REPORT NUMBER 225-GTL-05-004

SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 225
CHILD RESTRAINT ANCHORAGE SYSTEMS
LOWER AND TETHER ANCHORAGES

DAIMLERCHRYSLER CORPORATION
2005 DODGE GRAND CARAVAN, MPV
NHTSA NO. C50303

GENERAL TESTING LABORATORIES, INC.
1623 LEEDSTOWN ROAD
COLONIAL BEACH, VIRGINIA 22443

NOVEMBER 2, 2005
FINAL REPORT
PREPARED FOR
U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
SAFETY ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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WASHINGTON, D.C. 20590
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Prepared By: _______________________

Approved By: _____________________

Approval Date: ____________________

FINAL REPORT ACCEPTANCE BY OVSC:

Accepted By: _______________________

Acceptance Date: 12/20/05
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<td>GTL-DOT-05-225-004</td>
<td>General Testing Laboratories, Inc. 1623 Leedstown Road Colonial Beach, Va. 22443</td>
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<td>Compliance tests were conducted on the subject, 2005 Dodge Grand Caravan MPV in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-225-01 for the determination of FMVSS 225 compliance. Test failures identified were as follows: NONE</td>
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Appendix A – Owner’s Manual Child Restraint Information
Appendix B – Manufacturer’s Data
SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2005 Dodge Grand Caravan MPV was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 225 testing to determine if the vehicle was in compliance with the requirements of the standard. The purpose of this standard is to establish requirements for child restraint anchorage systems to ensure their proper location and strength for the effective securing of child restraints, to reduce the likelihood of the anchorage systems' failure and to increase the likelihood that child restraints are properly secured and thus more fully achieve their potential effectiveness in motor vehicles.

1.1 The test vehicle was a 2005 Dodge Grand Caravan MPV. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 2D4GP24R65R203599

B. NHTSA No.: C50303

C. Manufacturer: DAIMLERCHRYSLER CORPORATION

D. Manufacture Date: 06/04

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 225 testing during the time period September 29, 2005.
SECTION 2

COMPLIANCE TEST RESULTS

2.0 TEST RESULTS

All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedures, TP-225-01 dated 11 April 2005.

Based on the test performed, the 2005 DODGE GRAND CARAVAN MPV appeared to meet the requirements of FMVSS 225 testing.
SECTION 3
COMPLIANCE TEST DATA

3.0 TEST DATA

The following data sheets document the results of testing on the 2005 Dodge Grand Caravan MPV.

DATA SHEET 1
SUMMARY OF RESULTS
A. VISUAL INSPECTION OF TEST VEHICLE

Upon receipt for completeness, function, and discrepancies or damage which might influence the testing.

RESULTS: OK FOR TEST

B. REQUIREMENTS FOR CHILD RESTRAINT SYSTEMS AND TETHER ANCHORAGES

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<th>FAIL</th>
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<tr>
<td>DSP b</td>
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<td>DSP c</td>
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C. LOCATION OF TETHER ANCHORAGES

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DATA SHEET 1 CONTINUED
SUMMARY OF RESULTS
E. CONSPICUITY AND MARKING OF LOWER ANCHORAGES

DSP a  PASS  FAIL
      X    
DSP b  PASS  FAIL
      X    
DSP c  PASS  FAIL
      X    

F. STRENGTH OF TETHER ANCHORAGES

DSP a  PASS  FAIL
       N/A  N/A
DSP b  PASS  FAIL
       X    
DSP c  PASS  FAIL
       X    

G. STRENGTH OF LOWER ANCHORAGES (Forward Force)

DSP a  PASS  FAIL
       X    
DSP b  PASS  FAIL
       N/A  N/A
DSP c  PASS  FAIL
       N/A  N/A

H. STRENGTH OF LOWER ANCHORAGE (Lateral Force)

DSP a  PASS  FAIL
       N/A  N/A
DSP b  PASS  FAIL
       N/A  N/A
DSP c  PASS  FAIL
       N/A  N/A

I. OWNER'S MANUAL

PASS  FAIL
      X    

REMARKS: DSP a = Row 2, Left Rear Outboard, DSP b = Row 2, Right Rear Outboard,
          DSP c = Row 3, Center

RECORDED BY: ___________________________ DATE: __09/29/05__

APPROVED BY: ___________________________

DATA SHEET 2
REQUIREMENTS FOR CHILD RESTRAINT ANCHORAGE SYSTEMS
AND TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV
Number of rows of seats: ______ 3 ______
Number of rear, forward-facing designated seating positions: ______ 5 ______
Number of required CRAS (lower anchorages only, for convertibles/school buses): ______ 2 ______
Number of required tether anchorages (can be additional CRAS): ______ 3 ______

Is the vehicle a convertible? ______ NO ______
Is the vehicle a school bus? ______ NO ______

Does the vehicle have a CRAS (lower anchorage only, for convertibles/school buses) installed at a front passenger seating position? ______ NO ______
   If NO, skip to next question.
   If YES, does the vehicle have rear designated seating positions? ______
      If NO, does the vehicle have an air bag on-off switch or a special exemption for no passenger air bag?
         If NO = FAIL           If YES = PASS
         If Yes, does the vehicle meet the requirements of S4.5.4.1 (b) of S208 and have an air bag on-off switch or a special exemption for no passenger air bag? ______
            Record the distance between the front and rear seat back: ______
            If Distance < 720 mm and vehicle has an air bag on-off switch or special exemption = PASS
            If Distance ≥ 720 mm or no air bag on-off switch or no special exemption = FAIL

Does the vehicle have rear designated seating position(s) where the lower bars of a CRAS are prevented from being located because of transmission and/or suspension component interference? ______ NO ______
   If NO, skip to next question.
   If YES, does the vehicle have a tether anchorage at a front passenger seating position? ______
      YES = PASS           NO = FAIL (S5(e))

Number of provided CRAS (lower anchorage only, for convertibles/school buses), indicate if a built-in child restraint is counted as a CRAS: ______ 3 ______

Is the number of provided CRAS (lower anchorages only, for convertible/school buses) greater than or equal to the number of required CRAS (lower anchorages only, for convertibles/school buses)? ______
   YES = PASS           NO = FAIL (S4.4(a) or (b) or (c))

DATA SHEET 2 CONTINUED

If the vehicle has 3 or more rows of seats is a CRAS (lower anchorage only for convertibles/school buses) provided in the second row: ______
   YES = PASS           NO = FAIL (S4.4(a)(1))

Number of provided tether anchorages (can be additional CRAS) indicate if a built-in child restraint
is counted a s tether anchorage (NOTE: a built-in child restraint can only be counted toward either
the required number of CRAS or tether anchorages, not both):  3

Is the number of provided tether anchorages greater than or equal to the number of required tether
anchorages?  YES  NO = FAIL (S4.4 (a) or (b) or (c))

YES = PASS

If the vehicle has 3 or more rear dsp5 and a non-outboard dsp, is a tether anchorage or CRAS
provided at a non-outboard dsp?  YES

YES = PASS  NO = FAIL (S4.4 (a)(2))

Are all tether and lower anchorages available for use at all times when the seat is configured for
passenger use?  YES

YES = PASS  NO = FAIL (S4.6 (b))

Provide a diagram showing the location of lower anchorages and/or tether anchorages.

