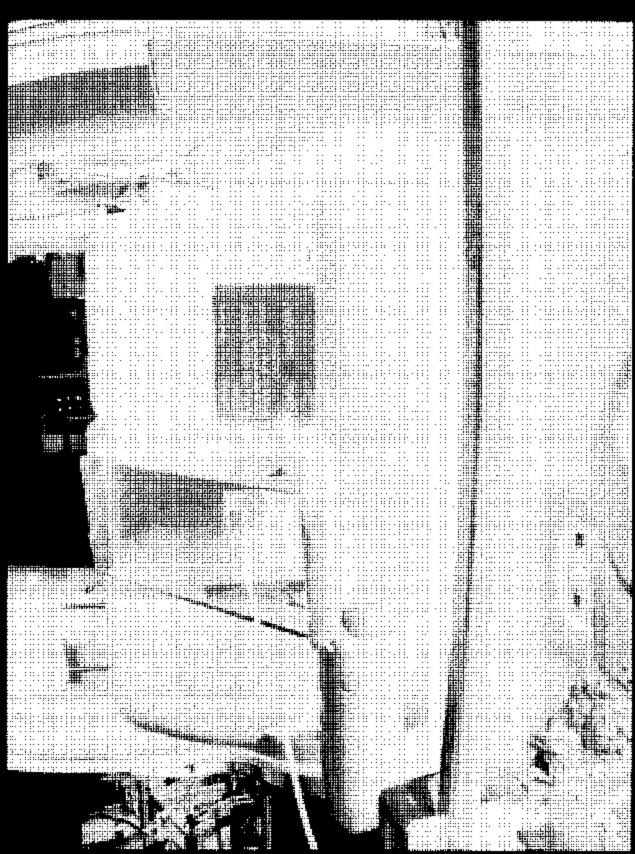
6.4.5 Right rear



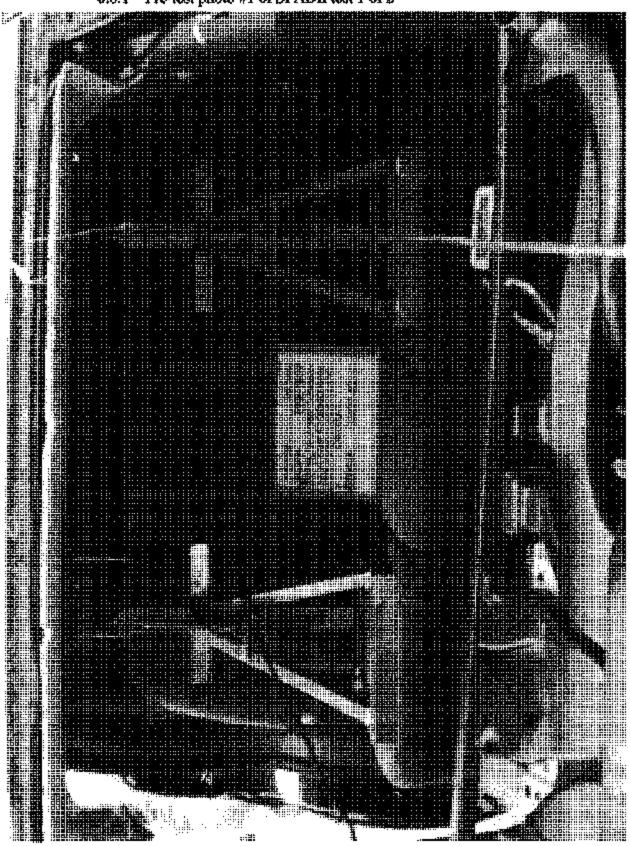
6.5 % Front side view of test vehicle with test apparatus in place 6.5.1 Test 1 of 2



6.5.2 Test 2 of 2



6.6 Pre-test views of each child restraint anchorage system installed in the vehicle 6.6.1 Pre-test photo #1 of SFADII test 1 of 2



MGA File #: G04Q7-002.7

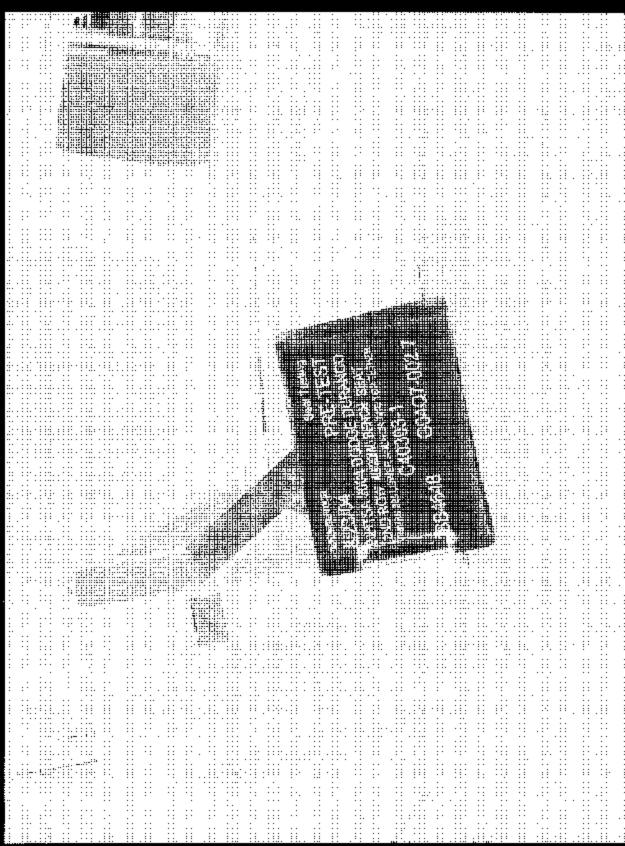
6.6.2 Pre-test photo #2 of SFADII test 1 of 2



