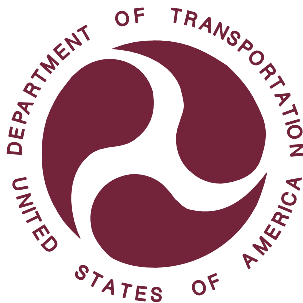


REPORT NUMBER 225-GTL-07-005

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

**VOLKSWAGEN AG GERMANY  
2007 VOLKSWAGEN RABBIT, PASSENGER CAR  
NHTSA NO. C75800**

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



APRIL 18, 2008

FINAL REPORT

PREPARED FOR

**U. S. DEPARTMENT OF TRANSPORTATION  
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION  
ENFORCEMENT  
OFFICE OF VEHICLE SAFETY COMPLIANCE  
1200 NEW JERSEY AVE., SE  
WASHINGTON, D.C. 20590**

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Prepared By: Debbie Messick  
Approved By: Shanté Brown  
Approval Date: 4/18/08

**FINAL REPORT ACCEPTANCE BY OVSC:**

Accepted By: Edward E. Chan  
Acceptance Date: 4/18/08

1. Report No. 225-GTL-07-005	2. Government Accession No. N/A	3. Recipient's Catalog No. N/A
4. Title and Subtitle Final Report of FMVSS 225 Compliance Testing of 2007 VOLKSWAGEN RABBIT, PASSENGER CAR NHTSA No. C75800		5. Report Date April 18, 2008
		6. Performing Organ. Code GTL
7. Author(s) Grant Farrand, Project Engineer Debbie Messick, Project Manager		8. Performing Organ. Rep# GTL-DOT-07-225-005
9. Performing Organization Name and Address General Testing Laboratories, Inc. 1623 Leedstown Road Colonial Beach, Va 22443		10. Work Unit No. (TRAIS) N/A
		11. Contract or Grant No. DTNH22-06-C-00032
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Admin. Enforcement Office of Vehicle Safety Compliance (NVS-220) 1200 New Jersey Ave., S.E., Washington, DC 20590		13. Type of Report and Period Covered Final Test Report November 8, 2007 – April 2, 2008
		14. Sponsoring Agency Code NVS-221
15. Supplementary Notes		
16. Abstract Compliance tests were conducted on the subject, 2007 Volkswagen Rabbit Passenger Car 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		
17. Key Words Compliance Testing Safety Engineering FMVSS 225		18. Distribution Statement Copies of this report are available from NHTSA Technical Information Services (TIS) Room W45-212 (NPO-411) 1200 New Jersey Ave., S.E. Washington, DC 20590 Telephone No. (202) 366-4947
19. Security Classif. (of this report) UNCLASSIFIED	21. No. of Pages 92	22. Price
20. Security Classif. (of this page) UNCLASSIFIED		

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## SECTION 1

### PURPOSE OF COMPLIANCE TEST

#### 1.0 PURPOSE OF COMPLIANCE TEST

A 2007 Volkswagen Rabbit Passenger Car 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 2007 Volkswagen Rabbit Passenger Car. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: WVWCR71K67W131176

B. NHTSA No.: C75800

C. Manufacturer: VOLKSWAGEN AG GERMANY

D. Manufacture Date: 12/06

#### 1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 225 testing on November 8, 2007 through April 2, 2008.

## 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 2007 VOLKSWAGEN RABBIT PASSENGER CAR appears 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 2007 Volkswagen Rabbit Passenger Car.



DATA SHEET 1  
SUMMARY OF RESULTS

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: NOVEMBER 8, 2007-APRIL 2, 2008  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

**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**

	PASS	FAIL
DSP a	<u>  X  </u>	<u>      </u>
DSP b	<u>  X  </u>	<u>      </u>
DSP c	<u>  X  </u>	<u>      </u>

**C. LOCATION OF TETHER ANCHORAGES**

	PASS	FAIL
DSP a	<u>  X  </u>	<u>      </u>
DSP b	<u>  X  </u>	<u>      </u>
DSP c	<u>  X  </u>	<u>      </u>

**D. LOWER ANCHORAGE DIMENSIONS**

	PASS	FAIL
DSP a	<u>  X  </u>	<u>      </u>
DSP b	<u>  N/A  </u>	<u>  N/A  </u>
DSP c	<u>  X  </u>	<u>      </u>

DATA SHEET 1 CONTINUED  
SUMMARY OF RESULTS

**E. CONSPICUITY AND MARKING OF LOWER ANCHORAGES**

	PASS	FAIL
DSP a	<u>  X  </u>	<u>      </u>
DSP b	<u>  N/A  </u>	<u>  N/A  </u>
DSP c	<u>  X  </u>	<u>      </u>

**F. STRENGTH OF TETHER ANCHORAGES**

	PASS	FAIL
DSP a	<u>  X  </u>	<u>      </u>
DSP b	<u>  N/A  </u>	<u>  N/A  </u>
DSP c	<u>  N/A  </u>	<u>  N/A  </u>

**G. STRENGTH OF LOWER ANCHORAGES (Forward Force)**

	PASS	FAIL
DSP a	<u>  N/A  </u>	<u>  N/A  </u>
DSP b	<u>  N/A  </u>	<u>  N/A  </u>
DSP c	<u>  N/A  </u>	<u>  N/A  </u>

**H. STRENGTH OF LOWER ANCHORAGE (Lateral Force)**

	PASS	FAIL
DSP a	<u>  N/A  </u>	<u>  N/A  </u>
DSP b	<u>  N/A  </u>	<u>  N/A  </u>
DSP c	<u>  N/A  </u>	<u>  N/A  </u>

**I. OWNER'S MANUAL**

	PASS	FAIL
	<u>  X  </u>	<u>      </u>

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

NOTE: Strength of Row 2 Center and Right Side positions were not tested due to deformation of the right side seating area from prior 214 door crush test which would not allow re-installation of the right rear seat.

RECORDED BY:   G. Farrand    
APPROVED BY:   D. Messick  

DATE:   04/02/08

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

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: NOVEMBER 8, 2007  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

Number of rows of seats: 2  
 Number of rear, forward-facing designated seating positions: 3  
 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 and 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: 2

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

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:           N/A            
 YES = PASS                      NO = FAIL (S4.4(a)(1))

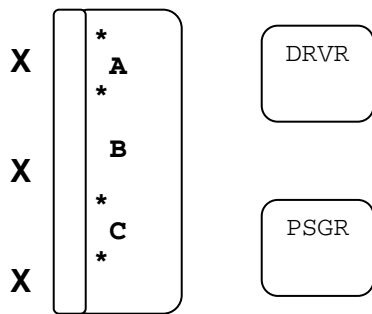
Number of provided tether anchorages (can be additional CRAS) indicate if a built-in child restraint is counted as tether anchorage (NOTE: a built-in child restraint can only be counted toward either the required number of CRAS or tether anchorages, not both):           3          

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

If the vehicle has 3 or more rear dsps 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 = Top Tether  
 \* = Lower Anchors

RECORDED BY:           G. Farrand          

DATE:           11/08/07          

APPROVED BY:           D. Messick

DATA SHEET 3  
LOCATION OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: NOVEMBER 8, 2007  
 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 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? YES

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  $60\text{ N} \pm 5\text{ N}$ )

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: G. FarrandDATE: 11/08/07APPROVED BY: D. Messick

DATA SHEET 3A  
LOCATION OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: NOVEMBER 8, 2007  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: ROW 2 CENTER POSITION (DSP B)

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? YES

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 CENTER POSITION (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  $\pm$  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: G. FarrandDATE: 11/08/07APPROVED BY: D. Messick



DATA SHEET 3B  
LOCATION OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: NOVEMBER 8, 2007  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: ROW 2 RIGHT SIDE (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? YES

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 2 RIGHT SIDE (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  $\pm$  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: G. FarrandDATE: 11/08/07APPROVED BY: D. Messick

DATA SHEET 4  
LOWER ANCHORAGE DIMENSIONS

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: NOVEMBER 5, 2007  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

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

Outboard Lower Anchorage bar diameter: 5.99 mm  
 $6\text{mm} \pm 0.1\text{ mm} = \text{PASS}$  Other size = FAIL (S9.1.1(a))

Inboard Lower Anchorage bar diameter: 6.00 mm  
 $6\text{mm} \pm 0.1\text{mm} = \text{PASS}$  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): 28 mm  
 $\text{Length} \geq 25\text{mm} = \text{PASS}$  Length <25mm = FAIL(S9.1.1(c) (i))

Length of the straight portion of the bar (inboard lower anchorage): 28 mm  
 $\text{Length} \geq 25\text{mm} = \text{PASS}$  Length <25mm = FAIL(S9.1.1(c) (i))

Length between the anchor bar supports (outboard lower anchorage): 28 mm  
 $\text{Length} \leq 60\text{mm} = \text{PASS}$  Length >60mm = FAIL(S9.1.1(c) (ii))

Length between the anchor bar supports (inboard lower anchorage): 28 mm  
 $\text{Length} \leq 60\text{mm} = \text{PASS}$  Length >60mm = FAIL(S9.1.1(c) (ii))

CRF Pitch angle: 12.2  
 $\text{Angle} = 15^\circ \pm 10^\circ = \text{PASS}$   $\text{Angle} \neq 15^\circ \pm 10^\circ = \text{FAIL (S9.2.1)}$

CRF Roll angle: 0.3  
 $\text{Angle} = 0^\circ \pm 5^\circ = \text{PASS}$   $\text{Angle} \neq 0^\circ \pm 5^\circ = \text{FAIL (S9.2.1)}$

CRF Yaw angle: 0.0  
 $\text{Angle} = 0^\circ \pm 10^\circ = \text{PASS}$   $\text{Angle} \neq 0^\circ \pm 10^\circ = \text{FAIL (S9.2.1)}$

Distance between point Z on the CRF and the front surface of outboard anchor bar: 55  
 $\text{Distance} \leq 70\text{mm} = \text{PASS}$  Distance > 70mm = FAIL

Distance between point Z on the CRF and the front surface of inboard anchor bar: 52  
 $\text{Distance} \leq 70\text{mm} = \text{PASS}$  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: 142 mm  
Distance  $\geq$  120mm = PASS      Distance < 120mm = FAILDistance between SgRP and the front surface of inboard anchor bar: 145 mm  
Distance  $\geq$  120mm = PASS      Distance < 120mm = FAILBased 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: G. FarrandDATE: 11/08/07APPROVED BY: D. Messick

DATA SHEET 4A  
LOWER ANCHORAGE DIMENSIONS

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: NOVEMBER 8, 2007  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

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

Outboard Lower Anchorage bar diameter: 6.00 mm  
 6mm ± 0.1 mm = PASS Other size = FAIL (S9.1.1(a))

Inboard Lower Anchorage bar diameter: 6.00 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): 28 mm  
 Length ≥25mm = PASS Length <25mm = FAIL(S9.1.1(c) (i))

Length of the straight portion of the bar (inboard lower anchorage): 28 mm  
 Length ≥25mm = PASS Length <25mm = FAIL(S9.1.1(c) (i))

Length between the anchor bar supports (outboard lower anchorage): 28 mm  
 Length ≤60mm = PASS Length >60mm = FAIL(S9.1.1(c) (ii))

Length between the anchor bar supports (inboard lower anchorage): 28 mm  
 Length ≤60mm = PASS Length >60mm = FAIL(S9.1.1(c) (ii))

CRF Pitch angle: 12.2  
 Angle = 15°±10° = PASS Angle≠15°±10° = FAIL (S9.2.1)

CRF Roll angle: 0.3  
 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  
 Distance ≤70mm = PASS Distance > 70mm = FAIL

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

## DATA SHEET 4A CONTINUED

DESIGNATED SEATING POSITION: ROW 2 RIGHT SIDE (DSP C)Distance between SgRP and the front surface of outboard anchor bar: 147 mm  
Distance  $\geq$  120mm = PASS      Distance < 120mm = FAILDistance between SgRP and the front surface of inboard anchor bar: 147 mm  
Distance  $\geq$  120mm = PASS      Distance < 120mm = FAILBased 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: G. FarrandDATE: 11/08/07APPROVED BY: D. Messick

DATA SHEET 5  
CONSPICUITY AND MARKING OF LOWER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: NOVEMBER 8, 2007  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

DESIGNATED SEATING POSITION: ROW 2 LEFT AND RIGHT SIDE (DSP A & C)

MARKING (Circles)

Diameter of the circle: N/A  
 Diameter  $\geq 13\text{mm}$  = PASS      Diameter  $< 13\text{mm}$  = 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  $\leq 25\text{mm}$  = PASS      Distance  $> 25\text{mm}$  = 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? YES  
 YES = PASS      NO = FAIL (S9.5(b))

## DATA SHEET 5 CONTINUED

DESIGNATED SEATING POSITION: ROW 2 LEFT SIDE AND RIGHT SIDE (DSP A & 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.