X

3RD ROW

* *

C

2ND ROW

* *

B

* *

A

X = Top Tether

* = Lower Anchors

RECORDED BY: ___________________________ DATE: 09/29/05

APPROVED BY: ___________________________
DATA SHEET 3
LOCATION OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV
VEH. NHTSA NO: C50303; VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04; TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: ROW 2 LEFT SIDE (DSP A)

Detailed description of the location of the tether anchorage:
Located behind seat on seat mounting pedestal.

Based on visual inspection, is the tether anchorage within the shaded zone? YES
If YES = PASS, skip to next section
If NO, After constructing the shaded zone, is the tether anchorage within the shaded zone?

If YES = PASS, skip to next section
If NO, Is it possible to locate a tether anchorage within the shaded zone without removing a seating component?
If YES = FAIL (S6.2.1)
If NO, Is a tether routing device provided?
If YES = PASS
If NO = FAIL (S6.2.1.2)

Is the tether anchorage recessed? NO
If NO, skip to next question
If YES, is it outside of the tether strap wraparound area? N/A
YES = PASS; NO = FAIL (S6.2.1)

Does the tether anchorage permit attachment of a tether hook? YES
YES = PASS; NO = FAIL (S6.1(a))

Is the tether anchorage accessible without the need for any tools other than a screwdriver or coin? YES
YES = PASS; NO = FAIL (S6.1(b))

After the tether anchorage is accessed, is it ready for use without the need for tools? YES
YES = PASS; NO = FAIL (S6.1(c))

Is the tether anchorage sealed to prevent the entry of exhaust fumes into the passenger compartment? YES
YES = PASS; NO = FAIL (S6.1(d))

If the DSP has a tether routing device, is it flexible or rigid? N/A

DATA SHEET 3 CONTINUED
DESIGNATED SEATING POSITION: ROW 2 LEFT SIDE (DSP A)

If the DSP has a flexible tether routing device, after installing SFAD2 record the tether strap tension:

_____ N/A _____ (Must be 60 N ± 5 N)

If the DSP has a flexible tether routing device, record the horizontal distance between the torso reference plane and the routing device:

_____ N/A _____

Greater than or equal to 65mm = PASS  Less than 65mm = FAIL

If the DSP has a rigid tether routing device, record the horizontal distance between the torso reference plane and the routing device:

_____ N/A _____

Greater than or equal to 100mm = PASS  Less than 100mm = FAIL

COMMENTS:

RECORDED BY: ___________________________  DATE: __09/29/05________

APPROVED BY: ___________________________

DATA SHEET 3A
LOCATION OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV

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VEH. NHTSA NO: C50303; VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04; TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: ROW 2 RIGHT SIDE (DSP B)

Detailed description of the location of the tether anchorage:
Located behind seat on seat mounting pedestal.

Based on visual inspection, is the tether anchorage within the shaded zone? YES
If YES = PASS, skip to next section
If NO, After constructing the shaded zone, is the tether anchorage within the shaded zone?

If YES = PASS, skip to next section
If NO, Is it possible to locate a tether anchorage within the shaded zone without removing a seating component?
If YES = FAIL (S6.2.1)
If NO, Is a tether routing device provided?
If YES = PASS
If NO = FAIL (S6.2.1.2)

Is the tether anchorage recessed? NO
If NO, skip to next question
If YES, Is it outside of the tether strap wraparound area? N/A
YES = PASS
NO = FAIL (S6.2.1)

Does the tether anchorage permit attachment of a tether hook? YES
YES = PASS
NO = FAIL (S6.1(a))

Is the tether anchorage accessible without the need for any tools other than a screwdriver or coin? YES
YES = PASS
NO = FAIL (S6.1(b))

After the tether anchorage is accessed, is it ready for use without the need for tools? YES
YES = PASS
NO = FAIL (S6.1(c))

Is the tether anchorage sealed to prevent the entry of exhaust fumes into the passenger compartment? YES
YES = PASS
NO = FAIL (S6.1(d))

If the DSP has a tether routing device, is it flexible or rigid? N/A

DATA SHEET 3A CONTINUED

DESIGNATED SEATING POSITION: ROW 2 RIGHT SIDE (DSP B)

If the DSP has a flexible tether routing device, after installing SFAD2 record the tether strap tension: N/A (Must be 60 N ± 5 N)
If the DSP has a flexible tether routing device, record the horizontal distance between the torso reference plane and the routing device: N/A
Greater than or equal to 65mm = PASS  Less than 65mm = FAIL

If the DSP has a rigid tether routing device, record the horizontal distance between the torso reference plane and the routing device: N/A
Greater than or equal to 100mm = PASS  Less than 100mm = FAIL

COMMENTS:

RECORDED BY:                DATE: 09/29/05

APPROVED BY:                DATA SHEET 3B
LOCATION OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV
VEH. NHTSA NO: C50303;   VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04;   TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE
DESIGNATED SEATING POSITION: ROW 3 CENTER (DSP C)

Detailed description of the location of the tether anchorage:
Located on back side of seat back.

Based on visual inspection, is the tether anchorage within the shaded zone? YES
If YES = PASS, skip to next section
If NO, After constructing the shaded zone, is the tether anchorage within the shaded zone?

If YES = PASS, skip to next section
If NO, Is it possible to locate a tether anchorage within the shaded zone without removing a seating component?
If YES = FAIL (S6.2.1)
If NO, Is a tether routing device provided?
If YES = PASS
IF NO = FAIL (S6.2.1.2)

Is the tether anchorage recessed? NO
If NO, skip to next question
If YES, is it outside of the tether strap wraparound area? N/A

YES = PASS
NO = FAIL (S6.2.1)

Does the tether anchorage permit attachment of a tether hook? YES

YES = PASS
NO = FAIL (S6.1(a))

Is the tether anchorage accessible without the need for any tools other than a screwdriver or coin? YES

YES = PASS
NO = FAIL (S6.1(b))

After the tether anchorage is accessed, is it ready for use without the need for tools? YES

YES = PASS
NO = FAIL (S6.1(c))

Is the tether anchorage sealed to prevent the entry of exhaust fumes into the passenger compartment? YES

YES = PASS
NO = FAIL (S6.1(d))

If the DSP has a tether routing device, is it flexible or rigid? N/A

DATA SHEET 3B CONTINUED

DESIGNATED SEATING POSITION: ROW 3 CENTER (DSP C)

If the DSP has a flexible tether routing device, after installing SFAD2 record the tether strap tension: N/A (Must be 60 N ± 5 N)

If the DSP has a flexible tether routing device, record the horizontal distance between the torso reference plane and the routing device: N/A

Greater than or equal to 65mm = PASS
Less than 65mm = FAIL
If the DSP has a rigid tether routing device, record the horizontal distance between the torso reference plane and the routing device: N/A
Greater than or equal to 100mm = PASS  Less than 100mm = FAIL

COMMENTS:

RECORDED BY:_________________________  DATE:____09/29/05__________

APPROVED BY:_________________________  DATA SHEET 4
LOWER ANCHORAGE DIMENSIONS

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV
VEH. NHTSA NO: C50303;     VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04;     TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: ROW 2 LEFT SIDE (DSP A)