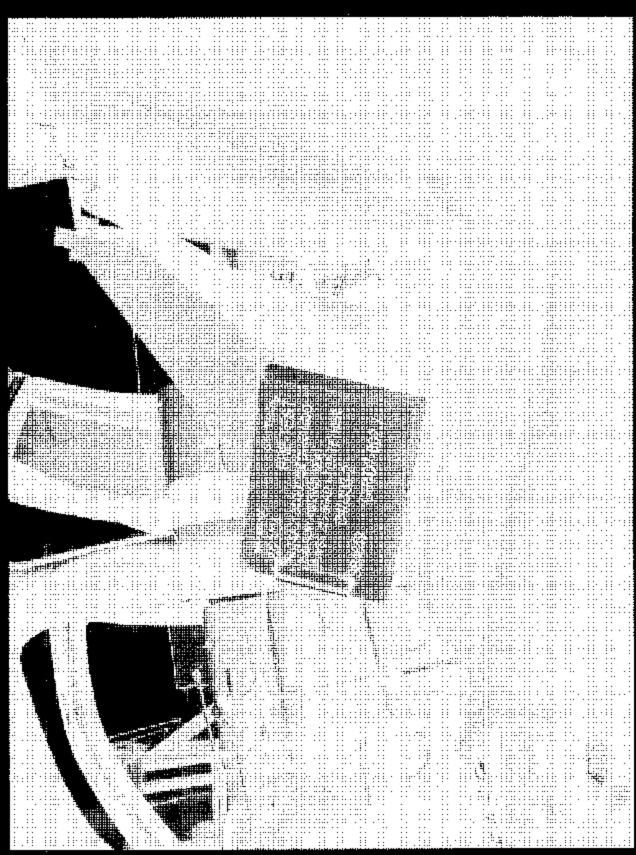
6.6.3 Pre-test photo #3 of SFADII test 1 of 2



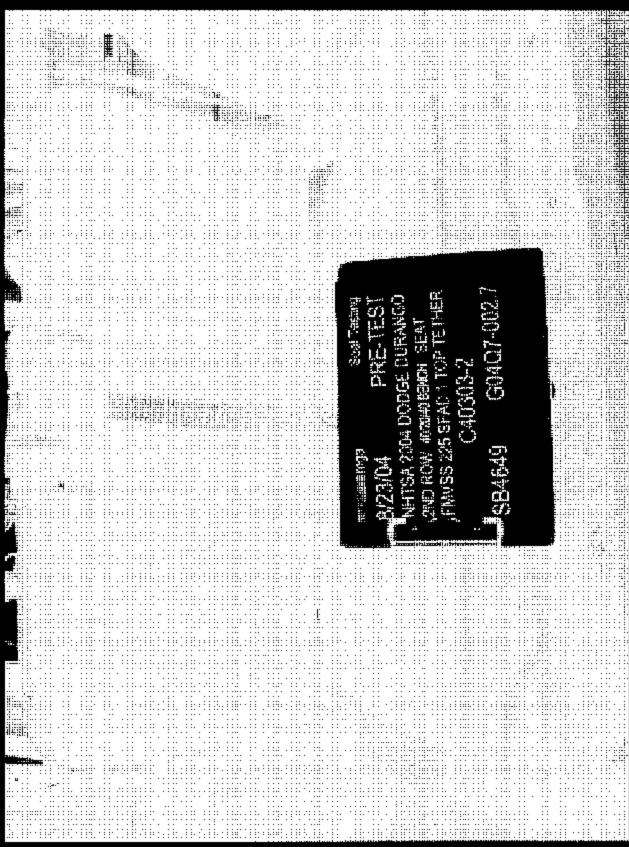
6.6.4 Pre-test photo #4 of SFADII test 1 of 2



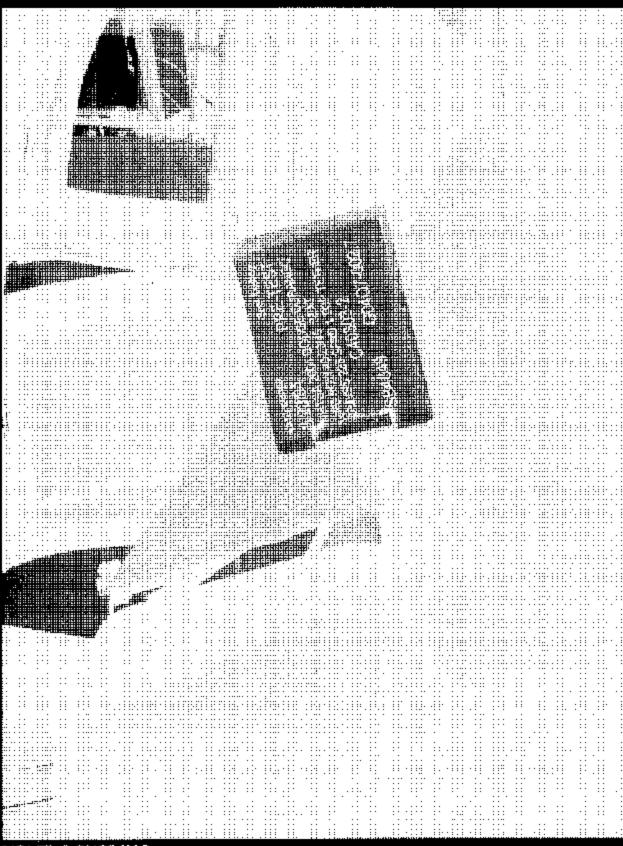
6.6.5 Pre-test photo #5 of SFADI test 2 of 2



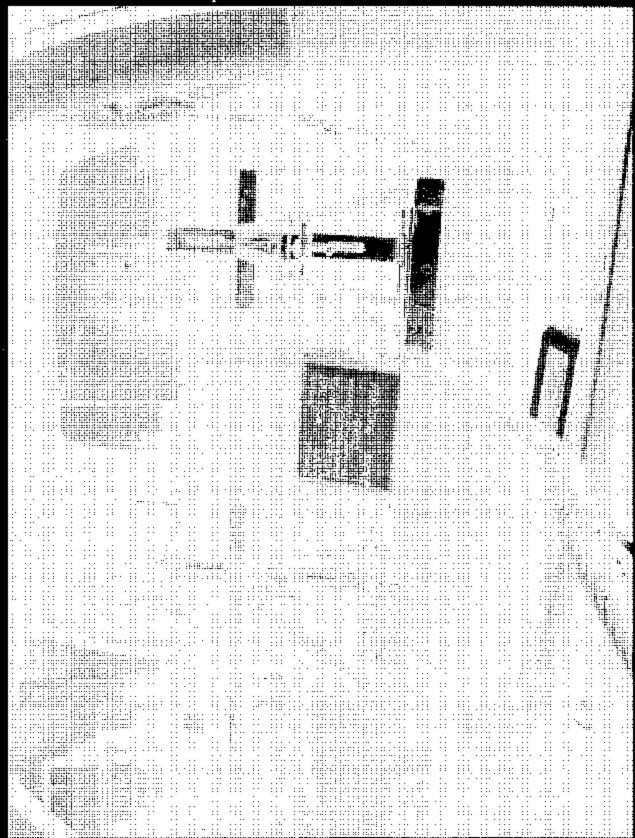
6.6.6 Pre-test photo #6 of SFADI test 2 of 2