RECORDED BY: G. FarrandDATE: 11/08/07APPROVED BY: D. Messick



DATA SHEET 6  
STRENGTH OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: APRIL 2, 2008  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE  
 TEST NO: 5984

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

SFAD: 2

Seat Back Angle: 26°

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: 66 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 sec.

Maximum force (14,950 N ± 50 N): 14,980 N

Tested simultaneously with another DSP? NO

COMMENTS:

RECORDED BY: G. FARRAND

DATE: 04/02/08

APPROVED BY: D. MESSICK

DATA SHEET 7  
OWNER'S MANUAL

VEH. MOD YR/MAKE/MODEL/BODY: 2007 VOLKSWAGEN RABBIT PASSENGER CAR  
 VEH. NHTSA NO: C75800; VIN: WVWCR71K67W131176  
 VEH. BUILD DATE: 12/06; TEST DATE: NOVEMBER 8, 2007  
 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: \_\_\_\_\_

PASS X FAIL \_\_\_\_\_

COMMENTS:

RECORDED BY: G. Farrand

DATE: 11/08/07

APPROVED BY: D. Messick

SECTION 4  
INSTRUMENTATION AND EQUIPMENT LIST

TABLE 1 - INSTRUMENTATION & EQUIPMENT LIST

EQUIPMENT	DESCRIPTION	MODEL/ SERIAL NO.	CAL. DATE	NEXT CAL. DATE
COMPUTER	AT&T	486DX266	BEFORE USE	BEFORE USE
LOAD CELL	INTERFACE	496	03/07	03/08
LINEAR TRANSDUCER	SERVO SYSTEMS	20	BEFORE USE	BEFORE USE
SEAT BELT LOAD CELL	TRANSDUCER	135	BEFORE USE	BEFORE USE
SEAT BELT LOAD CELL	TRANSDUCER	137	BEFORE USE	BEFORE USE
LEVEL	STANLEY	42-449	BEFORE USE	BEFORE USE
FORCE GAUGE	CHATILLON	8761	BEFORE USE	BEFORE USE
CALIPER	N/A	Q9322365	BEFORE USE	BEFORE USE
CRF	MEASUREMENT FIXTURE	GTL CRF	BEFORE USE	BEFORE USE
SFAD 1	FORCE APPLICATION DEVICE	GTL SFAD 1	BEFORE USE	BEFORE USE
SFAD 2	FORCE APPLICATION DEVICE	GLT SFAD 2	BEFORE USE	BEFORE USE

SECTION 5  
PHOTOGRAPHS



2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.1  
¾ FRONTAL RIGHT SIDE VIEW OF VEHICLE



2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.2  
¾ REARWARD LEFT SIDE VIEW OF VEHICLE

MFD BY VOLKSWAGEN AG GERMANY 12/06  
GVWR 4145 GAWR FRONT 2227/ REAR 2029 LBS  
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S.  
FEDERAL MOTOR VEHICLE SAFETY, BUMPER AND  
THEFT PREVENTION STANDARDS IN EFFECT ON  
THE DATE OF MANUFACTURE SHOWN ABOVE.

WVWCR71K67W131176

PASSENGER CAR



4916725 1006 3

2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.3  
CLOSE-UP VIEW OF VEHICLE CERTIFICATION  
LABEL



## TIRE AND LOADING INFORMATION

SEATING CAPACITY | TOTAL 5 | FRONT 2 | REAR 3

THE COMBINED WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED 440 KG OR 970 LBS

TIRE	SIZE	COLD TIRE PRESSURE
FRONT	195/65 R15	230 KPA, 34 PSI
REAR	195/65 R15	230 KPA, 34 PSI
SPARE	195/65 R15	230 KPA, 34 PSI

**SEE OWNER'S  
MANUAL FOR  
ADDITIONAL  
INFORMATION**

1K0 010 467 E

2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.4  
CLOSE-UP VIEW OF VEHICLE TIRE INFORMATION  
LABEL





2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.5  
VISIBILITY OF LOWER ANCHORS



2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
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FIGURE 5.6  
ROW 2, LEFT SIDE, OUTBOARD LOWER ANCHOR,  
PRE-TEST



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FIGURE 5.7  
ROW 2, LEFT SIDE, INBOARD LOWER ANCHOR,  
PRE-TEST



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NHTSA NO. C75800  
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FIGURE 5.8  
ROW 2, LEFT SIDE, TOP TETHER ANCHOR,  
PRE-TEST



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FIGURE 5.9  
ROW 2, CENTER, TOP TETHER ANCHOR,  
PRE-TEST



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FIGURE 5.10  
ROW 2, RIGHT SIDE, INBOARD LOWER ANCHOR,  
PRE-TEST



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FMVSS NO. 225

FIGURE 5.11  
ROW 2, RIGHT SIDE, OUTBOARD LOWER ANCHOR,  
PRE-TEST



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FIGURE 5.12  
ROW 2, RIGHT SIDE, TOP TETHER ANCHOR,  
PRE-TEST





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NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.13  
OVERALL VIEW OF ROW 2 SEATING POSITIONS,  
PRE-TEST



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FMVSS NO. 225

FIGURE 5.14  
ROW 2, LEFT SIDE CRF



2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.15  
ROW 2, LEFT SIDE WITH 2-D TEMPLATE



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FIGURE 5.16  
ROW 2, LEFT SIDE TOP TETHER ROUTING



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FIGURE 5.17  
ROW 2, LEFT SIDE TOP TETHER ROUTING



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FIGURE 5.18  
ROW 2, RIGHT SIDE WITH CRF



2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.19  
ROW 2, RIGHT SIDE WITH 2-D TEMPLATE



2007 VOLKSWAGEN RABBIT  
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FIGURE 5.20  
ROW 2, RIGHT SIDE TOP TETHER ROUTING





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FMVSS NO. 225

FIGURE 5.21  
ROW 2, RIGHT SIDE TOP TETHER ROUTING



2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.22  
ROW 2, CENTER WITH 2-D TEMPLATE



2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.23  
ROW 2, CENTER TOP TETHER ROUTING



2007 VOLKSWAGEN RABBIT  
NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.24  
ROW 2, CENTER TOP TETHER ROUTING



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FIGURE 5.25  
ROW 2, RIGHT SIDE INBOARD CRF MEASUREMENT



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FIGURE 5.26  
ROW 2, RIGHT SIDE OUTBOARD CRF  
MEASUREMENT



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NHTSA NO. C75800  
FMVSS NO. 225

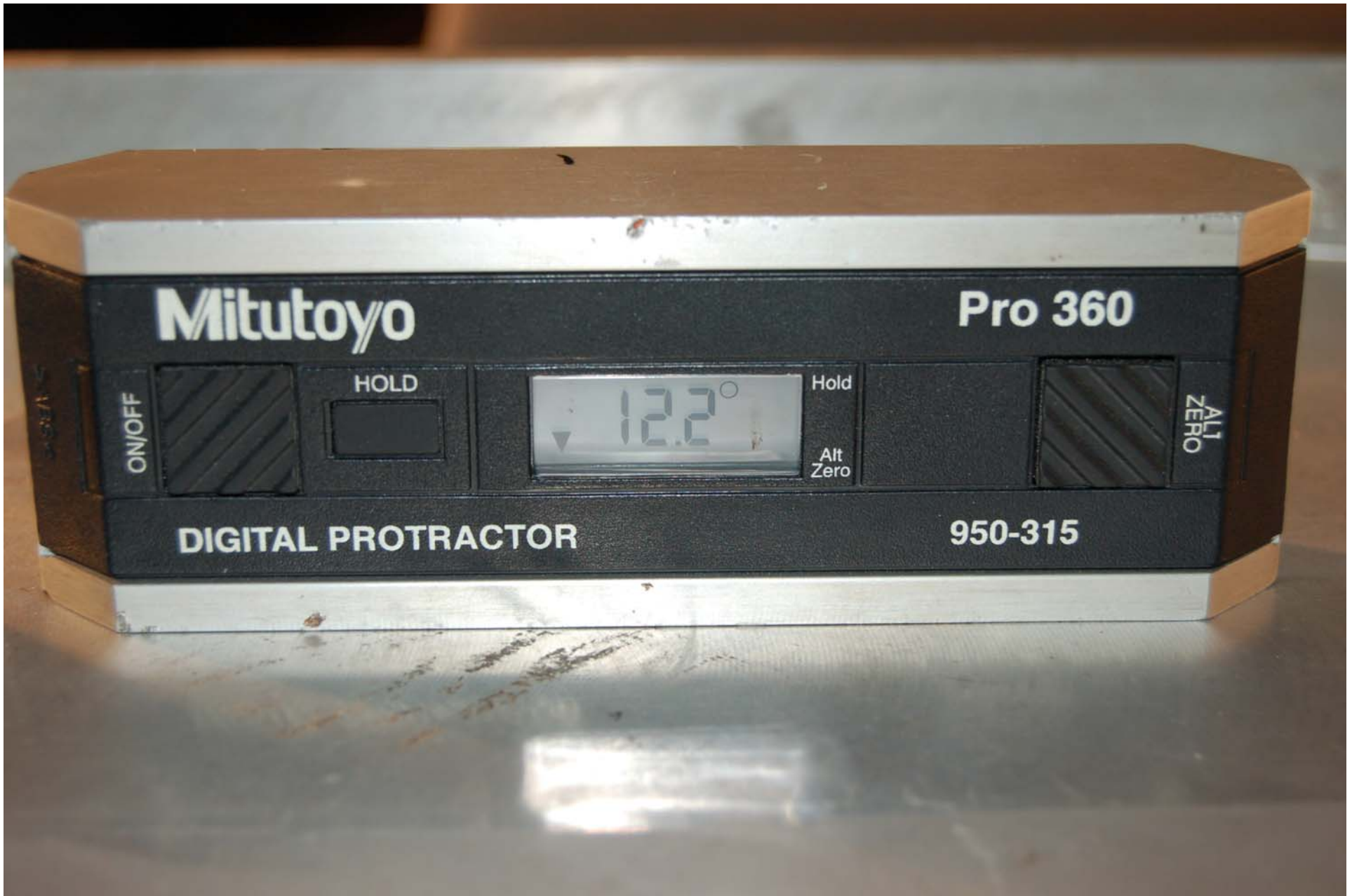
FIGURE 5.27  
ROW 2, LEFT SIDE, INBOARD CRF MEASUREMENT



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FIGURE 5.28  
ROW 2, LEFT SIDE, OUTBOARD CRF  
MEASUREMENT





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FIGURE 5.29  
ROW 2, LEFT SIDE CRF PITCH MEASUREMENT



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NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.30  
ROW 2, RIGHT SIDE CRF PITCH MEASUREMENT



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FIGURE 5.31  
ROW 2, LEFT SIDE OUTBOARD SRP  
MEASUREMENT



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FIGURE 5.32  
ROW 2, LEFT SIDE INBOARD SRP MEASUREMENT



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NHTSA NO. C75800  
FMVSS NO. 225

FIGURE 5.33  
ROW 2, RIGHT SIDE OUTBOARD SRP  
MEASUREMENT



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FMVSS NO. 225

FIGURE 5.34  
ROW 2, RIGHT SIDE INBOARD SRP MEASUREMENT



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FIGURE 5.35  
¾ LEFT FRONT VIEW OF VEHICLE IN TEST RIG



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FIGURE 5.36  
¾ RIGHT REAR VIEW OF VEHICLE IN TEST RIG





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FIGURE 5.37  
PRE-TEST ROW 2, LEFT SIDE WITH SFAD 2



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NHTSA NO. C75800  
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FIGURE 5.38  
POST TEST ROW 2, LEFT SIDE WITH SFAD 2

APPENDIX A  
OWNER'S MANUAL RESTRAINT INFORMATION

## Child restraints and Advanced Airbags

Regardless of the child restraint that you use, make sure that it has been certified to meet United States Federal Motor Vehicle Safety Standard 208 and has been certified by its manufacturer for use with an airbag. Always be sure that the child restraint is properly installed at one of the rear seating positions. In exceptional circumstances you must use it on the front passenger seat, carefully read all of the information on child safety and Advanced Airbags and heed all of the applicable WARNINGS. Make certain that the child restraint is correctly recognized by the weight-sensing mat inside the front passenger seat, that the front passenger airbag is turned off and that the airbag status is always correctly signaled by the **PASSENGER AIR BAG OFF** light.