Outboard Lower Anchorage bar diameter: 6.05 mm
6mm ± 0.1 mm = PASS  Other size = FAIL (S9.1.1(a))

Inboard Lower Anchorage bar diameter: 6.05 mm
6mm ± 0.1mm = PASS  Other size = FAIL (S9.1.1(a))

Are the bars straight, horizontal and transverse? ____YES____
YES = PASS  NO = FAIL

Length of the straight portion of the bar (outboard lower anchorage): ____32 mm
Length ≥25mm = PASS  Length <25mm = FAIL (S9.1.1(c) (i))

Length of the straight portion of the bar (inboard lower anchorage): ____32 mm
Length ≥25mm = PASS  Length <25mm = FAIL (S9.1.1(c) (i))

Length between the anchor bar supports (outboard lower anchorage): ____39 mm
Length ≤60mm = PASS  Length >60mm = FAIL (S9.1.1(c) (ii))

Length between the anchor bar supports (inboard lower anchorage): ____39 mm
Length ≤60mm = PASS  Length >60mm = FAIL (S9.1.1(c) (ii))

CRF Pitch angle: ____18.1°____
Angle = 15°±10° = PASS  Angle≠15°±10° = FAIL (S9.2.1)

CRF Roll angle: ____0.0____
Angle = 0°±5° = PASS  Angle≠0°±5° = FAIL (S9.2.1)

CRF Yaw angle: ____0.0____
Angle = 0°±10° = PASS  Angle≠0°±10° = FAIL (S9.2.1)

Distance between point Z on the CRF and the front surface of outboard anchor bar: ____46 mm
Distance ≤70mm = PASS  Distance > 70mm = FAIL

Distance between point Z on the CRF and the front surface of inboard anchor bar: ____46 mm
Distance ≤70mm = PASS  Distance > 70mm = FAIL

DATA SHEET 4 CONTINUED

DESIGNATED SEATING POSITION: ____ROW 2 LEFT SIDE (DSP A)____

Distance between SgRP and the front surface of outboard anchor bar: ____130 mm
Distance ≥ 120mm = PASS  Distance < 120mm = FAIL

Distance between SgRP and the front surface of inboard anchor bar: ____130 mm
Distance ≥ 120mm = PASS  Distance < 120mm = FAIL

Based on visual observation, would a 100 N load cause the anchor bar to deform more than 5 mm? ____NO____
If NO = PASS
If YES = FAIL (S9.1.1(g)), Provide further description of the attachment of the anchor bar:

COMMENTS:

RECORDED BY: ________________________ DATE: 09/29/05

APPROVED BY: ________________________

DATA SHEET 4A
LOWER ANCHORAGE DIMENSIONS

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV
VEH. NHTSA NO: C50303; VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04 ; TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: ROW 2 RIGHT SIDE (DSP B)

Outboard Lower Anchorage bar diameter: 5.97 mm
6mm ± 0.1 mm = PASS Other size = FAIL (S9.1.1(a))

Inboard Lower Anchorage bar diameter: 5.97 mm
6mm ± 0.1 mm = PASS Other size = FAIL (S9.1.1(a))
Are the bars straight, horizontal and transverse? **YES**

YES = PASS  
NO = FAIL

Length of the straight portion of the bar (outboard lower anchorage): **32 mm**
Length ≥25mm = PASS  Length <25mm = FAIL (S9.1.1(c) (i))

Length of the straight portion of the bar (inboard lower anchorage): **32 mm**
Length ≥25mm = PASS  Length <25mm = FAIL (S9.1.1(c) (i))

Length between the anchor bar supports (outboard lower anchorage): **38 mm**
Length ≤60mm = PASS  Length >60mm = FAIL (S9.1.1(c) (ii))

Length between the anchor bar supports (inboard lower anchorage): **38 mm**
Length ≤60mm = PASS  Length >60mm = FAIL (S9.1.1(c) (ii))

CRF Pitch angle: **18.3°**
Angle = 15°±10° = PASS  Angle≠15°±10° = FAIL (S9.2.1)

CRF Roll angle: **0.0°**
Angle = 0°±5° = PASS  Angle≠0°±5° = FAIL (S9.2.1)

CRF Yaw angle: **0.0°**
Angle = 0°±10° = PASS  Angle≠0°±10° = FAIL (S9.2.1)

Distance between point Z on the CRF and the front surface of outboard anchor bar: **54 mm**
Distance ≤70mm = PASS  Distance >70mm = FAIL

Distance between point Z on the CRF and the front surface of inboard anchor bar: **54 mm**
Distance ≤70mm = PASS  Distance >70mm = FAIL

DATA SHEET 4A CONTINUED

DESIGNATED SEATING POSITION: **ROW 2 RIGHT SIDE (DSP B)**

Distance between SgRP and the front surface of outboard anchor bar: **128 mm**
Distance ≥120mm = PASS  Distance <120mm = FAIL

Distance between SgRP and the front surface of inboard anchor bar: **128 mm**
Distance ≥120mm = PASS  Distance <120mm = FAIL

Based on visual observation, would a 100 N load cause the anchor bar to deform more than 5 mm? **NO**

If NO = PASS
If YES = FAIL (S9.1.1(g)), Provide further description of the attachment of the anchor bar:
COMMENTS:

RECORDED BY: ___________________________ DATE: ____________

APPROVED BY: ___________________________

DATA SHEET 4B
LOWER ANCHORAGE DIMENSIONS

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV
VEH. NHTSA NO: C60303; VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04 ; TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: __ROW 3 CENTER (DSP C)___

Outboard Lower Anchorage bar diameter: ___5.99 mm___
6mm ± 0.1 mm = PASS Other size = FAIL (S9.1.1(a))

Inboard Lower Anchorage bar diameter: 5.99 mm___
6mm ± 0.1mm = PASS Other size = FAIL (S9.1.1(a))

Are the bars straight, horizontal and transverse? ___YES___
YES = PASS NO = FAIL

Length of the straight portion of the bar (outboard lower anchorage): ___30 mm___
Length ≥25mm = PASS Length <25mm = FAIL(S9.1.1(c) (i))
Length of the straight portion of the bar (inboard lower anchorage): 30 mm
Length ≥25mm = PASS  Length <25mm = FAIL (S9.1.1(c) (i))

Length between the anchor bar supports (outboard lower anchorage): 36 mm
Length ≤60mm = PASS  Length >60mm = FAIL (S9.1.1(c) (ii))

Length between the anchor bar supports (inboard lower anchorage): 36 mm
Length ≤60mm = PASS  Length >60mm = FAIL (S9.1.1(c) (ii))

CRF Pitch angle: 20.5°
Angle = 15°±10° = PASS  Angle≠15°±10° = FAIL (S9.2.1)

CRF Roll angle: 0.0°
Angle = 0°±5° = PASS  Angle≠0°±5° = FAIL (S9.2.1)

CRF Yaw angle: 0.0°
Angle = 0°±10° = PASS  Angle≠0°±10° = FAIL (S9.2.1)

Distance between point Z on the CRF and the front surface of outboard anchor bar: 55 mm
Distance ≤70mm = PASS  Distance > 70mm = FAIL