6.6.7 Pre-test photo #7 of SFADI test 2 of 2



6.7 Post-test condition of each child restraint anchorage system 6.7.1 Post-test photo #1 of SFADH test 1 of 2



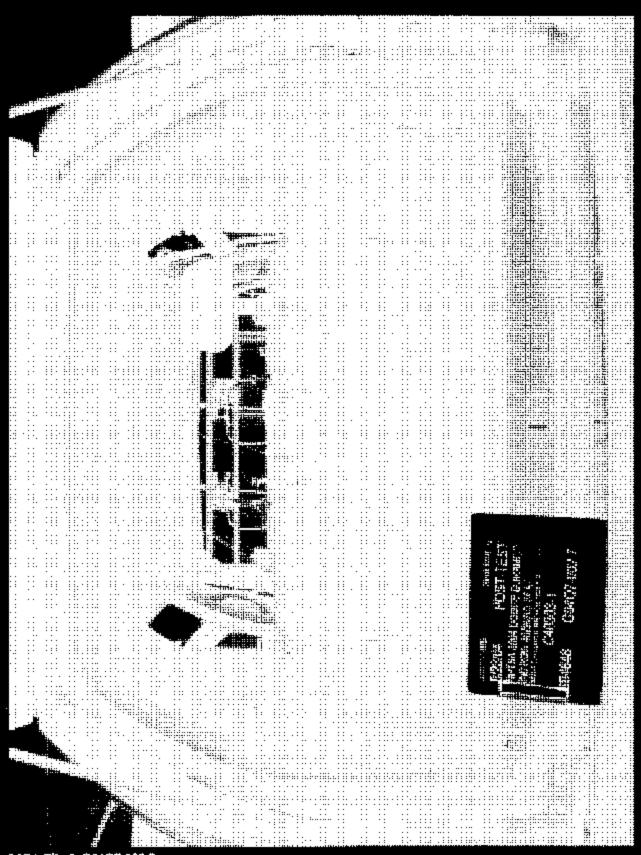
6.7.2 Post-test photo #2 of SFADII test 1 of 2



6.7.3 Post-test photo #3 of SFADII test 1 of 2



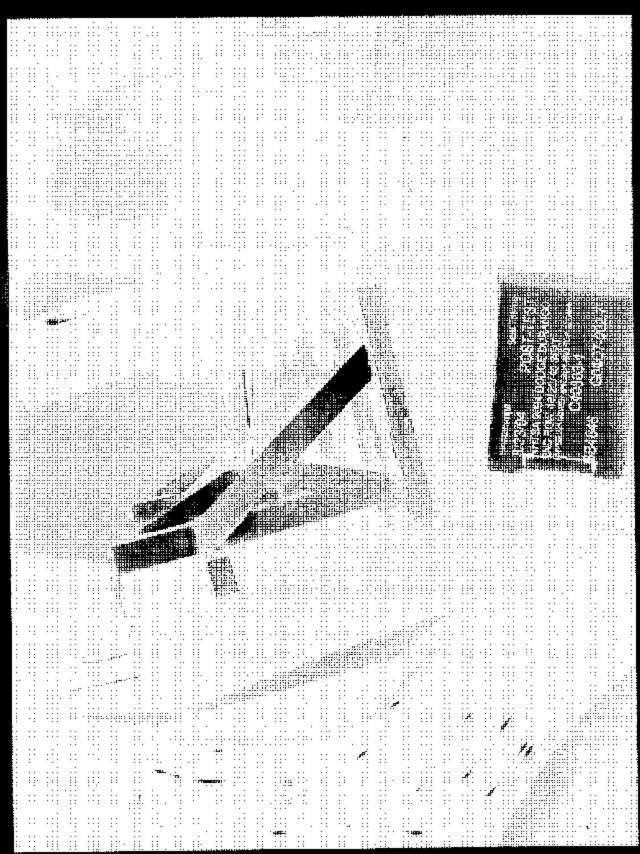
6.7.4 Post-test photo #4 of SFADII test 1 of 2



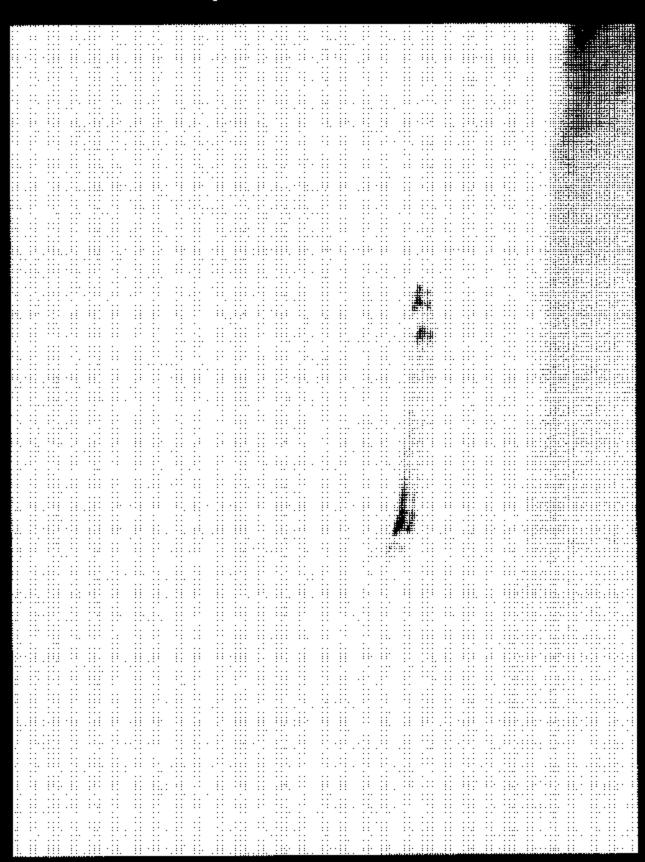
6.7.5 Post-test photo #5 of SFADII test 1 of 2