Many types and models of child restraints have been available over the years, new models are introduced regularly incorporating new and improved designs and older models are taken out of production. Child restraints are not standardized. Child restraints of the same type typically have different weights and sizes and different "footprints," the size and shape of the bottom of the child restraint that sits on the seat, when they are installed on a vehicle seat. These differences make it virtually impossible to certify compliance with the requirements for advanced airbags with each and every child restraint that has ever been sold in the past or will be sold over the course of the useful life of your vehicle.

For this reason, the United States National Highway Traffic Safety Administration has published a list of specific types, makes and models of child restraints that must be used to certify compliance of the Advanced Airbag System in your vehicle with the suppression requirements of Federal Motor Vehicle Safety Standard 208. These child restraints are:

- A. Car beds, manufactured on or after September 1, 2004:**
  - Cosco Dream Ride 02-719
- B. Rear facing child restraint systems, manufactured on or after September 1, 2004:**

(When the restraint system comes equipped with a removable base, compliance has to be certified with or without the base).

- Britax Handle with Care 191
- Century Assura 4553
- Century Smart Fit 4543
- Cosco Arriva 02727
- Evenflo Discovery Adjust Right 212
- Evenflo First Choice 204
- Graco Infant 8457

### C. Forward-facing convertible child restraint systems, manufactured on or after September 1, 2004:

- Britax Roundabout 161
- Britax Expressway ISOFIX
- Century Encore 4612
- Century STE 1000 4416
- Cosco Olympian 02803
- Cosco Touriva 02519
- Evenflo Horizon V 425
- Evenflo Medallion 254
- Safety 1<sup>st</sup> Comfort Ride 22-440

### D. Forward-facing toddler/belt positioning booster systems, manufactured on or after September 1, 2004:

- Britax Roadster 9004
- Century Next Step 4920
- Cosco High Back Booster 02-442
- Evenflo Right Fit 245



#### WARNING

To reduce the risk of serious injury, make sure that the **PASSENGER AIR BAG OFF** light comes on and stays on whenever a child restraint is installed on the front passenger seat and the ignition is switched on.

- Take the child restraint off the front passenger seat and install it properly at one of the rear seat positions if the **PASSENGER AIR BAG OFF** light does not stay on.
- Have the airbag system inspected by your authorized Volkswagen dealer immediately.



## Important safety instructions for using child seats

*Correct use of child seats substantially reduces the risk of injury in an accident!*



Fig. 30 Never let babies or older children ride in a vehicle while sitting on the lap of another passenger.

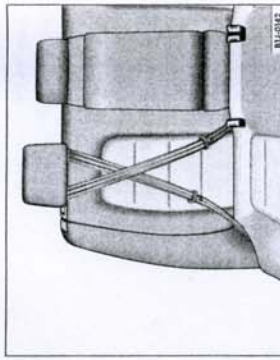


Fig. 31 Routing of unused center rear seat safety belts when installing a child restraint with the standard safety belt in an outboard seating position.

### As the driver, you are responsible for the safety of everybody in the vehicle, especially children:

- All children, especially those 12 years and younger, must always ride in the back seat properly restrained for their age and size.
- Always use the right child seat for each child and always use it properly ⇒ page 51.
- Always carefully follow the child seat manufacturer's instructions on how to route the safety belt properly through the child seat and how to restrain the child in the child seat.
- When using the vehicle safety belt to install a child seat, you must first activate the switchable locking feature on the safety belt to prevent the child seat from moving ⇒ page 64.
- Push the child seat down with your full weight to get the safety belt really tight so that the seat cannot move forward or sideways more than about one inch (2.5 cm).

### Important additional information about installing a child restraint system on the front passenger seat

- If you must install a child restraint on the front passenger seat in exceptional circumstances, be sure to read and heed the important information and WARNINGS in the section of this Booklet ⇒ page 31, "Advanced Airbag System, infants, child restraints and children on the front seat" as well as the additional information under ⇒ page 51, "Child safety".

### There are also additional adjustments that must be made in order to be able to properly install a child restraint on the front seat:

- Set the safety belt upper anchorage for the front passenger seat to the highest adjustment position of the available safety belt length is sufficient to properly install the child restraint ⇒

– Move the front passenger seat to the highest position in the seat's up and down adjustment range and to rearmost position in the seat's fore and aft adjustment range, as far away from the airbag as possible before installing the forward-facing child restraint and make sure the backrest is in the upright position ⇒

– If a strap or tether is being used to tie the child seat to the front passenger seat, make sure that it is not so tight that it causes the weight-sensing mat to measure more weight than is actually on the seat.

You must take special precautions when installing a child restraint with the vehicle safety belt or with LATCH lower universal anchorages behind the front passenger seat or behind the driver seat. Always route the unused center seat safety belt and the unused safety belt for the seating position where the LATCH child restraint is being installed around the rear head restraint behind the child restraint to help prevent a child from playing with the unused belt and becoming entangled in it ⇒ page 55, fig. 31 and ⇒

Always remember: Even though your vehicle is equipped with an Advanced Airbag System, all children, especially those 12 years and younger, must always ride in the back seat properly restrained for their age and size.

**WARNING**

A child in a child restraint installed with the LATCH lower universal anchorages or with the standard safety belt on the rear seat may play with unused rear seat safety belts and become entangled resulting in serious personal injury and even death.

• Always secure unused rear seat safety belts out of reach of children in child seats such as by routing them around the head restraint for the seating position where the child restraint is installed.

• Never activate the switchable locking retractor when routing the seat belts around the head restraints.

**WARNING (continued)**

• Never let anyone sit at the center rear seating position if the center rear safety belt has been routed around a rear head restraint.

**WARNING**

Not using a child seat, using the wrong child seat or improperly installing a child restraint increases the risk of serious personal injury and death.

• All vehicle occupants and especially children must always be restrained properly whenever riding in a vehicle.

– An unrestrained or improperly restrained child can be injured or killed by being thrown against the inside of the vehicle or by being ejected from it during a sudden maneuver or impact.

– An unrestrained or improperly restrained child is at much greater risk of injury or death by being struck by an inflating airbag.

• Commercially available child seats are required to comply with U.S. Federal Motor Vehicle Safety Standard (FMVSS 213). All child restraints are designed to be secured in vehicle seats with the lap belt portion of the safety belts installed in your vehicle.

– When buying a child restraint, select one that fits your child and the vehicle.

– Only use child restraint systems that fully contact the flat portion of the seat cushion. The child restraint must not tip or lean to either side. Volkswagen does not recommend using child seats that rest on legs or tube-like frames. They do not provide adequate contact with the seat.

– Always heed all legal requirements pertaining to the installation and use of child seats and carefully follow the instructions provided by the manufacturer of the seat you are using.

• Never allow children under 4 ft. 9 in. (57 inches / 1.45 meters) to wear a normal safety belt. They must always be restrained by a proper child restraint system. Otherwise, they could sustain injuries to the abdomen and neck areas during sudden braking maneuvers or accidents.

**WARNING (continued)**

• Never let more than one child occupy a child seat.

• Never let babies or older children ride in a vehicle while sitting on the lap of another passenger.

– Holding a child in your arms is never a substitute for a child restraint system.

– The strongest person could not hold the child with the forces that exist in an accident. The child will strike the interior of the vehicle and can also be struck by the passenger.

– The child and the passenger can also injure each another in an accident.

• Never install rearward-facing child seats or infant carriers on the front passenger seat. A child will be seriously injured and can be killed when the passenger airbag inflates – even with an Advanced Airbag System.

• The inflating airbag will hit the child seat or infant carrier with great force and will smash the child seat and child against the backrest, center armrest, door or roof.

• Always install rearward-facing child seats or infant carriers on the rear seat.

• Forward-facing child seats installed on the front passenger's seat can interfere with the airbag when it inflates and cause serious injury to the child. Always install forward-facing child seats on the rear seat.

• If exceptional circumstances require the use of a forward-facing child restraint on the front passenger's seat, the child's safety and well-being require that the following special precautions be taken:

– Always make sure that the forward-facing child seat has been designed and certified by its manufacturer for use on a front seat with a passenger front and side airbag.

– Always carefully follow the manufacturer's instructions provided with the child seat or infant carrier.

– Never install a child restraint without a properly attached top tether strap if the child restraint manufacturer's instructions require the top tether strap to be used.

**WARNING (continued)**

– Never put the forward-facing child restraint up against or very near the instrument panel.

– Always set the safety belt upper anchorage to the highest adjustment position.

– Always move the passenger seat to the highest position in the up and down adjustment range and move it back to the rearmost position in the seat's fore and aft adjustment range, as far away from the airbag as possible, before installing the forward-facing child restraint.

– Always make sure that nothing prevents the front passenger's seat from being moved to the rearmost position in its fore and aft adjustment range.

– Always make sure that the backrest is in the upright position.

– Never place additional items on the seat that can increase the total weight registered by the weight-sensing mat and can cause injury in a crash.

– Make sure that the PASSENGER AIR BAG OFF light comes on and stays on all the time whenever the ignition is switched on.

– If the PASSENGER AIR BAG OFF light does not come on and stay on, immediately install the forward-facing child seat in a rear seating position and have the airbag system inspected by your authorized Volkswagen dealer or qualified workshop.

– Always buckle the child seat firmly in place even if a child is not sitting in it. A loose child seat can fly around during a sudden stop or in a collision.

– Always read and heed all WARNINGS whenever using a child restrained in a vehicle is being used ⇒ page 13. "Safety belts", ⇒ page 28, "Airbag system", and ⇒ page 51, "Child safety".

**WARNING**

To reduce the risk of serious injury, make sure that the PASSENGER AIR BAG OFF light comes on and stays on whenever a child restraint is

**WARNING** (continued)

installed on the front passenger seat and the ignition is switched on.

- If the **PASSENGER AIR BAG OFF** light does not stay on, perform the checks described  $\Rightarrow$  page 39, "Monitoring the Advanced Airbag System".

- Take the child restraint off the front passenger seat and install it properly at one of the rear seat positions if the **PASSENGER AIR BAG OFF** light does not stay on.

- Have the airbag system inspected by your authorized Volkswagen dealer or qualified workshop immediately.

### Infant seats

*Babies and infants up to at least one year old that weigh at least 20 – 22 lbs. (9 – 10 kg) must sit in rearward-facing child restraints that support the back, neck and head in a collision.*



Fig. 32 Rearward-facing infant seat properly installed on the rear seat

Before installing a child restraint on the front passenger seat, be sure to follow the special instructions and heed the **WARNINGS**  $\Rightarrow$  page 67, "Activating the switchable locking feature".

**Note**

- Be careful not to activate the switchable locking retractor when routing the center safety belt around the head restraint. Only pull the unused center safety belt out far enough to allow you to route the belt around the head restraint.

- When installing a child restraint, be careful not to get the belt caught in the structure of the child seat and become damaged, especially when the switchable locking feature has been activated.

group. Many experts believe that infants and small children must ride only in special restraints in which the child faces the back of the vehicle. These infant seats support the baby's back, neck and head in a collision. These child seats can be used safely only on the rear seat of your Volkswagen  $\Rightarrow$  fig. 32.