Distance between point Z on the CRF and the front surface of inboard anchor bar: 55 mm
Distance ≤70mm = PASS  Distance > 70mm = FAIL

DATA SHEET 4B CONTINUED

DESIGNATED SEATING POSITION: ROW 3 CENTER (DSP C)

Distance between SgRP and the front surface of outboard anchor bar: 140 mm
Distance ≥120mm = PASS  Distance < 120mm = FAIL

Distance between SgRP and the front surface of inboard anchor bar: 140 mm
Distance ≥120mm = PASS  Distance < 120mm = FAIL

Based on visual observation, would a 100 N load cause the anchor bar to deform more than 5 mm? NO

If NO = PASS
If YES = FAIL (S9.1.1(g)), Provide further description of the attachment of the anchor bar:
DATA SHEET 5
CONSPICUITY AND MARKING OF LOWER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV

VEH. NHTSA NO: C50303; VIN: 2D4GP24R65R203599

VEH. BUILD DATE: 06/04; TEST DATE: SEPTEMBER 29, 2005

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: ROW 2 LEFT SIDE (DSP A)

MARKING (Circles)

Diameter of the circle: ___ N/A ___

Diameter ≥13mm = PASS Diameter <13mm = FAIL (S9.5(a)(1))

Does the circle have words, symbols or pictograms? ___ NO ___

NO skip to next question

YES, are the meaning of the words, symbols or pictograms explained in the owner's manual?

___ N/A ___

YES = PASS NO = FAIL (S9.5(a)(2))

Where is the circle located? Seat back or seat Cushion: ___ N/A ___

For circles on seat backs, vertical distance from the center of the circle to the center of the anchor bar: ___ N/A ___

Distance between 50 & 100mm = PASS Other Distance=FAIL (S9.5(a)(3))
For circles on seat cushions, horizontal distance from the center of the circle to the center of the bar:  

N/A  
Distance between 75 & 125mm = PASS  Other Distance=FAIL (S9.5(a)(3))  

Lateral distance from the center of the circle to the center of the anchor bar:  

N/A  
Distance ≤ 25mm = PASS  Distance > 25mm = FAIL (S9.5(a)(3))  

CONSPICUITY (No Circles)  
Is the anchor bar or guide visible when viewed from a point 30° above the horizontal in a vertical longitudinal plane bisecting the anchor bar or guide?  

YES = PASS  NO = FAIL (S9.5(b))  
If there is a guide, is it permanently attached?  

N/A  
YES = PASS  NO = FAIL (S9.5(b))  

DATA SHEET 5 CONTINUED  
DESIGNATED SEATING POSITION:  ROW 2 LEFT SIDE (DSP A)  
Is there a cap or cover over the anchor bar?  

NO  
If YES, is the cap or cover marked with words, symbols or pictograms?  

If NO = FAIL (S9.5(b))  
If YES, is the meaning of the words, symbols or pictograms explained in the owner's manual?  

YES = PASS  NO = FAIL (S9.5(b))  
If NO, there are no requirements for having a cover.  

NO REQUIREMENTS
DATA SHEET 5A
CONSPICUITY AND MARKING OF LOWER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV
VEH. NHTSA NO: C50303; VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04; TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: ROW 2 RIGHT SIDE (DSP B)

MARKING (Circles)

Diameter of the circle: N/A
Diameter ≥13mm = PASS Diameter <13mm = FAIL (S9.5(a)(1))

Does the circle have words, symbols or pictograms? N/A
NO skip to next question
YES, are the meaning of the words, symbols or pictograms explained in the owner's manual?

YES = PASS NO = FAIL (S9.5(a)(2))

Where is the circle located? Seat back or seat Cushion: N/A

For circles on seat backs, vertical distance from the center of the circle to the center of the anchor bar: N/A
Distance between 50&100mm = PASS Other Distance=FAIL (S9.5(a)(3))

For circles on seat cushions, horizontal distance from the center of the circle to the center of the bar: N/A
Distance between 75&125mm= PASS Other Distance=FAIL (S9.5(a)(3))

Lateral distance from the center of the circle to the center of the anchor bar: N/A
Distance≤25mm = PASS Distance >25mm = FAIL (S9.5(a)(3))

CONSPICUITY (No Circles)

Is the anchor bar or guide visible when viewed from a point 30° above the horizontal in a vertical longitudinal plane bisecting the anchor bar or guide? YES
YES = PASS NO = FAIL (S9.5(b))

If there is a guide, is it permanently attached? N/A
YES = PASS NO = FAIL (S9.5(b))

DATA SHEET 5A CONTINUED
DESIGNATED SEATING POSITION: **ROW 2 RIGHT SIDE (DSP B)**

Is there a cap or cover over the anchor bar? **NO**

If YES, is the cap or cover marked with words, symbols or pictograms? **__**

If NO = FAIL (S9.5(b))

If YES, is the meaning of the words, symbols or pictograms explained in the owner's manual?

YES = PASS  NO = FAIL (S9.5(b))

If NO, there are no requirements for having a cover. **NO REQUIREMENTS**

RECORDED BY: ___________________________ DATE: __09/29/05________

APPROVED BY: ___________________________

DATA SHEET 5B
CONSPICUITY AND MARKING OF LOWER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: **2005 DODGE GRAND CARAVAN MPV**
VEH. NHTSA NO: C50303; VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04; TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: __ROW 3 CENTER (DSP C)___

MARKING (Circles)

Diameter of the circle: __N/A__

- Diameter ≥13mm = PASS
- Diameter <13mm = FAIL (S9.5(a)(1))

Does the circle have words, symbols or pictograms? __N/A__

- NO, skip to next question
- YES, are the meaning of the words, symbols or pictograms explained in the owner’s manual?
  - __N/A__
  - YES = PASS
  - NO = FAIL (S9.5(a)(2))

Where is the circle located? Seat back or seat Cushion: __N/A__

- For circles on seat backs, vertical distance from the center of the circle to the center of the anchor bar: __N/A__
  - Distance between 50 & 100mm = PASS
  - Other Distance = FAIL (S9.5(a)(3))

- For circles on seat cushions, horizontal distance from the center of the circle to the center of the bar: __N/A__
  - Distance between 75 & 125mm = PASS
  - Other Distance = FAIL (S9.5(a)(3))

- Lateral distance from the center of the circle to the center of the anchor bar: __N/A__
  - Distance ≤25mm = PASS
  - Distance >25mm = FAIL (S9.5(a)(3))

CONSPICUITY (No Circles)

Is the anchor bar or guide visible when viewed from a point 30° above the horizontal in a vertical longitudinal plane bisecting the anchor bar or guide? __YES__

- YES = PASS
- NO = FAIL (S9.5(b))

If there is a guide, is it permanently attached? __N/A__

- YES = PASS
- NO = FAIL (S9.5(b))

DATA SHEET 5B CONTINUED

DESIGNATED SEATING POSITION: __ROW 3 CENTER (DSP C)___

Is there a cap or cover over the anchor bar? __NO__

- If YES, is the cap or cover marked with words, symbols or pictograms? __________
If NO = FAIL (S9.5(b))
If YES, is the meaning of the words, symbols or pictograms explained in the owner's manual?