6.7.6 Post-test photo #6 of SFADII test 1 of 2



6.7.7 Post-tost photo #7 of SFADII test 1 of 2



6.7.8 Post-test photo #8 of SFADII test 1 of 2

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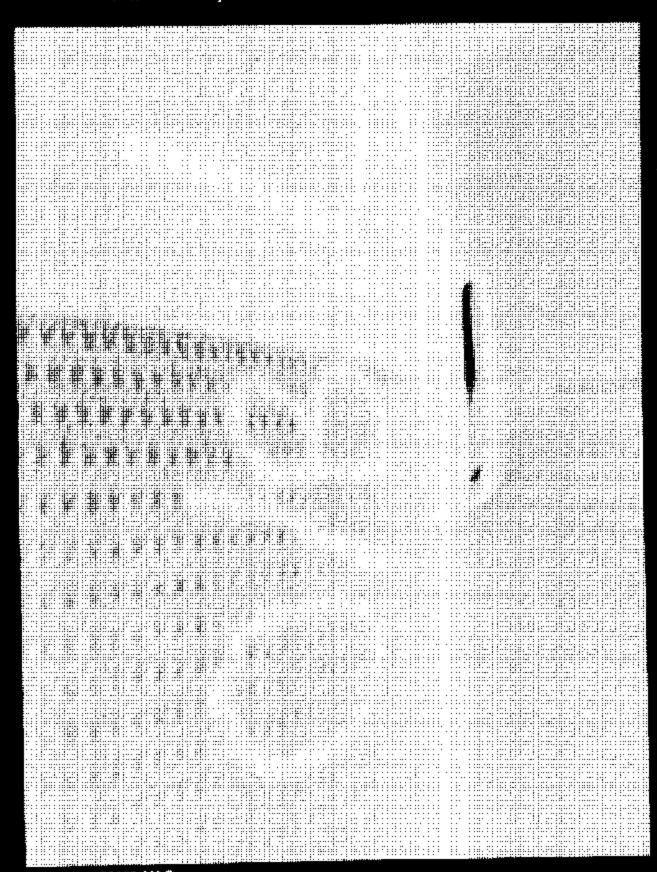
6.7.9 Post-test photo #9 of SFADII test 1 of 2

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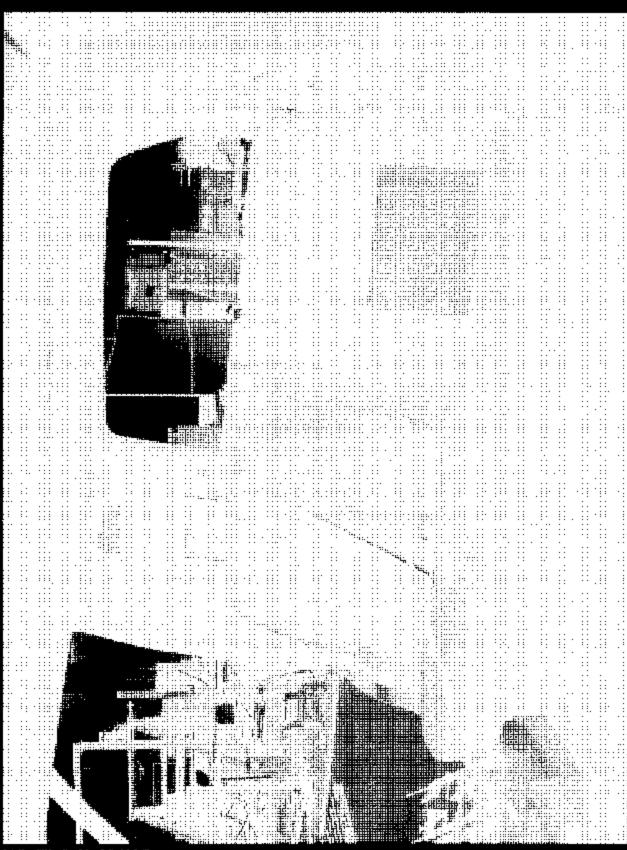
6.7.10 Post-test photo #10 of SFADII test 1 of 2

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6.7.11 Post-test photo #11 of SFADII test 1 of 2



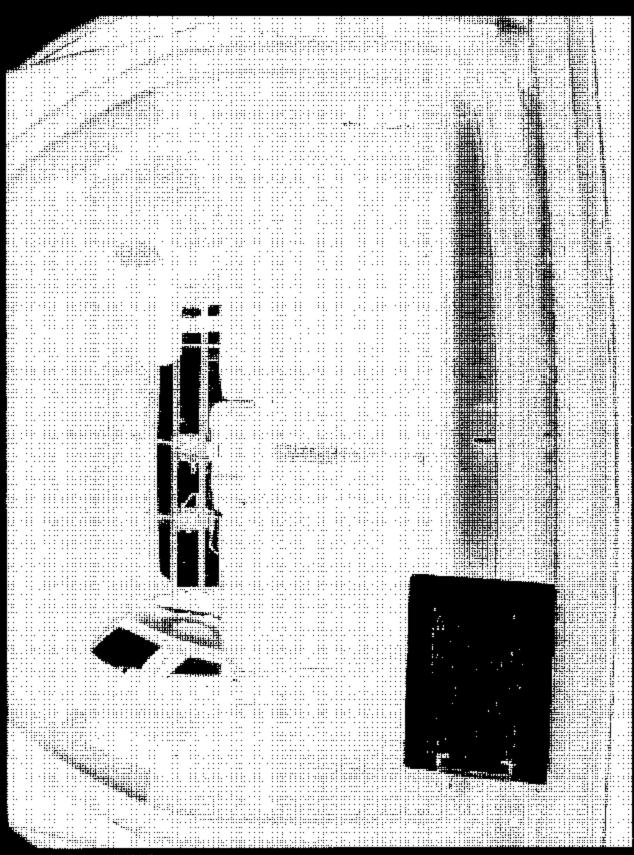
6.7.12 Post-test photo #12 of SFADI test 2 of 2



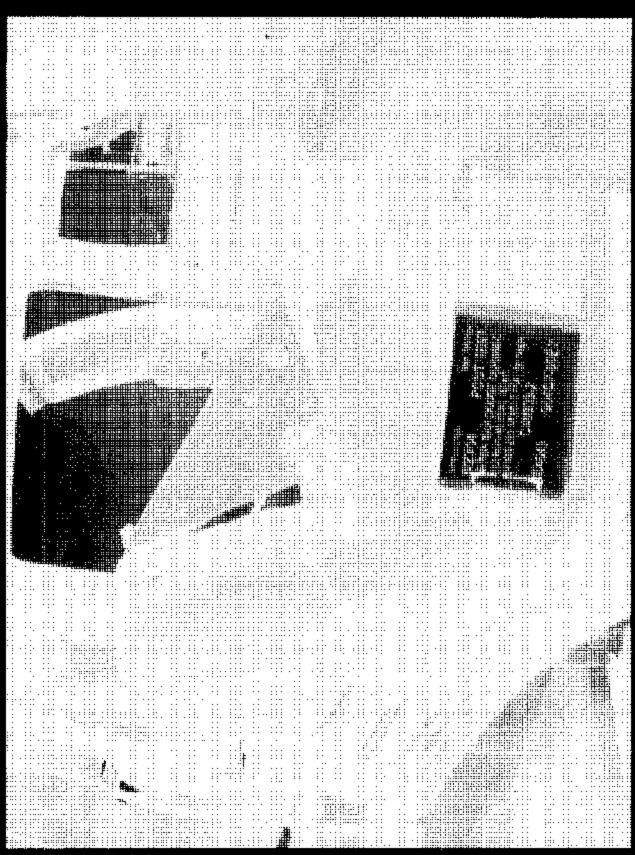
6.7.13 Post-test photo #13 of SFADI test 2 of 2