The airbag on the passenger side makes the front seat a potentially dangerous place for a child to ride. The front seat is not the safety place for a child in a forward-facing child seat. It is a very dangerous place for an infant or a larger child in a rearward-facing seat.

**WARNING**

Not using a child seat, using the wrong child seat or improperly installing a child restraint increases the risk of serious personal injury and death in a collision.

- Never install rearward-facing child seats or infant carriers on the front passenger seat – even with an Advanced Airbag System. A child will be seriously injured and can be killed when the inflating airbag hits the child seat or infant carrier with great force and smashes the child seat and child against the backrest, center armrest, door or roof.

- Always install rearward-facing child seats or infant carriers on the rear seat.

- Never install a rearward-facing child restraint in the forward-facing direction. These restraints are designed for the special needs of infants and very small children and cannot protect them properly if the seat is forward-facing.

- If you must install a rearward facing child seat on the front passenger seat because of exceptional circumstances and the **PASSENGER AIR BAG OFF** light does not come on and stay on, immediately install the rearward-facing child seat in a rear seating position and have

**WARNING** (continued)

the airbag system inspected by your authorized Volkswagen dealer or qualified workshop.

- Always read and heed all **WARNINGS** whenever using a child restrained in a vehicle is being used  $\Rightarrow$  page 13, "Safety belts",  $\Rightarrow$  page 26, "Airbag system" and  $\Rightarrow$  page 51, "Child safety".

**WARNING**

A child in a child restraint installed with the **LATCH** lower universal anchorages or with the standard safety belt on the rear seat may play with unused rear seat safety belts and become entangled resulting in serious personal injury and even death.

- Always secure unused rear seat safety belts out of reach of children in child seats such as by routing them around the head restraint for the seating position where the child restraint is installed.

- Never activate the switchable locking retractor when routing the seat belts around the head restraints.

- Never let anyone sit at the center rear seating position if the center rear safety belt has been routed around a rear head restraint.

**Note**

- When installing a child restraint, be careful not to get the belt caught in the structure of the child seat and become damaged, especially when the switchable locking feature has been activated.

- Be careful not to activate the switchable locking retractor when routing the safety belts around the head restraints. Only pull the unused center safety belt out far enough to allow you to route the belt around the head restraint.

### Convertible child seats

Properly used convertible child seats can help protect toddlers and children over age 1 and up to about age 4 who weigh between at least 20 and up to approximately 40 lbs. (9 and 18 kg) in a crash.

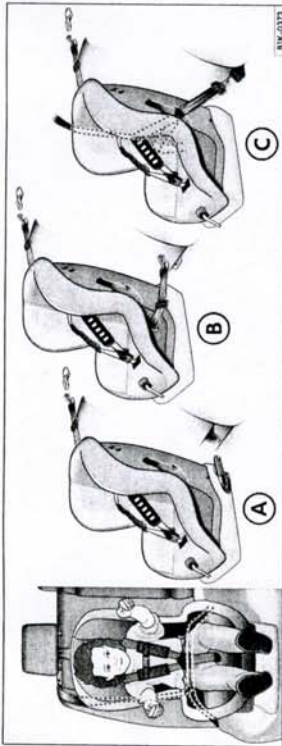


Fig. 33 Some child restraints are equipped with lower anchors and a top tether, illustration (A) and (B) show the correct installation of the attachments applicable to a LATCH seat. Figure (C) shows the installation of the seat using the vehicle's safety belt system.

Before installing a child restraint on the front passenger seat, be sure to follow the special instructions and heed the WARNINGS  $\Rightarrow$  page 67. "Activating the switchable locking feature".

- When using the vehicle safety belt to install a child seat, you must first activate the switchable locking feature on the safety belt to prevent the child seat from moving  $\Rightarrow$  page 64, "Installing child restraint with a safety belt".
- Push the child seat down with your full weight to get the safety belt really tight so that the seat cannot move forward or sideways more than about one inch (2.5 cm).
- Fasten the harness webbing that is part of the child restraint system securely and pull it tight so that you can only slip one finger underneath the shoulder belt portion at the child's chest.
- Attach the tether strap to the tether anchor for the seating position where the child restraint is being installed  $\Rightarrow$  page 70, "Tether anchors and tether straps".

- If a strap or tether is being used to tie the child seat to the front passenger seat, make sure that it is not so tight that it causes the weight-sensing mat to measure more weight than is actually on the seat.

You must take special precautions when installing a child restraint with the vehicle safety belt or with LATCH lower universal anchorages behind the front passenger seat or behind the driver seat. Always route the unused center seat safety belt and the unused safety belt for the seating position where the LATCH child restraint is being installed around the rear head restraint behind the child restraint to help prevent a child from playing with the unused belt and becoming entangled in it  $\Rightarrow$  page 55, fig. 31. Please see  $\Rightarrow$  page 55, "Important safety instructions for using child seats" and  $\Rightarrow$   $\Delta$ .

A toddler or child is usually too large for an infant restraint, if it is more than one year old and weighs more than 22 lbs. (10 kg).

Toddlers and children between one and about four years old and weigh between 22 lbs. (10 kg) and 40 lbs. (18 kg) must always be properly restrained in a child seat certified for their size and weight  $\Rightarrow$  fig. 33.

The airbag on the passenger side makes the front seat a potentially dangerous place for a child to ride. The front seat is not the safest place for a child in a forward-facing child seat. It is a very dangerous place for an infant or a larger child in a rearward-facing seat.

#### **WARNING**

Not using a child seat, using the wrong child seat or improperly installing a child restraint increases the risk of serious personal injury and death in a collision or other emergency situation.

- Children on the front seat of any car, even with Advanced Airbags, can be seriously injured or even killed when an airbag inflates. A child in a rearward-facing child seat installed on the front passenger seat will be seriously injured and can be killed if the front airbag inflates – even with an Advanced Airbag System.
- The inflating airbag will hit the child seat or infant carrier with great force and will smash the child seat and child against the backrest, center armrest, door or roof.
- Always install rearward-facing child seats on the rear seat.

If you must install a rearward-facing child seat on the front passenger seat because of exceptional circumstances and the PASSENGER AIR BAG OFF light does not come on and stay on, immediately install the rearward-facing child seat in a rear seating position and have the airbag system inspected by your authorized Volkswagen dealer or qualified workshop.

- Always read and heed all WARNINGS whenever using a child restrained in a vehicle as being used  $\Rightarrow$  page 13, "Safety belts",  $\Rightarrow$  page 28, "Airbag system" and  $\Rightarrow$  page 51, "Child safety".

#### **WARNING**

An improperly installed child restraint can interfere with the airbag as it deploys and seriously injure or even kill the child – even with an Advanced Airbag System.

- If exceptional circumstances require the use of a forward-facing child restraint on the front passenger's seat, the child's safety and

#### **WARNING** (continued)

well-being require that the following special precautions be taken:

- Forward-facing child seats installed on the front passenger's seat may interfere with the deployment of the airbag and cause serious personal injury to the child.
- Always make sure that the forward-facing child seat has been designed and certified by its manufacturer for use on a front seat with a passenger front and side airbag.
- Always carefully follow the manufacturer's instructions provided with the child seat or infant carrier.
- Never install a child restraint without a properly attached top tether strap if the child restraint manufacturer's instructions require the top tether strap to be used.
- Never put the forward-facing child restraint up against or very near the instrument panel.
- Always set the safety belt upper anchorage to the highest adjustment position.
- Always move the passenger seat to the highest position in the up and down adjustment range and move it back to the rearmost position in the seat's fore and aft adjustment range, as far away from the airbag as possible, before installing the forward-facing child restraint.
- Always make sure that nothing prevents the front passenger's seat from being moved to the rearmost position in its fore and aft adjustment range.
- Always make sure that the backrest is in the upright position.
- Never place additional items on the seat that can increase the total weight registered by the weight-sensing mat and can cause injury in a crash.
- Make sure that the PASSENGER AIR BAG OFF light comes on and stays on all the time whenever the ignition is switched on.
- If the PASSENGER AIR BAG OFF light does not come on and stay on, immediately install the forward-facing child seat in a rear seating position and have the

**⚠ WARNING (continued)**

airbag system inspected by your authorized Volkswagen dealer or qualified workshop.

- Always buckle the child seat firmly in place even if a child is not sitting in it. A loose child seat can fly around during a sudden stop or in a collision.

- Always read and heed all WARNINGS whenever using a child restrained in a vehicle is being used → page 13, "Safety belts", → page 28, "Airbag system" and → page 51, "Child safety".

**⚠ WARNING**

A child in a child restraint installed with the LATCH lower universal anchorages or with the standard safety belt on the rear seat may play with unused rear seat safety belts and become entangled resulting in serious personal injury and even death.

**⚠ WARNING (continued)**

- Always secure unused rear seat safety belts out of reach of children in child seats such as by routing them around the head restraint for the seating position where the child restraint is installed.

- Never activate the switchable locking retractor when routing the seat belts around the head restraints.

- Never let anyone sit at the center rear seating position if the center rear safety belt has been routed around a rear head restraint.

**① Note**

- When installing a child restraint, be careful not to get the belt caught in the structure of the child seat and become damaged, especially when the switchable locking feature has been activated.

- Be careful not to activate the switchable locking retractor when routing the seat belts around the head restraints. Only pull the safety belt out far enough to allow you to route the belt around the head restraint. ◀

**Booster seats and safety belts**

*Properly used booster seats can help protect children who weigh more than 40 lbs. (18 kg) who are 4 to at least 8 years old and are less than 4 ft. 9 in. (57 inches / 1.45 meters) tall in a collision.*



Fig. 34 Child properly restrained in a booster seat on the rear seat

The vehicle's safety belts alone will not fit most children until they are at least 4 ft. 9 in. (57 inches / 1.45 meters) tall.

Booster seats raise these children up so that the safety belt will pass properly over the strong parts of their bodies and the safety belt can help protect them in a collision.

- Do not use the switchable locking feature when using the vehicle's safety belt to restrain a child on a booster seat.

- Always position the shoulder portion of the safety belt midway over the child's shoulder. If you must transport an older child in a booster seat on the front passenger seat, you can use the safety belt height adjustment to help adjust the shoulder portion properly.

- Always make sure that the shoulder portion never rests against or across the child's neck.

- Always make sure that the child can wear the lap belt portion low across the thighs or pelvis and never over the stomach or abdomen.

You must take special precautions when installing a child restraint with the vehicle safety belt or with LATCH lower universal anchorages behind the front passenger seat or behind the driver seat. Always route the unused center seat safety belt and the unused safety belt for the seating position where the LATCH child restraint is being installed around the rear head restraint behind the child restraint to help prevent a child from playing with the unused belt and becoming entangled in it → page 55, fig. 31. Please see → page 55, "Important safety instructions for using child seats" and → ⚠.

Children up to at least 8 years old (over 40 lbs. or 18 kg) are best protected in child safety seats designed for their age and weight → page 62.

Experts say that the skeletal structure, particularly the pelvis, of these children is not fully developed, and they must not use the vehicle safety belts without a suitable child restraint.

Children who are at least 4 ft. 9 in. (57 inches / 1.45 meters) tall can generally use the vehicle's three point lap and shoulder belts. Never use the lap portion of the vehicle's safety belt alone to restrain any child, regardless of how big the child is. Always remember that children do not have the pronounced pelvic structure required for the proper function of lap belt portion of the vehicle's three point lap and shoulder belts. The child's safety absolutely requires that a lap belt portion of the safety belt be fastened snugly and as low as possible around the pelvis. Never let the lap belt portion of the safety belt pass over the child's stomach or abdomen.

It is usually best to put these children in appropriate booster seats. Be sure the booster seat meets all applicable safety standards.

Booster seats raise the seating position of the child and position both the lap and shoulder parts of the safety belt so that they pass across the child's body in the right places. The routing of the belt over the child's body is very important for the child's protection, whether or not a booster seat is used. Children age 12 and under must always ride in the rear seat.

In a collision, airbags must inflate within a blink of an eye and with considerable force. In order to do its job, the airbag needs room to inflate so that it will be there to protect the occupant as the occupant moves forward into the airbag.