YES = PASS        NO = FAIL (S9.5(b))
If NO, there are no requirements for having a cover. **NO REQUIREMENTS**

RECORDED BY: ____________________________  DATE: 09/29/05

APPROVED BY: ____________________________

DATA SHEET 6
STRENGTH OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV
VEH. NHTSA NO: C50303; VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04; TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE
TEST NO: 5325

DESIGNATED SEATING POSITION: ROW 3 CENTER (DSP C)

SFAD: 2

Seat Back Angle: 20°

Location of seat back angle measurement: 2D Template

Head Restraint Position: UP

D-ring Position: N/A

Force at Point X (lower front crossmember for SFAD2) while securing belts and tether: 135 N

Lap belt tension: N/A (SFAD 1 only)

Tether strap tension: 65 N

Angle (measured above the horizontal at 500 N): 9.5°

Separation of tether anchorage at 500 N: NO

NO = PASS

YES = FAIL (S6.3.1)

Force application rate: 575 N/S

Time to reach maximum force (24-30 s): 26

Maximum force (14,950 N ± 50 N): 14,954 N

Tested simultaneously with another DSP? NO

COMMENTS: Displacement at maximum load 47 mm.

RECORDED BY: ___________________________ DATE: 09/29/05

APPROVED BY: ___________________________ DATA SHEET 6A

STRENGTH OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV

VEH. NHTSA NO: C50303; VIN: 2D4GP24R65R203599

VEH. BUILD DATE: 06/04 ; TEST DATE: SEPTEMBER 29, 2005

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: GRANT FARRAND, JIMMY LATANE
TEST NO: 5327

DESIGNATED SEATING POSITION: ROW 2 RIGHT SIDE (DSP B)

SFAD: 2

Seat Back Angle: 20°

Location of seat back angle measurement: 2D Template

Head Restraint Position: UP

D-ring Position: N/A

Force at Point X (lower front crossmember for SFAD2) while securing belts and tether: 135 N

Lap belt tension: N/A (SFAD 1 only)

Tether strap tension: 67 N

Angle (measured above the horizontal at 500 N): 10°

Separation of tether anchorage at 500 N: NO

NO = PASS  YES = FAIL (S6.3.1)

Force application rate: 575 N/S

Time to reach maximum force (24-30 s): 26

Maximum force (14,950 N ± 50 N): 14,945 N

Tested simultaneously with another DSP? NO

COMMENTS: Displacement at maximum load 97 mm.

RECORDED BY: ........................................ DATE: 09/29/05

APPROVED BY: ........................................

DATA SHEET 7

STRENGTH OF LOWER ANCHORAGES (Forward Force)

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV

VEH. NHTSA NO: C50303;  VIN: 2D4GP24R65R203599

VEH. BUILD DATE: 06/04;  TEST DATE: SEPTEMBER 28, 2005

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBServers: GRANT FARRAND, JIMMY LATANE
TEST NO: 5326

DESIGNATED SEATING POSITION: ROW 2 LEFT SIDE (DSP A)

Seat Back Angle: 20°

Location of seat back angle measurement: 2D Template

Head Restraint Position: UP

Force at lower front crossmember for SFAD2 while tightening rearward extensions: 135 N

Angle (measured above the horizontal at 500 N): 10°

Force application rate: 423 N/S

Time to reach maximum force (24-30 s): 26

Maximum force (10,950 N ± 50 N): 10,973 N

Displacement, H1 (at 500 N): 0.0

Displacement, H2 (at maximum load): 92 mm

Displacement of Point X: 92 mm (H2-H1)
   Displacement > 175 mm = FAIL (S9.4.1(a))

Tested simultaneously with another DSP? NO

Distance between adjacent DSP’s: 800 mm

COMMENTS:

RECORDED BY: ___________________________  DATE: 09/29/05

APPROVED BY: ___________________________
DATA SHEET 8
OWNER'S MANUAL

VEH. MOD YR/MAKE/MODEL/BODY: 2005 DODGE GRAND CARAVAN MPV
VEH. NHTSA NO: C50303; VIN: 2D4GP24R65R203599
VEH. BUILD DATE: 06/04; TEST DATE: SEPTEMBER 29, 2005
TEST LABORATORY: GENERAL TESTING LABORATORIES
OBSERVERS: GRANT FARRAND, JIMMY LATANE

Description of which DSP's are equipped with tether anchorages and child restraint anchorage systems: __YES__

PASS X  FAIL __________

Step-by-step instructions for properly attaching a child restraint system's tether strap to the tether anchorage. Diagrams are required: __YES__

PASS X  FAIL __________

Description of how to properly use the tether anchorage and lower anchor bars: __YES__

PASS X  FAIL __________

If the lower anchor bars are marked with a circle, an explanation of what the circle indicates as well as any words or pictograms: __N/A__

PASS N/A  FAIL N/A

COMMENTS:

RECORDED BY: ____________________  DATE: __09/29/05__

APPROVED BY: ____________________
### SECTION 4

#### INSTRUMENTATION AND EQUIPMENT LIST

<table>
<thead>
<tr>
<th>EQUIPMENT</th>
<th>DESCRIPTION</th>
<th>MODEL/ SERIAL NO.</th>
<th>CAL. DATE</th>
<th>NEXT CAL. DATE</th>
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<td>COMPUTER</td>
<td>AT&amp;T</td>
<td>486DX266</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
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<td>LOAD CELL</td>
<td>INTERFACE</td>
<td>496</td>
<td>01/05</td>
<td>01/06</td>
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<td>SERVO SYSTEMS</td>
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<td>BEFORE USE</td>
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<td>GTL CRF</td>
<td>BEFORE USE</td>
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<td>FORCE APPLICATION DEVICE</td>
<td>GTL SFAD 1</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
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<tr>
<td>SFAD 2</td>
<td>FORCE APPLICATION DEVICE</td>
<td>GTL SFAD 2</td>
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</table>
SECTION 5
PHOTOGRAPHS
2005 DODGE GRAND CARAVAN
NHTSA NO. C50303
FMVSS NO. 225

FIGURE 6.5
CLOSE-UP VIEW OF VEHICLE CERTIFICATION LABEL
The diagram contains the tire loading information for a vehicle. The maximum weight capacity is indicated for different tire load ranges. The label advises that the load range limit of the tire load range should not be exceeded.

<table>
<thead>
<tr>
<th>Tire Load Range</th>
<th>Right Front</th>
<th>Right Rear</th>
<th>Left Front</th>
<th>Left Rear</th>
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<tr>
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<td>112/115</td>
<td>112/115</td>
<td>112/115</td>
<td>112/115</td>
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<tr>
<td>Load Range 2</td>
<td>108/112</td>
<td>108/112</td>
<td>108/112</td>
<td>108/112</td>
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<tr>
<td>Load Range 3</td>
<td>104/108</td>
<td>104/108</td>
<td>104/108</td>
<td>104/108</td>
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<td>Load Range 4</td>
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</tbody>
</table>

For additional information, refer to the owner's manual.
FIGURE 5.8
ROW 2, RIGHT SIDE SEAT EQUIPPED WITH CRAS
SECTION 6
PLOTS
GTL 532S, NHTSA C50303

225, Top Tether, Row 3 Center Position.