6.7.14 Post-test photo #14 of SFADI test 2 of 2



6.7.15 Post-test photo #15 of SFADI test 2 of 2



6.7.16 Post-test phote #16 of SFADI test 2 of 2

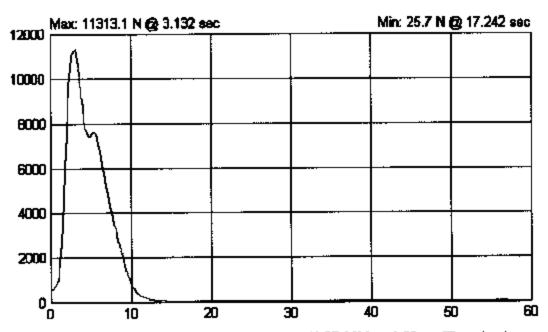


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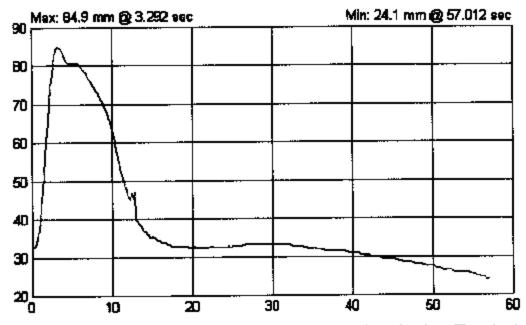
6.7.17 Post-test photo #17 of SFADI test 2 of 2

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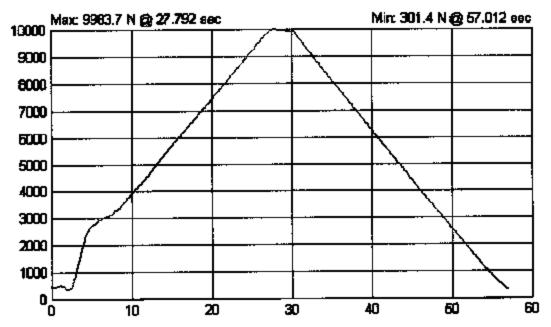
7.0 PLOTS



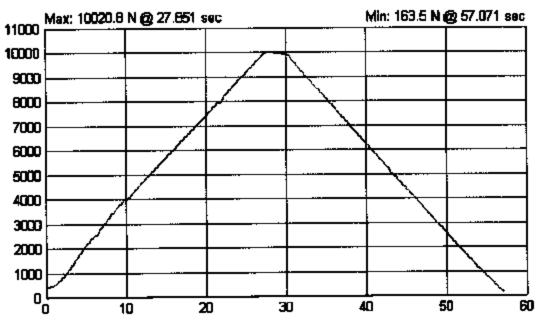
Run# SB4648: Lower Anchor Test (\$15.3)-2R LH Load (N) vs. Time (sec)



Rust# SB4648: Lower Anchor Test (515.3)-Lift SFAD 2 X Disp. (mm) vs. Time (set)



Run# SB4648: Lower Anchor and Top Tether Test (S6.3.4)-2R RH Load (N) vs. Time (sec)



Run# SB4649: SFAD1 Tether Test (S6.3.4) 2R CTR Lead (M) vs. Time (sec)

8.0 REPORT of VEHICLE CONDITION

REPORT OF VEHICLE CONDITION AT THE COMPLETION OF TESTING

CONTRACT No.: <u>DTNH22-02-D-11043</u>

DATE: <u>August 23, 2004</u>

From: MGA Research Corporation, 446 Executive Drive, Troy, MI 48083

To: NHTSA, OVSC, NVS-221

The following vehicle has been subjected to compliance testing for FMVSS No. 208 and 225

The vehicle was inspected upon arrival at the laboratory for the test and found to contain all of the equipment listed below. All variances have been reported within 2 working days of vehicle arrival, by letter, to the NHTSA Industrial Property Manager (NADO-30), with a copy to the OVSC COTR. The vehicle is again inspected, after the above test has been conducted, and all changes are noted below. The final condition of the vehicle is also noted in detail.

VEH, MOD YR/MAKE/MODEL/BODY: 2004 Dodge Durango

VEH. NHTSA NO.: C40303

VIN: 1D4HD48N04F114309

COLOR: Black

ODOMETER READINGS:

ARRIVAL

94 miles

Date: 7/15/04

COMPLETION

94 miles

Date: 8/23/04

PURCHASE PRICE: N/A

DEALER'S NAME: Hub West Dodge/Chrysler

ENGINE DATA:

8 cylinder, 4.7 Liters

TRANSMISSION DATA:

X Automatic

Manual

No. of Speeds 5

FINAL DRIVE DATA:

X Rear Drive

Front Drive

4 Wheel Drive

CHECK APPROPRIATE BOXES FOR VEHICLE EQUIPMENT:

TEST LABORATORY: MGA Research Corporation

OBSERVERS: Melanie Schick, Brad Regume, Kenney Godfrey

X	Air Conditioning		Traction Control	Х	Clock
х	Tinted Glass		All Wheel Drive	x	Roof Rack
х	Power Steering	х	Speed Control	X	Console
X	Power Windows	х	Rear Window Defroster	x	Driver Air Bag
X	Power Door Locks		Sun Roof or T-Top	X	Passenger Air Bag
Х	Power Seat(s)	х	Tachometer	x	Front Disc Brakes
х	Power Brakes	х	Tilt Steering Wheel	Х	Rear Disc Brakes
Х	Antilock Brake System	Тх	AM/FM/Compact Disc		Other

Safety Compliance Testing For FMVSS 225 "Child Restraint Anchorage Systems" Page 52 of 66 C40303 / DTNH22-02-D-11043

REMARKS:

Salvage only.

Equipment that is no longer on the test vehicle as noted on previous pages:

All equipment inventoried and placed in vehicle.

Explanation for equipment removal:

Windshield and front seats were removed before conducting the testing.