Even Advanced Airbags can cause injury to children when they inflate. A vehicle occupant who is out of position and too close to the airbag gets in the way of an inflating airbag. When an occupant is too close, he or she will be struck violently and will receive serious or possibly even fatal injury.

In order for the airbag to offer protection, it is important that all vehicle occupants, especially any children, who must be in the front seat be restrained and as far away from the airbag as possible. By keeping room between the child's body and the front of the passenger compartment, the airbag can inflate completely and provide supplemental protection in certain frontal collisions.

**⚠ WARNING**

Not using a booster seat, using the booster seat improperly, incorrectly installing a booster seat or using the vehicle safety belt improperly increases the risk of serious personal injury and death in a collision or other emergency situation. To help reduce the risk of serious personal injury and/or death:

- Always make sure to position the shoulder portion of the three-point belt over the middle of child's shoulder.
- Never let the shoulder portion of the safety belt rest against or across the neck, face, chin, or throat of the child.
- Always make sure the lap belt portion of the three-point safety belt is worn snug and



**WARNING** (continued)

cial precautions apply when installing a child seat on the front passenger seat ⇒ page 31, "Advanced Airbag System, infants, child restraints and children on the front seat".

**WARNING**

Rearward-facing child restraints:

- A child in a rearward-facing child seat installed on the front passenger seat will be seriously injured and can be killed if the front airbag inflates – even with an Advanced Airbag System.
- The inflating airbag will hit the child seat or infant carrier with great force and will smash the child seat and child against the backrest, center armrest, door or roof.
- Always install rearward-facing child seats or infant carriers on the rear seat.
- Always be especially careful if you must install a rearward-facing child seat on the front passenger seat in exceptional circumstances.
- A tight tether strap on a rearward-facing child restraint attached to the front passenger seat can put too much pressure on the weight mat in the seat and register a heavier weight in the Advanced Airbag System. The heavier weight registered can make the system work as though an adult were on the seat and deploy the Advanced Airbag when it must be suppressed causing serious or even fatal injury to the child.
- Make sure that the PASSENGER AIR BAG OFF light comes on and stays on all the time whenever the ignition is switched on.
- If the PASSENGER AIR BAG OFF light does not come on and stay on, immediately install the rearward-facing child seat in a rear seating position and have the airbag system inspected by your authorized Volkswagen dealer or qualified workshop.

**WARNING**

An improperly installed child restraint can interfere with the airbag as it deploys and seriously injure or even kill the child – even with an Advanced Airbag System.

- If exceptional circumstances require the use of a forward-facing child restraint on the

seat that you are using and then activate the switchable locking feature.

Whenever a child restraint is installed with a safety belt, the safety belt must be locked so that belt webbing cannot unree. The switchable locking feature lets you lock the belt so that a child restraint can be properly installed and, for example, so that it can't tip to the side when the vehicle goes around a corner.

Always remember: Even though your vehicle is equipped with an Advanced Airbag System, all children, especially those 12 years and younger, must always ride in the back seat properly restrained for their age and size.

**WARNING**

Improperly installed child seats increase the risk of serious personal injury and death in a collision.

- Always make sure that the safety belt retractor is locked when installing a child seat. An unlocked safety belt retractor cannot hold the child seat in place during normal driving or in a crash.
- Always buckle the child seat firmly in place even if a child is not sitting in it. A loose child seat can fly around during a sudden stop or in a collision.
- Always make sure that the rear seat backrest to which the center rear safety belt is attached is securely latched whenever the rear center safety belt is being used to secure a child restraint ⇒ Booklet 3.1 "Controls and Equipment", chapter "Rear seat."
- If the backrest is not securely latched, the child and the child restraint will be thrown forward together with the backrest and will strike parts of the vehicle interior. The child can be seriously injured or killed.
- Always install rearward-facing child seats or infant carriers on the rear seat.
- Forward-facing child seats or infant carriers installed on the front passenger's seat may interfere with the deployment of the airbag and cause serious injury to the child.
- It is safer to install a forward-facing child seat on the rear seat.
- Always read and heed all WARNINGS whenever using a child restrained in a vehicle is being used ⇒ page 51, "Child safety". Spe-

**WARNING** (continued)

OFF light does not stay on whenever the ignition is switched on.

- Always read and heed all WARNINGS whenever using a child restrained in a vehicle ⇒ page 13, "Safety belts", "Safety belts", "Airbag system" and ⇒ page 51, "Child safety".

**WARNING**

A child in a child restraint installed with the LATCH lower universal anchorages or with the standard safety belt on the rear seat may play with unused rear seat safety belts and become entangled resulting in serious personal injury and even death.

- Always secure unused rear seat safety belts out of reach of children in child seats such as by routing them around the head restraint for the seating position where the child restraint is installed.
- Never activate the switchable locking retractor when routing the seat belts around the head restraints.
- Never let anyone sit at the center rear seating position if the center rear safety belt has been routed around a rear head restraint.

**Note**

Be careful not to activate the switchable locking retractor when routing the center safety belt around the head restraint. Only pull the unused center safety belt out far enough to allow you to route the belt around the head restraint. ◀

**WARNING** (continued)

passes as low as possible across the child's pelvis. Never let the belt pass over the soft abdomen.

- Failure to properly route safety belts over a child's body will cause severe injuries in an accident or other emergency situation ⇒ page 13, "Safety belts".
- Children on the front seat of any car, even with Advanced Airbags, can be seriously injured or even killed when an airbag inflates. A child in a rearward-facing child seat installed on the front passenger seat will be seriously injured and can be killed if the front airbag inflates.
- Never let a child stand or kneel on any seat, for example the front seat.
- Never let a child ride in the cargo area of your vehicle.
- Always remember that a child leaning forward, sitting sideways or out of position in any way during a collision can be struck by a deploying airbag. This will result in serious personal injury or death.
- If you must install a booster seat on the front passenger seat because of exceptional circumstances the PASSENGER AIR BAG OFF light must come on and stay on, whenever the ignition is switched on.
- If the PASSENGER AIR BAG OFF light does not come on and stay on, perform the checks described ⇒ page 39, "Monitoring the Advanced Airbag System".
- Take the child restraint off the front passenger seat and install it properly at one of the rear seat positions if the PASSENGER AIR BAG

## Installing child restraint with a safety belt

### More important things to know

*Safety belts for the rear seats and the front passenger seat must be locked with the switchable locking feature to properly secure child seats.*

If you need to install a child seat at one of these seating positions, you must first route the safety belt as directed by the manufacturer of the child

The retractors for the rear seat safety belts and the front passenger safety belt have a switchable locking feature for child restraints in addition to the emergency locking feature.

**⚠ WARNING (continued)**

front passenger's seat, the child's safety and well-being require that the following special precautions be taken:

- Forward-facing child seats installed on the front passenger's seat may interfere with the deployment of the airbag and cause serious personal injury to the child.
- Always make sure that the forward-facing child seat has been designed and certified by its manufacturer for use on a front seat with a passenger front and side airbag.
- Always carefully follow the manufacturer's instructions provided with the child seat or infant carrier.
- Never install a child restraint without a properly attached top tether strap if the child restraint manufacturer's instructions require the top tether strap to be used.
- Never put the forward-facing child restraint up against or very near the instrument panel.
- Always set the safety belt upper anchorage to the highest adjustment position.

- Always move the passenger seat to the highest position in the up and down adjustment range and move it back to the rearmost position in the seat's fore and aft adjustment range, as far away from the airbag as possible, before installing the forward-facing child restraint.
- Always make sure that nothing prevents the front passenger's seat from being moved to the rearmost position in its fore and aft adjustment range.

- Always make sure that the backrest is in the upright position.
- Never place additional items on the seat that can increase the total weight registered by the weight-sensing mat and can cause injury in a crash.

- Make sure that the **PASSENGER AIR BAG OFF** light comes on and stays on all the time whenever the ignition is switched on.
- If the **PASSENGER AIR BAG OFF** light does not come on and stay on, immediately install the forward-facing child seat

**⚠ WARNING (continued)**

in a rear seating position and have the airbag system inspected by your authorized Volkswagen dealer or qualified workshop.

- Always buckle the child seat firmly in place even if a child is not sitting in it. A loose child seat can fly around during a sudden stop or in a collision.
- Always read and heed all **WARNINGS** whenever using a child restrained in a vehicle is being used ⇒ page 20, "Safety belts", ⇒ page 28, "Airbag system" and ⇒ page 51, "Child safety". Special precautions apply when installing a child seat on the front passenger seat ⇒ page 31, "Advanced Airbag System, infants, child restraints and children on the front seat".

**⚠ WARNING**

A child in a child restraint installed with the LATCH lower universal anchorages or with the standard safety belt on the rear seat may play with unused rear seat safety belts and become entangled resulting in serious personal injury and even death.

- Always secure unused rear seat safety belts out of reach of children in child seats such as by routing them around the head restraint or the seating position where the child restraint is installed.

- Never activate the switchable locking retractor when routing the seat belts around the head restraints.

- Never let anyone sit at the center rear seating position if the center rear safety belt has been routed around a rear head restraint.

**📌 Note**

- When installing a child restraint, be careful not to get the belt caught in the structure of the child seat and become damaged, especially when the switchable locking feature has been activated.

- Be careful not to activate the switchable locking retractor when routing the center safety belt around the head restraint. Only pull the unused center safety belt out far enough to allow you to route the belt around the head restraint. ◀

**Activating the switchable locking feature**

Use the *switchable locking feature to properly secure a child restraint*.

- Always carefully follow the child seat manufacturer's instructions when installing a child restraint in your vehicle. Before trying to install a child restraint on the front passenger seat, be sure to follow the SPECIAL instructions and heed the **WARNINGS** below. To activate the switchable locking feature:
- Place the child restraint on a seat, preferably on the rear seat ⇒ ⚠.
  - In exceptional circumstances, you must install the child restraint on the front seat, then set the safety belt upper anchorage for the front passenger seat to the highest adjustment position if the available safety belt length is sufficient to properly install the child restraint and make sure the backrest is in the upright position ⇒ ⚠.
  - Move the front passenger seat to the highest position in the seat's up and down adjustment range ⇒ ⚠.
  - Move the front passenger seat to the rearmost position in the seat's fore and aft adjustment range, as far away from the airbag as possible before installing the forward-facing child restraint ⇒ ⚠.
  - If a strap or tether is being used to tie the child seat to the front passenger seat, make sure that it is not so tight it cause the weight-sensing mat to measure more weight than is actually on the seat.
  - Route the safety belt around or through the child restraint using the proper path for the safety belt as specified by the child restraint manufacturer.
- Insert the belt tongue into the buckle for that seating position.
- Make sure that the red release button faces away from the child restraint so that it can be unbuckled quickly.
  - Remove all slack from the lap belt portion of the safety belt and hold it tightly against the child restraint.
  - Push the child restraint down with your full weight to make sure that the child restraint will be properly installed with the safety belt really tight ⇒ ⚠.
  - Slowly pull the shoulder belt portion of the safety belt **all the way out** of the retractor.
  - While keeping your weight on the child restraint, guide the shoulder belt portion of the safety belt back into the retractor until the belt lies flat and is tightened against the child restraint.
  - You should hear a "clicking" noise as the belt winds back into the inertia reel of the safety belt retractor. Test the switchable locking feature by pulling on the belt. You should no longer be able to pull the belt out of the retractor. The switchable locking feature is now active.
  - Pull on the safety belt to make sure the safety belt is properly fastened and tight.
  - Check the child seat for proper installation by pulling on the child restraint at the place where the vehicle's safety belt goes into the child restraint. The child seat should not move forward or sideways by more than about one inch (2.5 cm).

– After checking to make sure that the child restraint is properly installed make certain that the child restraint is correctly recognized by the weight-sensing mat inside the front passenger seat, so that the front passenger airbag status is always correctly signaled by the **PASSENGER AIR BAG OFF** light. Please be sure to read the additional important information and heed the **WARNINGS** about the Advanced Airbag System and the function of the **PASSENGER AIR BAG OFF** light in this Booklet.