Force in Newtons (Thousands)

Time in Seconds
GTL 5325, NHTSA C50303

225, Top Tether, Row 3 Center Position.

Displacement in Millimeters

(Thousands) Force in Newtons
GTL 5326, NHTSA C50303.

225, Lower Anchors, Row 2 Left Side.

Force in Newtons (Thousands)

Time in Seconds
GTL 5327, NHTSA C50303

225, Top Tether, Row 2 Right Side.
Airbag Light
You will want to have the airbags ready to inflate for your protection in a collision. While the airbag system is designed to be maintenance free, if any of the following occurs, have an authorized dealer service the system immediately.

- The AIRBAG light does not come on or flickers during the 6 to 8 seconds when the ignition switch is first turned on.
- The light remains on or flickers after the 6 to 8 second interval.
- The light flickers or comes on and remains on while driving.

DaimlerChrysler Corporation Integrated Child Seat — If Equipped
Operating instructions for this seat are included with the seat. If the instructions are not with the seat or in the Owner's Manual Package, replacement instructions can be obtained.

To obtain Integrated Child Seat replacement instructions:
Use the order form at the back of this manual and specify publication number 81-016-1950.

Child Restraint
Everyone in your vehicle needs to be buckled up at all times — babies and children, too. Every state in the United States and all Canadian provinces require that small children ride 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 rear seat. According to crash statistics, children are safer when properly restrained in the rear seats, rather than in the front.

**WARNING:**
In a collision, an unrestrained child, even a tiny baby, can become a missile inside the vehicle. The force required to hold even an infant on your lap could become so great that you could not hold the child, no matter how strong you are. The child and others could be badly injured. Any child riding in your vehicle should be in a proper restraint for the child's size.

Infants and Small Children
There are different sizes and types of restraints for children from newborn size to the child almost large enough for an adult safety belt. Always check the child seat owner's manual to ensure you have the right seat for your child. Use the restraint that is correct for your child:

- Safety experts recommend that children ride rearward-facing in the vehicle until they are at least one year old and weigh at least 20 lbs (9 kg). Two types of child restraints can be used rearward-facing: infant carriers and "convertible" child seats. Both types of child restraints are held in the vehicle by the lap/shoulder belt or the LATCH child restraint anchorages system. Refer to "Lower Anchors and Tethers for Children (LATCH)" later in this section.
THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

- The infant carrier is only used rearward-facing in the vehicle. It is recommended for children who weigh up to about 20 lbs (9 kg). "Convertible" child seats can be used either rearward-facing or forward-facing in the vehicle. 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 less than one year old.

- Rearward-facing child seats must NEVER be used in the front seat of a vehicle with a front passenger airbag. An airbag deployment could cause severe injury or death to infants in this position.

- Children who weigh more than 20 lbs (9 kg) and who are older than one year can 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 to 40 lbs (9 to 18 kg) and who are older than one year. These child seats are also held in the vehicle by the lap/shoulder belt or the LATCH child restraint anchorage system. Refer to “Lower Anchors and Tether for CHILDren (LATCH)” later in this section.

- The belt-positioning booster seat is for children weighing more than 40 lbs (18 kg), but who are still too small to fit the vehicle’s seat belts properly. If the child can not sit with knees bent over the vehicles seat cushion while the child’s back is against the seat back, they should use a belt-positioning booster seat. The child and booster seat are held in the vehicle by the lap/shoulder belt. (Some booster seats are equipped with a front shield and are held in the vehicle by the lap portion.)

NOTE: For additional information, refer to www.seatcheck.org.

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WARNING

- Improper installation can lead to failure of an infant or child restraint. It could come loose in a collision. The child could be badly injured or killed. Follow the manufacturer’s directions exactly when installing an infant or child restraint.

- A rearward facing child restraint should only be used in a rear seat. A rearward facing child restraint in the front seat may be struck by a deploying passenger airbag which may cause severe or fatal injury to the infant.

Here are some tips on getting the most out of your child restraint:

- Before buying any restraint system, make sure that it has a label certifying that it meets all applicable Safety Standards. We also recommend that you make sure that you can install the child restraint in the vehicle where you will use it, before you buy it.

- The restraint must be appropriate for your child’s weight and height. Check the label on the restraint for weight and height limits.

- Carefully follow the instructions that come with the restraint. If you install the restraint improperly, it may not work when you need it.

The passenger seat belts are equipped with cinching latch plates, which are designed to keep the lap portion tight around the child restraint so that it is not necessary to use a locking clip. 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 loosen with time, so check the belt occasionally and pull it tight if necessary.
• In the rear seat, you may have trouble tightening the lap/shoulder belt on the child restraint because the buckle or latch plate is too close to the belt path opening on the restraint. Disconnect the latch plate from the buckle and twist the short buckle end of the belt several times to shorten it. Insert the latch plate into the buckle with the release button facing out.
• If the belt still can’t be tightened, or if pulling and pushing on the restraint loosens the belt, disconnect the latch plate from the buckle, turn the buckle 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.
• Buckle the child into the seat according to the child restraint manufacturer’s directions.

• When your child restraint is not in use, secure it in the vehicle with the seat belt or remove it from the vehicle. Don’t leave it loose in the vehicle. In a sudden stop or collision, it could strike the occupants or seatbacks and cause serious personal injury.

**Lower Anchors and Tether for Children (LATCH)**
Each vehicle, except commercial cargo vehicles, is equipped with the child restraint anchorage system called LATCH, which stands for Lower Anchors and Tether for Children. Two LATCH child restraint anchorage systems are installed on all second-row seats. Second-row seats also feature tether strap anchorages, located in the rear surface of the seatback. In addition, all 3-passenger bench seats are equipped with a child restraint tether anchor at the center seating position.

---

**WARNING**
An incorrectly anchored tether 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 tether strap.
Child restraint systems having attachments designed to connect to the lower anchorages are now available. Child restraints having tether straps and hooks for connection to the seatback tether anchorage have been available for some time. In fact, many child restraint manufacturers will provide add-on tether strap kits for some of their older products.

**NOTE:** If your child restraint seat is not LATCH compatible, install the restraint using the vehicle seat belts.

Fleet vehicles equipped with the LATCH system on the 3-passenger bench seat must have the seat adjusted to the full rear position on the tracks when the LATCH system is used. Also, when using the LATCH system, be sure the seatback is two clicks rear of its full upright position.

Because the lower anchorages are to be introduced to passenger-carrying vehicles over a period of years, child restraint systems having attachments for those anchorages will continue to have features for installation in vehicles using the lap or lap/shoulder belt. They will also have tether straps, and you are urged to take advantage of all of the available attachments provided with your child restraint in any vehicle.

**Installing the Child Restraint System**

If your fleet vehicle is equipped with LATCH anchorages on the 3-passenger bench seat, do not install three child restraints at the same time in this seat. The anchorages in this seat are not designed to restrain three child restraints at one time. Instead, you may install one child restraint at the center position, or one child restraint at each of the right and left positions.

---

**WARNING**

**Fleet Vehicles Only:**

Do not install child restraint systems equipped with LATCH attachments at all three seating positions in the seat at one time. The LATCH anchorages in this seat are designed to restrain no more than two child restraints at a time in the event of a collision. Failure to follow this may result in serious or fatal injury.