Test Vehicle Condition:

Salvage only.

RECORDED BY: Melanie Schick, Kenney Godfrey

DATE; August 23, 2004

APPROVED BY: Brad Reaume

APPENDIX A OWNERS MANUAL CHILD RESTRAINT SYSTEMS

THESES TO KNOW BEFORE STARTING YOUR VEHICLE 48

NOTE: If the speciesneter, tachumeter or any engine related gauges are not working, the airbag control module may also be disabled. The airbags may not be ready to inflate for your protection. Promptly check fuse block for blown fuses. Refer to the label located on the inside of the fuse block cover for the proper airbag fuses. See your dealer if the fuse is good.

Child Restraint

Everyone in your vehicle needs to be buckled up all the time - bebies and children, too. Every state in the United States and all Canadian provinces require that small children side in proper restraint systems. This is the law, and you can be prosecuted for ignoring it. Children 12 years and under should ride properly buckled up in a tear seat, if available. According to mash statistics, children are sofer when properly restrained in the rear seats rather than in the front.

Infants and Schildren

There are different cizes and types of restraints for daildren from newborn size to the child almost large enough for an adult seat belt. Always check the child seat owner's manual to cosons you have the right sent for your child. Use the restraint that is correct for your child:

- This vehicle is not capable of accommodating the installation of a car bed used for carrying newborn babies at the right front pessenger seat position. If a car bed must be used to transport a newborn baby, the car bed must be installed in the second seating row only.
- Safety experts recommend that children ride regregard-facing in the vehicle until they are at least one year old and weigh at least 20 lie (9 kg). Two types of child restmints can be used rearward facing; infant carriers and "convertible" child seats.
- The infant carrier is only used rearward-facing in the
 webtels. It is recommended for children who weigh up
 to about 20 the (9 kg). "Convertible" child seats can be
 used either rearward-facing or forward-facing in the
 webtels. Convertible child seats often have a higher
 weight limit in the rearward-facing direction than
 infant carriers do, so they can be used rearward-facing
 by children who weigh more than 20 lbs (9 kg) but are
 lass than one year old.

46 THERES TO IGNOW BEFORE STARTING YOUR VEHICLE

- Rearward-facing child sents must NEVER be used in the front sent of a vehicle with a front passenger airbag. An airbag deployment could cause servers injury or death to infants in this position.
- Children who weigh more than 20 lbs (9 kg) and who are older than one year our ride forward-facing in the vehicle. Forward-facing child seats and convertible child seats used in the forward-facing direction are for children who weigh 20 in 40 lbs (9 to 18 kg), and are older than one year old. These child seats are also held in the vehicle by the lap/shoulder belt.
- The belt-positioning booster sent is for children weighing aware then 40 lbs (18 kg), but who are still too small to fit the vehicle's sent belts properly. If the child owned alt with knees bent over the sent cushion while the child's back is against the sentback, they need a belt-positioning hooster sent. The child and booster sent are held in the vehicle by the lap/shoulder belt. (Some booster sents are equipped with a front shield and are held in the vehicle by the lap portion).
- For additional information, refer to www.sustcheck.org.

- Improper installation can lead to fallure of an infant or child rectraint. It could come loose in a collision. The child could be badly injured or Miled. Follow the manufacturer's directions opactly when installing an infant or child rectraint.
- A marward facing infant restraint should only be used in a rear seat. A rearward facing infant restraint in the front next may be struck by a duploying passenger aideag which may cause severs or fatal to the infant.

Here are some tipe for getting the most out of your child restorint:

 Before buying any restraint system, make sore that it has a label certifying that it meets all applicable Safety Standards. The manufacturer recommends that you try a child restraint in the vehicle seats where you will use it before you buy it.

MGA File #: G04Q7-002.7

- The restraint must be appropriate for your child's weight and height. Check the label on the restraint for weight and height limits.
- Casefully follow the instructions that come with the restraint. If you install the restraint improperly, it may not work when you need it.
- The second row outside senting positions and all third row seats have cirching latch plates. The second row center position has an adjustable locking retracted These are designed to keep the lap portion tight around the child restraint so that it is not necessary to use a locking clip. If the seat belt has a cinching latch plate, pulling up on the shoulder portion of the lap/shoulder belt will tighten the belt. The cinching latch plate will keep the belt tight, however, any seat belt system will known with time, so check the belt occasionally and pull it tight if necessary. If the seat buit has a metomatic locking seizactor, it will have a distinctive label. Pull the belt from the setractor until there is enough to allow you to pass through the child restraint and slide the latch plate into the buckle. Then, pull the best until it is all extracted from the retractor.

THENGS TO KNOW MEPORE STARTING YOUR VEHICLE 47

Allow the best to return to the retractor, pulling on the cores webbing to tighten the top portion about the child matraint. Refer to "Automatic Locking Mode" curies in this section.

- Buckle the child into the restraint exactly as the manufacturer's instructions tell you.
- When your child restraint is not in use, secure it in the
 vehicle with the seat helt or remove it from the vehicle.
 Do not kneve it loose in the vehicle. In a sudden stop or
 collision, it could strike the occupants or seat backs
 and cause serious personal injury.

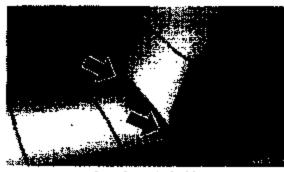
LATCH - Child Seat Anchorage System (Lower Anchora and Tether for Children)

Your vehicle's second row sent is equipped with the child restraint uncharage system called LATCH. The LATCH system provides for the installation of the child restraint without using the vehicle's sent bein, instead securing the child restraint using lower archorages and upper tether straps from the child restraint to the vehicle structure. LATCH-compatible child restraint systems are now available. However, because the lower archorages are to be introduced over a period of years, child restraint

48 THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

systems having attachments for those anchorages will continue to also have features for installation using the vehicle's seat belts. Child restraints having tether straps and hooks for connection to the top tether encharages have been available for some time. For some older child restraints, many child restraint manufacturers offer add-on tether strap kits or retro-fit kits. You are urged to take advantage of all the available attachments provided with your child restraint in any vehicle.

The outboard second row seeting positions have lower anchorages that are capable of accommodating LATCH-compatible child seats. NEVHR install LATCH-compatible child seats such that two seats above a common lower suchorage. If installing child seats in adjacent seating positions or if your child restraints are not LATCH-compatible, install the restraints using the vehicle's seat below.