**⚠ WARNING**

Using the wrong child restraint or an improperly installed child restraint can cause serious personal injury or death in an accident.

- Always make sure that the safety belt retractor is locked when installing a child seat. An unlocked safety belt retractor cannot hold the child seat in place during normal driving or in a crash.
- Always buckle the child seat firmly in place even if a child is not sitting in it. A loose child seat can fly around during a sudden stop or in a collision.

- Always make sure the seat backrest to which the child restraint is installed is in an upright position and securely latched into place and cannot fold forward. Otherwise, the seat back with the child seat attached to it could fly forward in a collision or other emergency situation.
- Always read and heed all **WARNINGS** whenever using a child restrained in a vehicle

**⚠ WARNING (continued)**

is being used ⇒ page 51, "Child safety". Special precautions apply when installing a child seat on the front passenger seat ⇒ page 31, "Advanced Airbag System, infants, child restraints and children on the front seat".

**⚠ WARNING**

A child in a child restraint installed with the LATCH lower universal anchorages or with the standard safety belt on the rear seat may play with unused rear seat safety belts and become entangled resulting in serious personal injury and even death.

- Always secure unused rear seat safety belts out of reach of children in child seats such as by routing them around the head restraint for the seating position where the child restraint is installed.
- Never activate the switchable locking retractor when routing the seat belts around the head restraints.
- Never let anyone sit at the center rear seating position if the center rear safety belt has been routed around a rear head restraint.

**📌 Note**

- When installing a child restraint, be careful not to get the belt caught in the structure of the child seat and become damaged, especially when the switchable locking feature has been activated.
- Be careful not to activate the switchable locking retractor when routing the seat belts around the head restraints. Only pull the safety belt out far enough to allow you to route the belt around the head restraint. ⚡

**Deactivating the switchable locking feature**

*The switchable locking feature for child restraints will be deactivated automatically when the belt is wound all the way back into the retractor.*

– Press the red button on the safety belt buckle. The belt tongue will pop out of the buckle ⇒ **⚠**.

– Guide the safety belt back by hand so that it rolls easily onto the retractor and the trim around the retractor will not be damaged.

Always let the safety belt retract completely into its stowed position. The safety belt can now be used as an ordinary safety belt without the switchable locking feature for child restraints.

If the switchable locking feature should be activated inadvertently, the safety belt must be unfastened and guided completely back into its stowed position to deactivate this feature. If the switchable locking feature is not deactivated, the

safety belt will gradually become tighter and uncomfortable to wear.

**⚠ WARNING**

Improperly installed child seats increase the risk of serious personal injury and death in a collision.

- Never unfasten the safety belt to deactivate the switchable locking feature for child restraints while the vehicle is moving. You would not be restrained and could be seriously injured in an accident.
- Always read and heed all **WARNINGS** whenever using a child restrained in a vehicle is being used ⇒ page 51, "Child safety". Special precautions apply when installing a child seat on the front passenger seat ⇒ page 31, "Advanced Airbag System, infants, child restraints and children on the front seat". ⚡

**Additional Information****Child Restraint System anchors and how are they related to child safety**

To provide a simpler and more practicable way to attach the child restraint on the vehicle seat, U.S. Federal regulations require special lower anchorages in vehicles and devices on new child restraints to attach to the vehicle anchorages.

Your vehicle is equipped with anchors for tether straps at each rear seating position. It is also equipped with special LATCH lower universal anchorages at the rear seating positions on the body between the seat back and seat cushion. The combination of the tether anchorages and the lower anchorages is now generally called the LATCH system for "Lower Anchor and Tether for Children."

Forward-facing child restraints manufactured after September 1, 1999, are required by U.S. Federal regulations to comply with child head movement performance requirements. These

new performance requirements make a tether necessary on most new child seats.

Installing a child restraint that requires a top tether without one can seriously impair the performance of the child restraint and its ability to protect the child in a collision. Installing a child restraint that requires a top tether without the top tether may be a violation of state law.

Child restraint manufacturers offer two kinds of LATCH lower universal anchorages on their child seats.

- hook-on or push-on connectors attached to adjustable straps, or
- rigid latches on bars that extend out the back of the child restraint and are released with release buttons at the bottom of the child restraint.

In addition to the LATCH lower universal anchors, both of these child restraint systems usually require the use of tether straps to help keep the child restraint firmly in place.

#### ⚠ WARNING

- Improper installation of child restraints will increase the risk of injury and death in a crash.
- Always carefully follow the instructions provided by the manufacturer of the child restraint you intend to install in your vehicle.
- Never install a child restraint without a properly attached top tether strap if the child

#### ⚠ WARNING (continued)

- restraint manufacturer's instructions require the top tether strap to be used.
- Improper use of child restraint LATCH lower universal anchorage points can lead to injury in a collision. The LATCH lower universal anchorage points are designed to withstand only those loads imposed by correctly fitted child restraints.
- Never mount two child restraint systems on one LATCH lower universal anchorage point.
- Never secure or attach any luggage or other item to the LATCH lower universal anchorages. ◀

### Tether anchors and tether straps

*Volkswagen vehicles have tether anchors as standard equipment.*

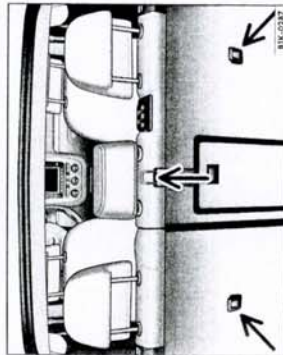


Fig. 35 Tether anchors for the rear seating positions on the backrest

The tether anchors for child restraints are behind the rear seat head restraints.

A tether strap is a straight or V-shaped strap that attaches the top part of a child restraint to special anchorage points in the vehicle.

The purpose of the tether strap is to reduce the forward movement of the child restraint in a crash, in order to help reduce the risk of head injury that could be caused by striking the vehicle interior.

Forward facing child restraint manufactured after September 1, 1999, are required by U.S. fed-

#### ⚠ WARNING (continued)

- If a tether or other strap is used to attach a child restraint to the front passenger seat, make sure that it is not so tight, that it causes the weight-sensing mat to measure more weight than is actually on the seat.
- The heavier weight registered can make the Advanced Airbag System work as though an adult were on the seat and deploy the Advanced Airbag when it must be suppressed

#### ⚠ WARNING (continued)

- causing serious or even fatal injury to the child.
- If you must install a rearward facing child seat on the front passenger seat because of exceptional circumstances and the PASSENGER AIR BAG OFF light does not come on and stay on, immediately install the rearward-facing child seat in a rear seating position and have the airbag system inspected by your authorized Volkswagen dealer or qualified workshop. ◀

### Using tether straps on rearward-facing child restraints

Currently, only a few rearward-facing child restraints come with a tether. Please read and heed the child restraint manufacturer's instructions carefully to determine how to properly install the tether.

#### ⚠ WARNING

- A child in a rearward-facing child seat installed on the front passenger seat will be seriously injured and can be killed if the front airbag inflates – even with an Advanced Airbag System.
- The inflating airbag will hit the child seat or infant carrier with great force and will smash the child seat and child against the backrest, center armrest, door or roof.
- A tight tether or other strap on a rearward-facing child restraint attached to the front passenger seat can put too much pressure on the weight-mat in the seat and register a heavier weight in the Advanced Airbag System. The heavier weight registered can make the Advanced Airbag System work as though an

#### ⚠ WARNING (continued)

- adult were on the seat and deploy the Advanced Airbag when it must be suppressed causing serious or even fatal injury to the child.
- If you must install a rearward facing child seat on the front passenger seat because of exceptional circumstances and the PASSENGER AIR BAG OFF light does not come on and stay on, immediately install the rearward-facing child seat in a rear seating position and have the airbag system inspected by your authorized Volkswagen dealer or qualified workshop.
- Always read and heed all WARNINGS whenever using a child restrained in a vehicle is being used ⇒ page 20, "Safety belts", ⇒ page 28, "Airbag system" and ⇒ page 51, "Child safety". Special precautions apply when installing a child seat on the front passenger seat ⇒ page 31, "Advanced Airbag System, infants, child restraints and children on the front seat". ◀

## Installing the upper tether strap on the anchorage

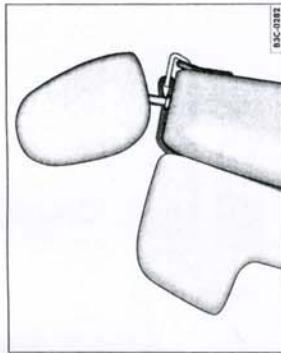


Fig. 36 Illustration of principle; properly mounted tether strap

### Installing the tether strap

- Release or deploy the tether strap on the child restraint according to the child restraint manufacturer's instructions.
- Remove the luggage compartment cover if necessary.
- Guide the upper tether strap under the rear head restraint (raise the head restraint if necessary).
- Locate the tether anchor on the rear seat backrest.

- Attach the tether strap anchorage hook into the opening of the tether anchorage.
- Pull on the tether strap hook so that the spring catch of the hook is engaged.
- Tighten the tether strap firmly following the child restraint manufacturer's instructions

### Releasing the tether strap

- Loosen the tension following the child restraint manufacturer's instructions.
- Depress the spring catch on the hook and release it from the anchorage.

Adjusting head restraints ⇒ Booklet 3.1 "Controls and Equipment", chapter "Seats and storage."

For more information please read and heed ⇒ page 70, "Tether anchors and tether straps".

### Note

If you leave the child restraint with the tether strap firmly installed for several days, this could leave a mark on the upholstery on the seat cushion and backrest in the area where the tether strap was installed. The upholstery would also be permanently stretched around the tether strap. This applies especially to leather seats. ◀

## LATCH lower universal anchorages

### Description

The LATCH lower universal anchorages for the rear outboard seating positions are attached to the vehicle at the factory.

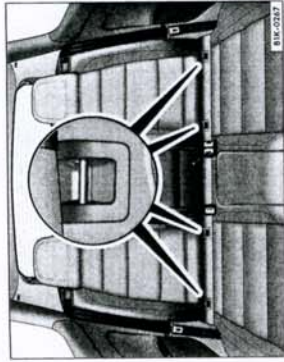


Fig. 37 Location of lower anchorages

The LATCH lower universal anchorage attachment points are between the rear seatback and rear seat cushion ⇒ fig. 37.

LATCH lower universal anchorages secure the child restraint system in the seat without using the vehicle's safety belts. Anchorages provide a secure and easy-to-use attachment and minimize the possibility of improper child restraint installation.

All child restraints manufactured after September 1, 2002, must have LATCH lower universal anchorage attachments.

Remember that the LATCH lower universal anchorage points are only intended for installation and attachment of child restraints specifically certified for use with these lower universal anchorages. Child restraints that are not equipped with the LATCH lower universal anchorage attachments can still be installed with vehicle safety belts according to the child restraint manufacturer's instructions.

### WARNING

Improper use of LATCH lower universal anchorages can cause serious personal injury in an accident.

### WARNING (continued)

- Always carefully follow the child restraint manufacturer's instructions for proper installation and use of child restraint systems.
- Always make sure that you hear a click when latching the seat in place. If you do not hear a click the seat is not secure and could fly forward and hit the interior of the vehicle, or be ejected from the vehicle.
- Never install a child restraint without a properly attached top tether strap if the child restraint manufacturer's instructions require the top tether strap to be used.
- Never use the LATCH lower universal anchorages to attach safety belts or other kinds of occupant restraints.
- Child restraint LATCH lower universal anchorages are only designed to secure a child restraint system that has been equipped to use these anchorages.
- LATCH lower universal anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances can they be used safely for adult or child seat belts or harnesses, luggage or other items.
- Never mount more than one child restraint to a LATCH lower universal anchorage point. Attaching two child restraints to a single anchorage point can cause the anchorage to fail and cause serious personal injury in an accident.
- Never use the LATCH lower universal anchorages to install three child restraints in your Volkswagen.
- Never use the inboard LATCH lower universal anchorages from the left and right rear seating positions to install a child restraint at the center of the rear seat. The distance between the inboard anchors will not allow a child restraint to be properly installed nor to

**WARNING** (continued)

be able to withstand the high forces that are generated in a crash.