We urge that you carefully follow the directions of the manufacturer when installing your child restraint. Many, but not all, restraint systems will be equipped with separate straps on each side, with each having a hook or connector and a means for adjusting the tension in the strap. Forward-facing toddler restraints and some rearward-facing infant restraints will also be equipped with a tether strap, a hook and means for adjusting the tension in the strap.

---

**WARNING**

In general, you will first loosen the adjusters on the lower straps and tether straps so that you can more easily attach the hook or connector to the lower anchorages and tether anchorages. Then tighten all three straps as you push the child restraint rearward and downward into the seat.

Not all child restraint systems will be installed as we have described here. Again, carefully follow the instructions that come with the child restraint system.

**WARNING**

Improper installation of a child restraint to the LATCH anchorages can lead to failure of an infant or child restraint. The child could be badly injured or killed. Follow the manufacturer's directions exactly when installing an infant or child restraint.
Children Too Large For Booster Seats

Children who are large enough to wear the shoulder belt comfortably, and whose legs are long enough to bend over the front of the seat when their back is against the seatback, should use the lap/shoulder belt in a rear seat.

- Make sure that the child is upright in the seat.
- The lap portion should be low on the hips and as snug as possible.
- Check belt fit periodically. A child’s squirming 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. If this doesn’t help, move the child to the center rear seating position and use the lap belt. Never allow a child to put the shoulder belt under an arm or behind their back.

Transporting Pets

Airbags deploying in the front seat could harm your pet. An unrestrained pet could be thrown about and possibly injured, or injure a passenger during panic braking or in a collision.

Pets should be restrained in the rear seat in pet harnesses or pet carriers that are secured by seat belts.

REAR SEAT DELETE FEATURE (COMMERCIAL VEHICLES ONLY) — IF EQUIPPED

Commercial cargo vehicles are not designed for use as a family vehicle and are not intended for carrying children in the front passenger seat. However, if you must carry a child in a vehicle without a rear seat, the passenger seat should be moved to the full rearward position and the child must be in a proper restraint system based on its age, size and weight. NEVER carry a child in a rear facing infant carrier in a vehicle without rear seats. In an accident, serious injury or death may occur from the deploying passenger air bag.

This vehicle is equipped with a child restraint tether anchor located on the floor, behind the front passenger seat. Use this tether anchor to secure only forward facing child restraints equipped with an upper tether strap.

**WARNING**

Rear Facing Infant restraints must never be secured in the passenger seat of a vehicle with a passenger airbag. In an accident a passenger airbag may deploy causing severe injury or death to infants riding in rear facing infant restraints.

Restraining Infants and Small Children with Seat Delete Feature (Commercial Vehicles Only)

There are different sizes and types of restraints for children from newborn size to the child almost large enough for an adult safety belt. Use the restraint that is correct for your child:

- The rearward-facing infant carrier is for babies weighing up to about 20 lbs (9 kg), and less than one year old. **THIS TYPE OF SEAT CANNOT BE USED IN A VEHICLE EQUIPPED WITH THE REAR SEAT DELETE FEATURE (Commercial Vehicles Only).**
- The forward-facing child seat is for children from about 20 to 40 lbs (9 to 18 kg), and more than one year old.
THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

- A "convertible" child seat, one that is designed to be used for children who are too heavy for a rear facing infant seat, may be used in the forward facing position only. It must never be installed facing to the rear in a vehicle equipped with the rear seat delete feature (Commercial Vehicles Only). When a convertible seat is properly installed forward facing, the vehicle seat should be adjusted to the rear most position.

- Children more than 40 lbs (18 kg) should be secured in the passenger seat in a child restraint or belt-positioning booster seat with the seat adjusted to the rear most position. Older children who do not use child restraints or belt-positioning booster seats should ride properly buckled in the passenger seat with the seat adjusted to the rear most position. Never allow children to slide the shoulder belt behind them or under their arm.

THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

2. Extend the child restraint tether anchor forward towards the front passenger seat.

3. Follow the child restraint manufacturer's directions for proper use of connecting the child restraint to the extended tether strap.

4. If necessary, raise the passenger seat head restraint to allow the tether strap to be routed under the head restraint.

5. Route the tether strap beneath the head restraint between the two head restraint posts. Ensure that the child restraint tether strap is centered between the two head restraint posts.

6. Using the hook attached to the child restraint tether strap, attach the child restraint tether strap to the metal ring on the vehicle tether anchor.

Tether Installation For Commercial Vehicles With Rear Seat Delete

To secure the child restraint upper tether strap to the vehicle, follow the instructions shown:

1. Locate the child restraint tether anchor on the floor just behind the front passenger seat.
7. Following the child seat manufacturer’s instructions, tighten the child restraint tether strap.

8. If necessary, reposition the seat head restraint.

9. Inspect the tether anchor strap for nicks, abrasions, discoloration, and loose threads. If these, or any other condition that might affect the performance of the strap is observed, DO NOT USE. Contact your local DaimlerChrysler dealership for a replacement part.

NOTE: Store the child restraint tether strap in its original position when not in use.
APPENDIX B
MANUFACTURER’S DATA
Table I. Seating Positions¹ and Torso Angles

<table>
<thead>
<tr>
<th></th>
<th>Left (Driver Side)</th>
<th>Center (if any)</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>358.9mm</td>
<td>N/A</td>
<td>358.9mm</td>
</tr>
<tr>
<td>A2</td>
<td>335.5mm</td>
<td>N/A</td>
<td>335.5mm</td>
</tr>
<tr>
<td>A3</td>
<td>279.5mm</td>
<td>288.4mm</td>
<td>279.5mm</td>
</tr>
<tr>
<td>B</td>
<td>303.1mm</td>
<td>N/A</td>
<td>303.1mm</td>
</tr>
<tr>
<td>C</td>
<td>1162.1mm</td>
<td>N/A</td>
<td>1162.1mm</td>
</tr>
<tr>
<td>D</td>
<td>2057.1mm</td>
<td>2047.1mm</td>
<td>2057.1mm</td>
</tr>
<tr>
<td>Torso Angle</td>
<td>Front Row</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(degree)</td>
<td>18 deg</td>
<td>N/A</td>
<td>18 deg</td>
</tr>
<tr>
<td></td>
<td>Second Row</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>22 deg</td>
<td>N/A</td>
<td>22 deg</td>
</tr>
<tr>
<td></td>
<td>Third Row</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>25 deg</td>
<td>25 deg</td>
<td>25 deg</td>
</tr>
</tbody>
</table>

Note: ¹ All dimensions are in mm. If not, provide the unit used.
2005 Dodge Grand Caravan "Stow and go" FORM 14

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

Model Year: 2005  Make: Dodge  Model: Grand Caravan  Body Style: CYC
Seat Style: Front Row: Bucket  Second Row: Bucket  Third Row: Split Bench

Front
Second
Third

Driver's seat front outboard seat adjustor anchorage
### Table 2. Seating Reference Point and Tether Anchorage Locations