Second How Left Side

MGA File #: G04Q7-002.7





Second Row Right Side

Installing the LATCH-Compatible Child Restraint

We urge that you carefully follow the directions of the manufacturer when installing your child sestmint. Not all child sestmint systems will be installed as described here. Again, carefully follow the installation instructions that were provided with the child sestmint system. The rear seat lower suchorages are round burn, located at the rear of the seat cushion where it meets the seat back, and are just visible when you less into the sear seat to install the child restraint. You will easily feel them if you run your

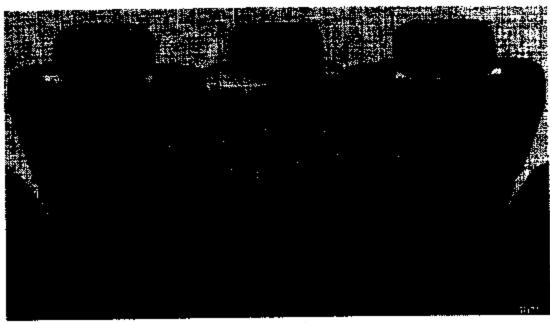
finger along the intersection of the seatherk and rest custion surfaces. In addition, there are tether strap ancharages behind each second row sesting position located on the back of the seat. Many, but not all restraint systems. will be equipped with separate straps on each side, with each having a hook or connector for attachment to the lower enchange and a means of adjusting the tension in the strep. Forward-facing toddler restraints and some rear-facing infant neutraints will also be equipped with a tether strap, a hook for attachment to the tather strap anchorage and a means of adjusting the tension of the strep. You will first loosen the adjusters on the lower strape and on the tether strap so that you can more easily attack the hooks or connectors to the vehicle suchomers. Next attach the lower hocks or correctors over the top of the anchorage bars, pushing saids the seat cover material. Then attach the tether strep to the anchorage located on the back of the cest, being careful to route the tather strap to provide the most direct path between the enchor and the child restraint. If your vehicle is equipped with adjustable sear head restraints, raise the head restraint and, route the tether strep under the bead restraint and between the two posts. Finally, tighten all three straps as you push the child restraint retrivend and downward take the seat, removing slack in the straps according to the child restraint manufacturer's instructions.

OF THE MORE TO MOREON BESTONE STRUCTURE YOUR VEHICLE I

improper installation of a child sustaint to the LATCH anchorages can lead to failure of an infant or child resimist. The child enough be builty injured or hilled. Follow the manufacturer's directions exactly when installing an infant or child restraint.

Installing Child Restorters Using the Vahicle Seat Belt The passenger cost belts are equipped with either chacking latch plates or extornatic locking retractors, which are designed to keep the lap portion light around the child noteants so that it should not be necessary to use a locking clip. If the seat belt late a cinching latch plate, pailing up on the shoulder postion of the lap/choulder belt will tighten the belt. The cincludg latch plate will keep the belt tight, however, any mut belt system will loosen with time, so chack the belt occasionally and pull it tight if necessary. If the seat belt has an automatic locking relactor, it will have a distinctive label. Pull the belt from the sciractor until there is enough to allow you to pass through the child retraint and slide the latch plate into the buckle. Then, pull the belt until it is all

extracted from the retractor. Allow the belt to setum to the retractor, pulling on the excuss webbing to tighten the hap portion about the child national. For automotic locking retractor seat belts, refer to "Automatic Locking Mode eatier in this section, if you have trouble tightening the hyp/shoulder belt on the child restraint because the backle or latch plate is too close to the best path. opening on the restraint, fallow these steps. If the buckle is waithing mounted, disconnect the latch plate from the buckle and twist the short buckle-end belt to shorten it. Insert the latch plate into the buckle with the release button facing out. If the belt still can't be tightened, the buckle is not webbing mounted, or if by pulling and pushing on the restraint loosens the belt, you may need to do something more. Discussors the latch plate from the backle, turn the latch plate around, and insert the latch plate into the buckle again. If you still can't make the child restraint secure, try a different seating position or use the locking clip provided with your child outsides. To attach a child restraint tother strap: Route the bether strap over the seat back, between the head restraint posts and attach the hook to the tether anchor located on the back of the sext.



Second Row Sest

82 THRIGS TO KNOW BEFORE STARTING YOUR VEHICLE I

Child Restraints in Third Row Senting (If Equipped)

The third senting new is not capable of installing child rectraints that require the use of a tetler strap. There are no tetler anchor provisions for the third senting row in your vehicle, the hooks in the rear floor are not designed to withstand the forces that may occur during a crash.

An interrecity anchored tother strap could lead to increased head motion and possible injury to the child. Use only the anchor positions directly behind the child seat to secure a child restraint top tother strap. Do not install a child restraint that requires a tother strap in the third seating row (if equipped) of this vehicle.

Child Restraint Tether Anchor

These are lather strap anchorages behind each senting position in the second row. For vehicles equipped with third row seating, there is no Child Tether Anchorage provided for the third row of seats. To install child restraint tethers follow these instructions.

- Place the child restraint in the second row of seats.
- Route the tether strap under the head restraint and between the two poets.
- Attach the tether strap book of the child testmint to the tether anchor located on the sent back and remove the slack in the tether strap according to the susuafactorer's instructions.

An incorrectly suchased infine etcap could lead to sent failure and injury to the child. In a collision, the sent could come house and allow the child to crash late the issue of the vehicle or other passangers, or even be thrown from the vehicle. Use only the anchor positions directly behind the child sent to secure a child restmint top terior strap. Follow the instructions below. See your dealer for help if necessary.

Children Too Lurge for Booster Seets

Children who are large snough to wear the shoulder belt constantly, and whose legs are long enough to band over the front of the seat when their back is against the seat back should use the lop/aboulder belt in a near seat.

THUMBS TO HOUSE BEFORE STARTING YOUR VEHICLE - NO

- Make pure that the child is upright in the seat.
- The lap portion should be low on the hips and as army as possible.
- Check beit fit periodically. A child's equiuming or slouching can move the belt out of position.
- If the shoulder belt contacts the face or neck, move the child closer to the center of the vehicle. Never allow a child to put the shoulder belt under set arm.

Transporting Pets

Airbags deploying in the front met could harm your pet.

Air unrestmined pet will be theown about and possibly injured, or injure a passenger during penic braking or in a collision. Pets should be restrained in the rear seat in pet harmasses or pet carriers that are secured by seat belia.