- If you must install three child restraints on the rear seat of a Volkswagen with three seating positions in the rear, you must use the

**WARNING** (continued)

vehicle safety belt to install the child restraint in the center seating position.

- Always read and heed all WARNINGS whenever using a child restrained in a vehicle is being used ⇒ page 13, "Safety belts", ⇒ page 28, "Airbag system" and ⇒ page 51, "Child safety".

### Installing a child restraint with LATCH lower universal anchorages

Whenever you install a child restraint always follow the child restraint manufacturer's instructions.

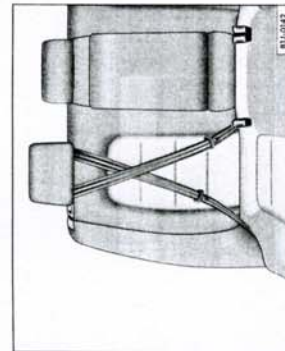


Fig. 38 Routing of unused center rear seat safety belts when installing a child restraint with the standard safety belt in an outboard seating position.

There are two ways to attach an appropriate child restraint to the LATCH lower universal anchorages:

#### Rigid connectors on bars at the back of the child restraint:

- Make sure the seat back of the rear seat bench is in the upright position and securely latched in place.
- Release or deploy the child restraint tether strap.
- Guide the upper tether strap under the rear head restraint (raise the head restraint if necessary).

- Pull on the connector attachments to make sure that it is properly attached to the LATCH lower universal anchorage.

- Pull straps tight following the child restraint manufacturer's instructions.

- Release or deploy the child restraint tether strap.

- Guide the upper tether strap under the rear head restraint (raise the head restraint if necessary).

- Attach the tether strap anchorage hook into the opening of the tether anchorage and pull the top tether strap tight.

- Pull on both of the adjustable straps on the child restraint and pull also on the tether strap once you've mounted the child restraint to make certain it's secure and properly attached.

#### Releasing

- Loosen the tension on the strap following the child restraint manufacturer's instructions.
- Depress the spring catch on the hook.

- Hold the spring catch in depressed position.

- Move the hook in direction of the vehicle floor so that there is enough space to release the anchorage hook from the lower anchorage.

- Release the tether strap

You must take special precautions when installing a child restraint with the vehicle safety belt or with LATCH lower universal anchorages behind the front passenger seat or behind the driver seat. Always route the unused center seat safety belt and the unused safety belt for the seating position where the LATCH child restraint is being installed around the rear head restraint behind the child restraint to help prevent a child from playing with the unused belt and becoming entangled in it ⇒ page 55, fig. 31. Please

see ⇒ page 55, "Important safety instructions for using child seats" and ⇒

#### WARNING

A child in a child restraint installed with the LATCH system may play with unused rear seat safety belts and become entangled resulting in serious personal injury and even death.

- Always secure unused rear seat safety belts out of reach of children in child seats such as by routing them around the head restraint for the seating position where the child restraint is installed.

- Never activate the switchable locking retractor when routing the seat belts around the head restraints.

- Never let anyone sit at the center rear seating position if the center rear safety belt has been routed around a rear head restraint.

#### WARNING

Improper use of the LATCH system can increase the risk of serious personal injury and death in an accident.

- These anchors were developed only for child seats using the "LATCH" system.

- Never attach other child seats, belts or other objects to the "LATCH" anchors.

- Always make sure that you hear a click when latching the seat in place. If you do not hear a click the seat is not secure and could fly forward and hit the interior of the vehicle, or be ejected from the vehicle.

#### WARNING

Improper installation of child restraints will increase the risk of injury in an accident.

- Always carefully follow the child restraint manufacturer's instructions for proper installation of the child restraints and proper use of tether straps as well as the LATCH lower universal anchorages or safety belts in your vehicle.

- Always read and heed the important information and WARNINGS about child safety and the installation of child restraints ⇒ page 51, "Child safety".



**1** Note

Be careful not to activate the switchable locking retractor when routing the seat belts around the head restraints. Only pull the safety belt out far enough to allow you to route the belt around the head restraint.

**2** Tips

In Canada, the terms "top tether" with "lower universal anchorages" or "lower universal anchorage bars" are used to describe the LATCH system. ◀

## Sources of information about child restraints and their use

There are a number of sources of additional information about child restraint selection, installation and use:

NHTSA advises that the best child safety seat is the one that fits your child and fits in your vehicle, and that you will use correctly and consistently.

Try before you buy!

**Transport Canada Information Centre**

Tel.: 1 (800) 333-0371 or call 1 (613) 998-8616 if you are in the Ottawa area  
[www.tc.gc.ca/roadsafety](http://www.tc.gc.ca/roadsafety)

**U.S. National Highway Traffic Safety Administration**

Tel.: 1-888-327-4236 (TTY: 1-800-424-9152)

[www.nhtsa.gov](http://www.nhtsa.gov)

**National SAFE KIDS Campaign**

Tel.: (202) 662-0600  
[www.safekids.org](http://www.safekids.org)

**Safety BeltSafe U.S.A.**

Tel.: (800) 745-SAFE (English)  
Tel.: (800) 747-SANO (Spanish)  
[www.carseat.org](http://www.carseat.org)

**Volkswagen Sit Safe® Program**

Program Professionals, Inc.  
Tel.: (734) 324-7550  
[www.programprofessionals.org](http://www.programprofessionals.org)

**Volkswagen Customer CARE**

Tel.: (800) 822-8987 ◀

APPENDIX B  
MANUFACTURER'S DATA

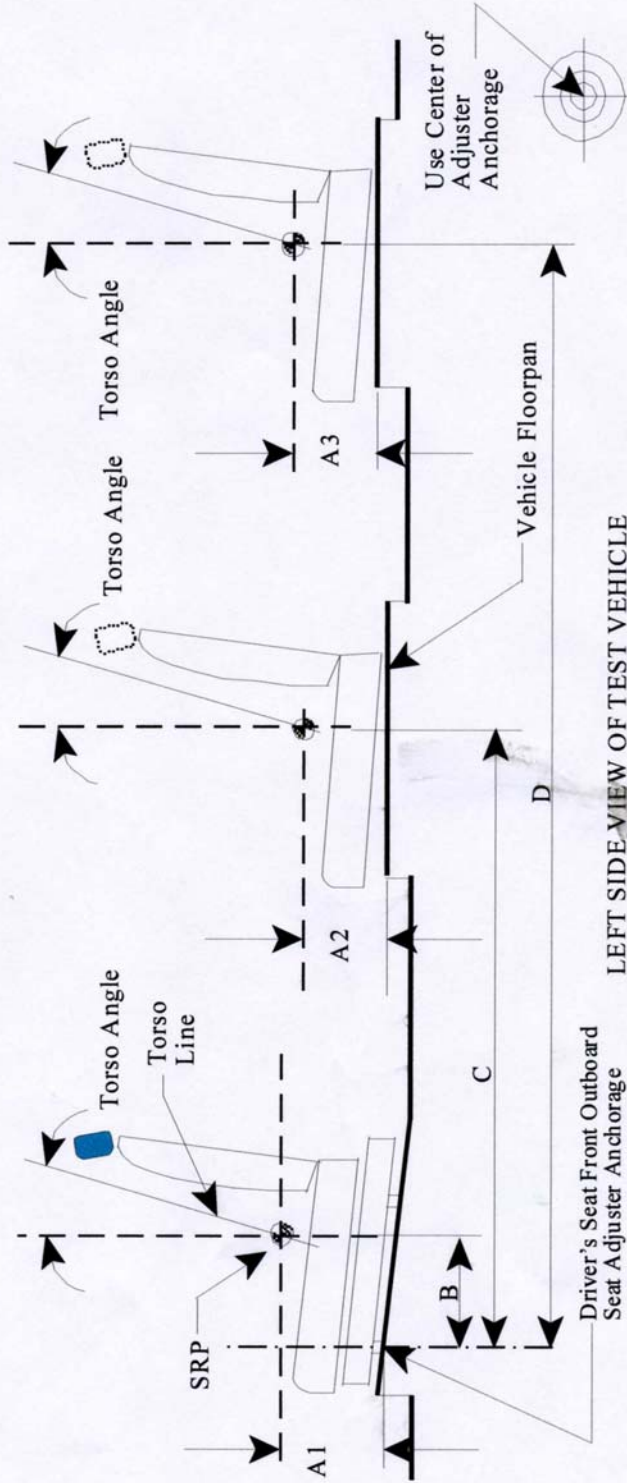


# SEAT REFERENCE POINT (SRP) AND TORSO ANGLE DATA

FMVSS No. 225  
(All dimensions in mm<sup>1</sup>)

MODEL YEAR: 2007 / MAKE: Volkswagen / MODEL: Rabbit 4-DR / BODY STYLE: Hatchback

SEAT STYLE: FRONT ROW: \_\_\_\_\_ / SECOND ROW: \_\_\_\_\_ / THIRD ROW: \_\_\_\_\_



LEFT SIDE VIEW OF TEST VEHICLE

Table 1. Seating Positions<sup>1</sup> and Torso Angles

	Left (Driver Side)	Center (if any)	Right
A1	(Driver) 210 mm	---	(Front Passenger) 210 mm
A2 (Driver's Seat Front Outboard Seat Adjust Anchorage)	220 mm	240 mm	220 mm
A3	---	---	---
B	336 mm	---	336 mm
C	1139 mm	1109 mm	1139 mm
D	---	---	---
Torso Angle (degree)	25 °	---	25 °
	25 °	24 °	25 °
	---	---	---

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

# SEATING REFERENCE POINT

FMVSS No. 225

(All dimensions in mm)