<table>
<thead>
<tr>
<th>Seating Reference Point (SRP)</th>
<th>Distance from Driver’s front outboard seat adjuster anchorage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Front Row</strong></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>303.1mm</td>
</tr>
<tr>
<td>E1</td>
<td>190.0mm</td>
</tr>
<tr>
<td>B2</td>
<td>N/A</td>
</tr>
<tr>
<td>E2</td>
<td>N/A</td>
</tr>
<tr>
<td>B3</td>
<td>303.1mm</td>
</tr>
<tr>
<td>E3</td>
<td>1028.0mm</td>
</tr>
<tr>
<td><strong>Second Row</strong></td>
<td></td>
</tr>
<tr>
<td>C1</td>
<td>1162.1mm</td>
</tr>
<tr>
<td>F1</td>
<td>203.0mm</td>
</tr>
<tr>
<td>C2</td>
<td>N/A</td>
</tr>
<tr>
<td>F2</td>
<td>N/A</td>
</tr>
<tr>
<td>C3</td>
<td>1162.1mm</td>
</tr>
<tr>
<td>F3</td>
<td>1003.0mm</td>
</tr>
<tr>
<td><strong>Third Row</strong></td>
<td></td>
</tr>
<tr>
<td>D1</td>
<td>2057.1mm</td>
</tr>
<tr>
<td>G1</td>
<td>247.5mm</td>
</tr>
<tr>
<td>D2</td>
<td>2047.1mm</td>
</tr>
<tr>
<td>G2</td>
<td>603.0mm</td>
</tr>
<tr>
<td>D3</td>
<td>2057.1mm</td>
</tr>
<tr>
<td>G3</td>
<td>958.5mm</td>
</tr>
</tbody>
</table>

**Note:** 1. Use the center of anchorage.
Model Year: 2005  Make:  Dodge  Model:  Grand Caravan  Body Style:  CYC

Seat Style:  Front Row:  Bucket  Second Row:  Bucket  Third Row:  Split Bench

Note: 1. The location shall be measured at the center of the bar.
Table 3. Seating Reference Point and Tether Anchorage Locations

<table>
<thead>
<tr>
<th>Seating Reference Point (SRP)</th>
<th>Distance from SRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Row</td>
<td></td>
</tr>
<tr>
<td>H1</td>
<td>N/A</td>
</tr>
<tr>
<td>K1</td>
<td>N/A</td>
</tr>
<tr>
<td>H2</td>
<td>N/A</td>
</tr>
<tr>
<td>K2</td>
<td>N/A</td>
</tr>
<tr>
<td>H3</td>
<td>N/A</td>
</tr>
<tr>
<td>K3</td>
<td>N/A</td>
</tr>
<tr>
<td>Second Row</td>
<td></td>
</tr>
<tr>
<td>I1</td>
<td>217.35mm</td>
</tr>
<tr>
<td>L1</td>
<td>0mm</td>
</tr>
<tr>
<td>I2</td>
<td>N/A</td>
</tr>
<tr>
<td>L2</td>
<td>N/A</td>
</tr>
<tr>
<td>I3</td>
<td>217.35mm</td>
</tr>
<tr>
<td>L3</td>
<td>0mm</td>
</tr>
<tr>
<td>Third Row</td>
<td></td>
</tr>
<tr>
<td>J1</td>
<td>N/A</td>
</tr>
<tr>
<td>M1</td>
<td>N/A</td>
</tr>
<tr>
<td>J2</td>
<td>188.60mm</td>
</tr>
<tr>
<td>M2</td>
<td>92.16mm</td>
</tr>
<tr>
<td>J3</td>
<td>N/A</td>
</tr>
<tr>
<td>M3</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Note: 1. Use the center of anchorage.
2005 Dodge Grand Caravan “Stow and go” FORM 14

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

Model Year: 2005 Make: Dodge Model: Grand Caravan Body Style: CYC
Seat Style: Front Row: Bucket Second Row: Bucket Third Row: Split Bench

LEFT SIDE VIEW OF TEST VEHICLE

Table 4. Vertical Dimension For The Tether Anchorage

<table>
<thead>
<tr>
<th>Seating Row</th>
<th>Vertical Distance from Seating Reference Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Row</td>
<td>N1 (Driver) N/A</td>
</tr>
<tr>
<td></td>
<td>N2 (Center) N/A</td>
</tr>
<tr>
<td></td>
<td>N3 (Right) N/A</td>
</tr>
<tr>
<td>Second Row</td>
<td>O1 (Left) -118.53mm</td>
</tr>
<tr>
<td></td>
<td>O2 (Center) N/A</td>
</tr>
<tr>
<td></td>
<td>O3 (Right) -118.53mm</td>
</tr>
<tr>
<td>Third Row</td>
<td>P1 (Left) N/A</td>
</tr>
<tr>
<td></td>
<td>P2 (Center) -154.55mm</td>
</tr>
<tr>
<td></td>
<td>P3 (Right) N/A</td>
</tr>
</tbody>
</table>

Note: 1. All dimensions are in mm. If not, provide the unit used.
### Test Procedures Used for Compliance Tests

#### Tether Anchorages

<table>
<thead>
<tr>
<th>Seating Location</th>
<th>FMVSS Section(s) - Req.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Allowed until 9/1/04</td>
</tr>
<tr>
<td></td>
<td>S6.3.4 (10 kN)</td>
</tr>
<tr>
<td></td>
<td>S6.3.4.1 (5.3 kN)</td>
</tr>
<tr>
<td></td>
<td>Required after 9/1/04</td>
</tr>
<tr>
<td></td>
<td>S6.3.1 (15 kN)</td>
</tr>
<tr>
<td>Front</td>
<td>Driver</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Center (if any)</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Right (if any)</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>Second</td>
<td>Left</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Center</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Right (if any)</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>Third</td>
<td>Left</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Center</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Right</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>Fourth</td>
<td>Left</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Center</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Right</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Lower Anchorages

<table>
<thead>
<tr>
<th>Seating Location</th>
<th>FMVSS Section(s) - Req.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Allowed until 9/1/04</td>
</tr>
<tr>
<td></td>
<td>S15.3 (8 kN / 5 kN)</td>
</tr>
<tr>
<td></td>
<td>Required after 9/1/04</td>
</tr>
<tr>
<td></td>
<td>S9.4 (11 kN / 5 kN)</td>
</tr>
<tr>
<td>Front</td>
<td>Driver</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Center (if any)</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Right (if any)</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>Second</td>
<td>Left</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Center</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Right (if any)</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>Third</td>
<td>Left</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Center</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Right</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>Fourth</td>
<td>Left</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Center</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Right</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>
Dodge Grand Caravan Stow-and-Go
CRF Installation Measurement

<table>
<thead>
<tr>
<th></th>
<th>Driver Side</th>
<th>Center</th>
<th>Passenger Side</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Second Row Seats</strong></td>
<td>Pitch: 16.0</td>
<td>N/A</td>
<td>16.0</td>
</tr>
<tr>
<td></td>
<td>Roll: 0.1</td>
<td>N/A</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>Yaw: 0</td>
<td>N/A</td>
<td>0</td>
</tr>
<tr>
<td><strong>Third Row Seats</strong></td>
<td>Pitch: N/A</td>
<td>20.3</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Roll: N/A</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Yaw: N/A</td>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

All measurements are in degrees