APPENDIX B MANUFACTURER'S DATA (OVSC FORM 1)

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DOT OVSC 221

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FORM 14

SEAT REFERENCE POINT (SRP) AND TORSO ANGLE DATA FOR FMV88 225

(All dimensions in mm)

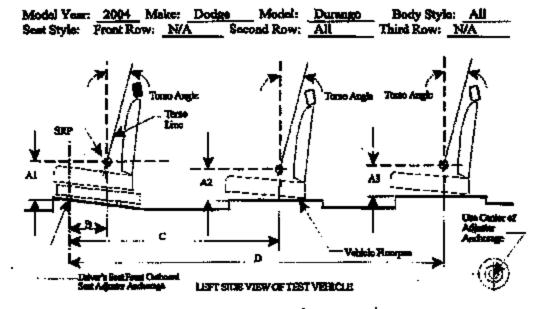


Table 1. Scating Positions and Torso Angles

		Left (Driver Side)	Center (if my)	Right
	Ai :	(Delvee)	271.8	263.0
	12	290.3	285.5	290.3
	13	168.0	168.1	168.0
· · ·	В	329.4	329.4	327.0
	C	1170.3	1170.3	1167.9
	D	1996.4	1996.4	1994.1
Torso	Front Row	22 Degrees	N/A	22 Degrees
(dagrae)	Second Row	24 Degrees	24 Degrees	24 Degrees
(Third Row	22 Degrees	N/A	22 Degrees

Note: 1. All dimensions are in mm. If not, provide the unit used.

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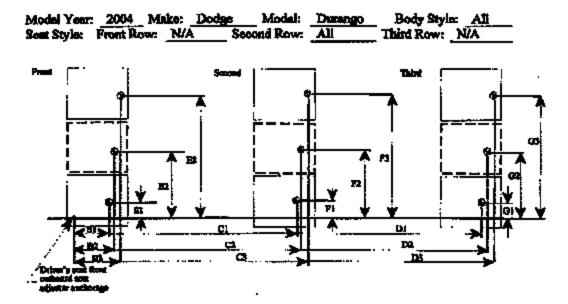
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PORM 14

SEATING REFERENCE POINT FOR PMVSS 225 (All dimensions in mm)



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PORM 14

SEATING REFERENCE POINT FOR FMVS8 225 (All dimensions in mm)

Table 2. Sesting Reference Point and Tother Anchorage Locations

Seating Raference	Point (SRP)	Distance from Driver's front outboard seat adjuster anchorage.
Front Row	B1	329.4
	Bi	218.0
	R2	N/A
	F2	N/A
	193	327.1
	E3	1008.0
Second Row	Cl	1170.3
	F1	218.0
	C2	1170.3
	F2	613.0
	C3_	1170.3
	F3	1008.0
Third Row	101	1996.4
	G)	338.0
	D2	1996.4
	G2	613.0
	D3	1996.4
	G3	888.0

Note: 1. Use the center of anchorage.

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M 006

FORM 14

TETHER ANCHORAGE LOCATIONS POR FMV88 225 (All dimensions in mm)

Model Year: 2004 Make: Dodge Model: Dosesno Body Style: All Third Row: N/A

Proof Row: N/A Second Row: All Third Row: N/A

Proof Row: N/A Second Row: All Third Row: N/A

♥: SRP ♦: Tables embyogs

Note: 1. The location shall be measured at the center of the bar.

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DOT OVSC 221

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FORM 14

TETHER ANCHORAGE LOCATIONS FOR FMVBS 225 (All dimensions in mm)

Table 3. Seeing Reference Point and Tether Anthorage Locations

Seating Reference Point (SRP)		Distance from SRP
Front Row	Hl	NA
	K1	N/A
	H2	NA
	K2	N/A
	H	N∕A
	K3	N/A
Second Row	Ii	190.9
	Ll	19-1
,	12	193.1
	Ľ2	0
·	B	190.9
	L3	19.1
Third Row	л	N/A
	MI	N/A
	J2	N/A
	M2	N/A
	33	N/A
	МЗ	NA

Note: 1. Use the center of anchorage.

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DOT OVSC 221

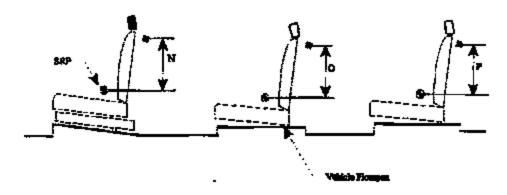
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FORM 14

TETHER ANCHORAGE LOCATIONS - VERTICAL FOR FMVSS 225 (All dissensions in mm)

Model Year: 2004 Make: Dodge Model: Dorrango Body Style: All Sont Style: Front Row: N/A Second Row: All Third Row: N/A



LEFT SECRIFICATION OF THE TANKED P.

Table 4. Vertical Dimension For The Tether Anchorage.

Seating Row	Vertical Distant	oc from Seating Reference Print
Pront Row	Ni (Driver)	NA
	N2 (Center)	N/A
	N3 (Right)	N/A
Second Row	O1 (Left)	182.6
	OS (Center)	180.6
	O3 (Right)	182.6
Third Row	Pl (Laft)	N/A
	P2 (Center)	NVA
	P3 (Rìght)	N/A

Note: 1. All dimensions are in mm. If not, provide the unit used.

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FORM 14

Test Procedures Used for Compliance Tests

Techer Ancherogee

	<u>-</u>		FMVSS Section(s)	Req.
		Allowed	until 9/1/04	Required after 9/1/04
Seating L	ocation.	\$6.3.4 (10 kN)	56.3.4.1 (5.3 kN)	\$6.3.1 (15 kN)
	Driver	N/A	N/A	N/A
Front	Center (if any)	N/A	NA	N/A
	Right (if any)	NA	N/A	N/A
	l,eft	Used	N/A	N/A
\$econd	Center	Usel	N/A	N/A
	Right (if any)	Used	N/A	NA
	Left	N/A	N/A	N/A
Third	Center	NA	N/A	N/A
	Right	N/A	N/A	N/A
	Left	N/A	N/A	N/A
Fourth	Center	N/A	N/A	NA
	Right	N/A	NA	N/A

Lewer Anchorages

		FMV88 Se	ction(s) - Req.
		Allowed until 9/1/04	Required after 9/1/04
Seating Loca	rtion.	\$153 (8 kN / 5 kN)	89.4 (11 kN / 5 kN)
	Driver	NVA	N/A
Prest	Center (if may)	NVA	N/A
	Right (if may)	NA	N/A
	Left	Used	N/A
Second	Cepter	N/A	N/A
	Right (if any)	Used	N/A
	Left	N/A	N/A
Third	Center	N/A	N/A
	Right	NVA	N/A
	Left	N/A	N/A
Fourth	Ceater	N/A	N/A
	Right	NA	N/A

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