MODEL YEAR: 2007 / MAKE: Volkswagen / MODEL: Rabbit 4-DR / BODY STYLE: Hatchback

SEAT STYLE: FRONT ROW: \_\_\_\_\_ / SECOND ROW: \_\_\_\_\_ / THIRD ROW: \_\_\_\_\_

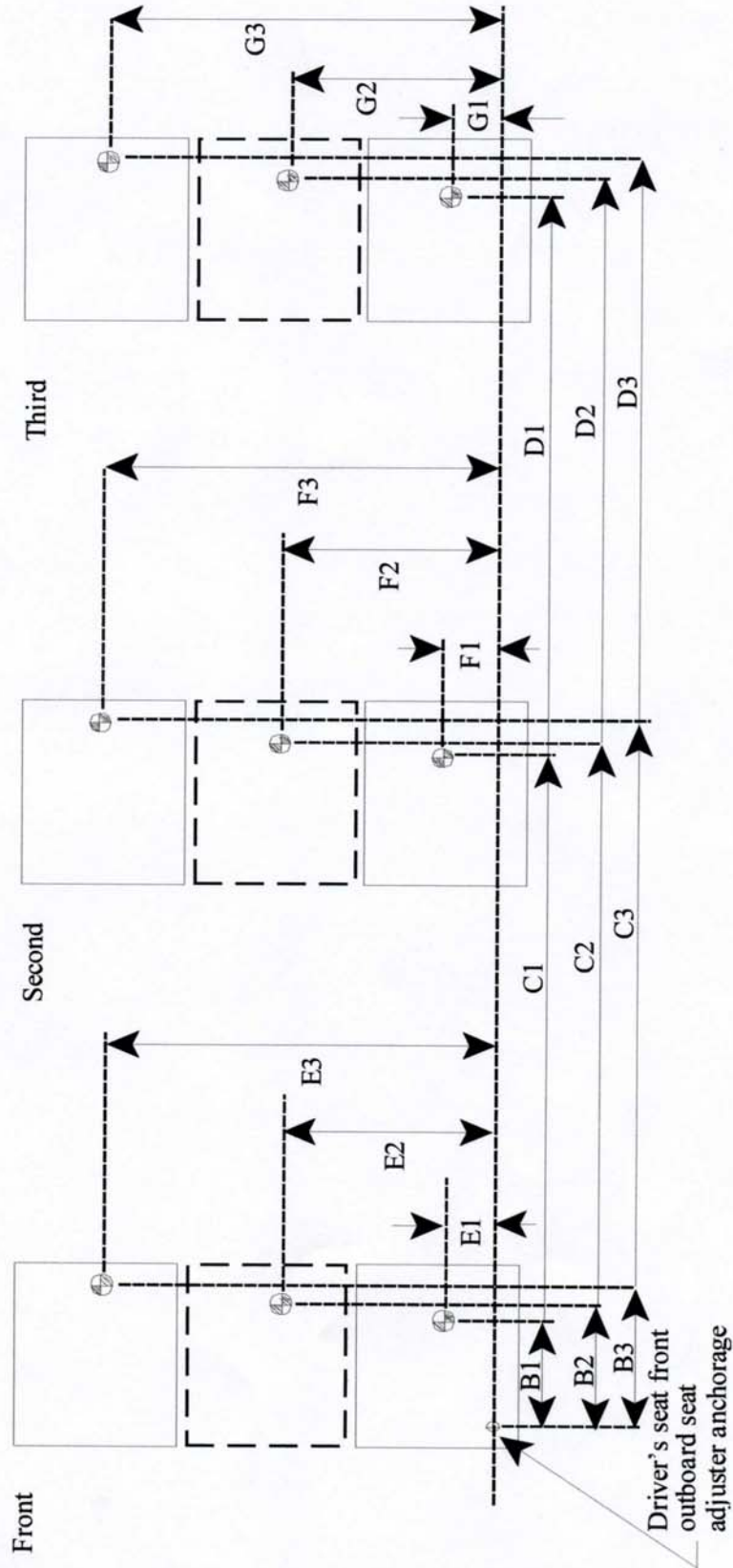


Table 2. Seating Reference Point and Tether Anchorage Locations

Seating Reference Point (SRP)		Distance from Driver's front outboard seat adjuster anchorage <sup>1</sup>
Front Row	B1	336 mm
	E1	270 mm
	B2	---
	E2	---
	B3	336 mm
	E3	960 mm
Second Row	C1	1139 mm
	F1	265 mm
	C2	1109 mm
	F2	615 mm
	C3	1139 mm
	F3	965 mm
Third Row	D1	---
	G1	---
	D2	---
	G2	---
	D3	---
	G3	---

Note: Use the center of anchorage.

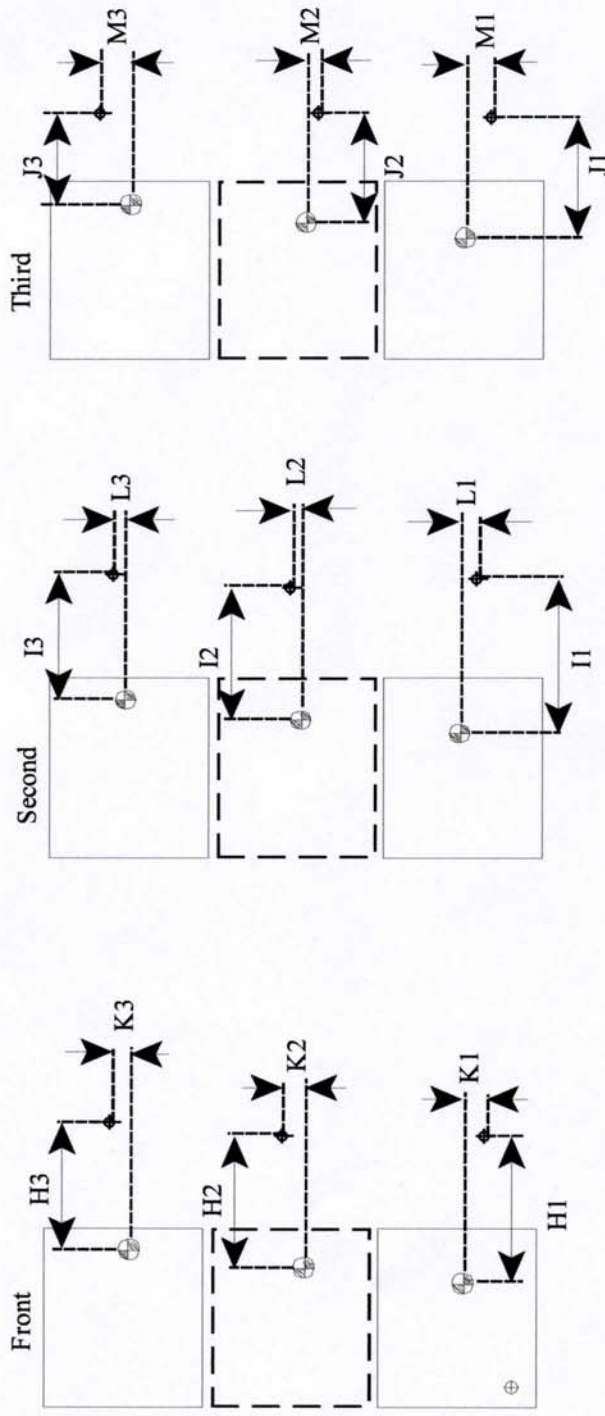
# TETHER ANCHORAGE LOCATIONS

FMVSS No. 225

(All dimensions in mm)

MODEL YEAR: 2007 / MAKE: Volkswagen / MODEL: Rabbit 4-DR / BODY STYLE: Hatchback

SEAT STYLE: FRONT ROW: \_\_\_\_\_ / SECOND ROW: \_\_\_\_\_ / THIRD ROW: \_\_\_\_\_



⊕: SRP

◆: Tether anchorage

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

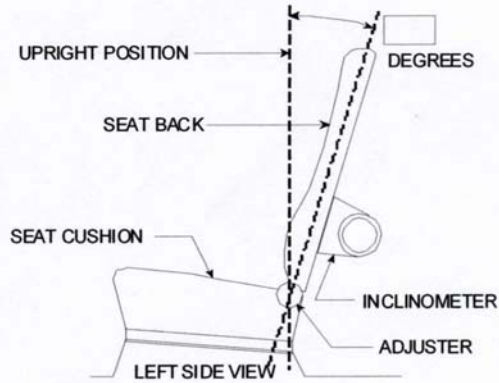
Table 3. Seating Reference Point and Tether Anchorage Locations

Seating Reference Point (SRP)	Distance from SRP	
Front Row	H1	---
	K1	---
	H2	---
	K2	---
	H3	---
	K3	---
Second Row	I1	377 mm
	L1	5 mm
	I2	484 mm
	L2	0 mm
	I3	377 mm
	L3	5 mm
Third Row	J1	---
	M1	---
	J2	---
	M2	---
	J3	---
	M3	---

Note: Use the center of anchorage.

## **NOMINAL DESIGN RIDING POSITION**

For adjustable driver, passenger, 2<sup>nd</sup> row and 3<sup>rd</sup> row seat backs, describe how to position the inclinometer to measure the seat back angle. Include a description of the location of the seat back adjustment latch detent if applicable. Indicate if applicable, how the detents are numbered (Is the first detent "0" or "1"?). Indicate if the seat back angle is measured with the dummy in the seat.



Seat back angle for driver's seat = 22° degrees.

### **Measurement Instructions:**

The position of the seat is 54 mm from the rearmost position and the middle position of the seat height adjustment.

Measured by inclinometer on the backside of the seat back between lower cross member and upper cross member.

---

Seat back angle for passenger's seat = 22° degrees.

### **Measurement Instructions:**

The position of the seat is 54 mm from the rearmost position and the middle position of the seat height adjustment.

Measured by inclinometer on the backside of the seat back between lower cross member and upper cross member.

---

Seat back angle for 2<sup>nd</sup> row seat = 26° degrees.

### **Measurement Instructions:**

Measured by inclinometer on the backside of the seat back.

---

Seat back angle for 3<sup>rd</sup> row seat = \_\_\_\_\_ degrees.

### **Measurement Instructions:**

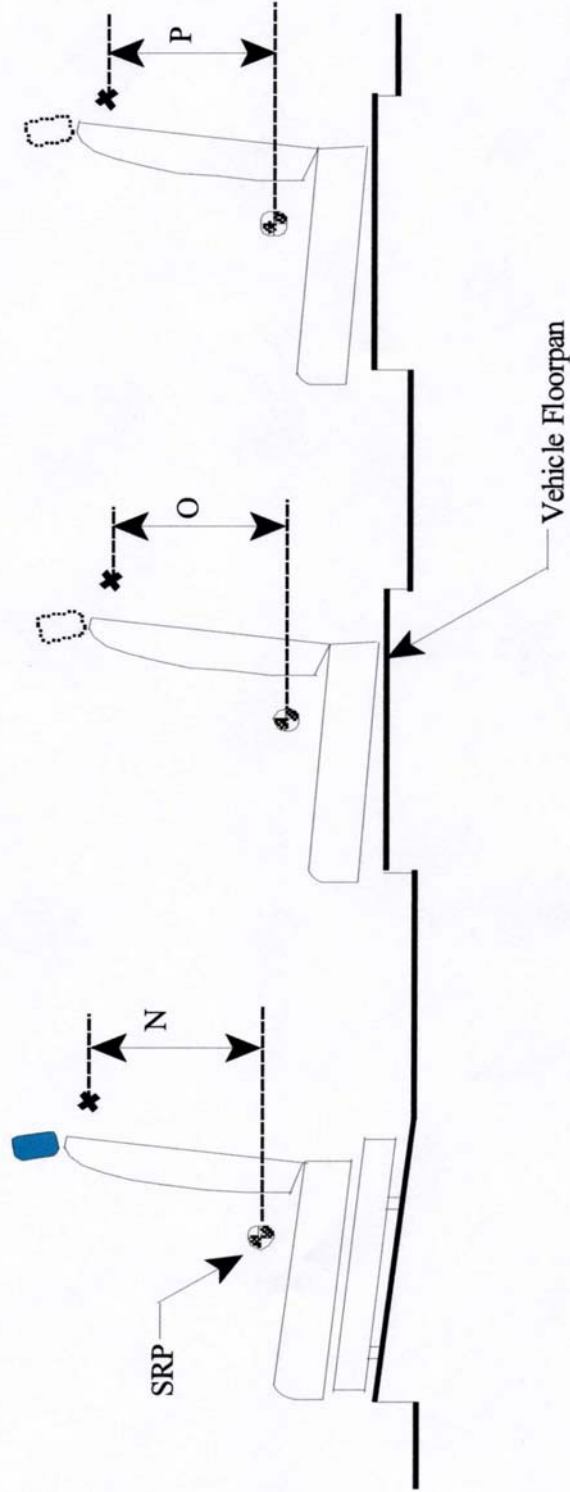
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# TETHER ANCHORAGE LOCATIONS - VERTICAL

FMVSS No. 225  
(All dimensions in mm)

MODEL YEAR: 2007 / MAKE: Volkswagen / MODEL: Rabbit 4-DR / BODY STYLE: Hatchback

SEAT STYLE: FRONT ROW: \_\_\_\_\_ / SECOND ROW: \_\_\_\_\_ / THIRD ROW: \_\_\_\_\_



LEFT SIDE VIEW OF TEST VEHICLE



Table 4. Vertical Dimension For The Tether Anchorage

Seating Row	Vertical Distance from Seating Reference Point
Front Row	N1 (Driver)
	N2 (Center)
	N3 (Right)
Second Row	O1 (Left)
	O2 (Center)
	O3 (Right)
Third Row	P1 (Left)
	P2 (Center)
	P3 (Right)

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

For each vehicle, provide the following information:

1. How many designated seating positions exist in the vehicle?

The vehicle has five designated seating positions.

2. How many designated seating positions are equipped with lower anchorages and tether anchorages? Specify which position(s).

In the second row, the two outboard seating positions are equipped with LATCH (Lower Anchors and Tethers for Children).

3. How many designated seating positions are equipped with tether anchorages? Specify which positions(s).

Seating positions 4, 5 and 6 are equipped with tether anchorages.

4. Lower Anchorages Marking and Conspicuity: Whether the anchorages are certified to S9.5(a) or S9.5(b) of FMVSS No. 225.

The anchorages are certified to S9.5(b).

APPENDIX C  
PLOTS

GTL 5984, NHTSA C75800

225, Row 2 Driver Side, Top Tether

