

REPORT NUMBER 225-GTL-06-001

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

**HONDA OF AMERICA MFG., INC.  
2006 HONDA CIVIC, PASSENGER CAR  
NHTSA NO. C65302**

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



OCTOBER 29, 2006

**FINAL REPORT**

**PREPARED FOR**

**U. S. DEPARTMENT OF TRANSPORTATION  
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION  
SAFETY ENFORCEMENT  
OFFICE OF VEHICLE SAFETY COMPLIANCE  
400 SEVENTH STREET, SW  
ROOM 6111 (NVS-220)  
WASHINGTON, D.C. 20590**

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## SECTION 1

### PURPOSE OF COMPLIANCE TEST

#### 1.0 PURPOSE OF COMPLIANCE TEST

A 2006 Honda Civic 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 2006 Honda Civic Passenger Car. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 1HGFA16576L054629

B. NHTSA No.: C65302

C. Manufacturer: HONDA OF AMERICA MFG., INC.

D. Manufacture Date: 01/06

#### 1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 225 testing during the time period July 14-19, 2006.

## 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 2006 HONDA CIVIC PASSENGER CAR did not appear 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 2006 Honda Civic Passenger Car.



DATA SHEET 1  
SUMMARY OF RESULTS

VEH. MOD YR/MAKE/MODEL/BODY: 2006 HONDA CIVIC PASSENGER CAR  
 VEH. NHTSA NO: C65302; VIN: 1HGFA16576L054629  
 VEH. BUILD DATE: 01/06; TEST DATE: JULY 14-19, 2006  
 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>      </u>	<u>X</u>
DSP b	<u>N/A</u>	<u>N/A</u>
DSP c	<u>      </u>	<u>X</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>  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>

**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  
Strength tests were not performed due to failure of lower anchorage dimensions and fit.

RECORDED BY:   G. Farrand  

DATE:   07/19/06  

APPROVED BY:   D. Messick

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

VEH. MOD YR/MAKE/MODEL/BODY: 2006 HONDA CIVIC PASSENGER CAR  
 VEH. NHTSA NO: C65302; VIN: 1HGFA16576L054629  
 VEH. BUILD DATE: 01/06; TEST DATE: JULY 14-19, 2006  
 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 a 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))

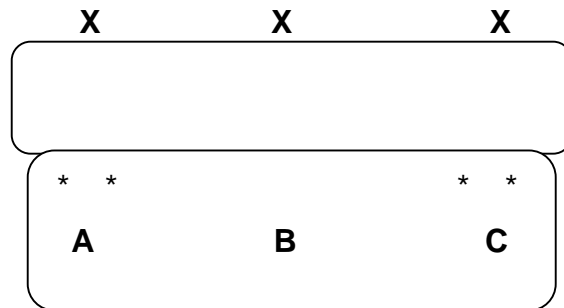
If the vehicle has 3 or more rear dsps and a non-outboard dsp, is a tether anchorage or CRAS provided at a non-outboard dsp?           YES          

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:           07/14/06          

APPROVED BY:           D. Messick

DATA SHEET 3  
LOCATION OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2006 HONDA CIVIC PASSENGER CAR  
 VEH. NHTSA NO: C65302; VIN: 1HGFA16576L054629  
 VEH. BUILD DATE: 01/06; TEST DATE: JULY 14-19, 2006  
 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 rear shelf behind 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? YES

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 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: 07/14/06APPROVED BY: D. Messick

DATA SHEET 3A  
LOCATION OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2006 HONDA CIVIC PASSENGER CAR  
 VEH. NHTSA NO: C65302; VIN: 1HGFA16576L054629  
 VEH. BUILD DATE: 01/06; TEST DATE: JULY 14-19, 2006  
 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 rear shelf behind 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? YES

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: 07/14/06APPROVED BY: D. Messick



DATA SHEET 3B  
LOCATION OF TETHER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2006 HONDA CIVIC PASSENGER CAR  
 VEH. NHTSA NO: C65302; VIN: 1HGFA16576L054629  
 VEH. BUILD DATE: 01/06; TEST DATE: JULY 14-19, 2006  
 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 rear shelf behind 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? YES

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: 07/14/06APPROVED BY: D. Messick

DATA SHEET 4  
LOWER ANCHORAGE DIMENSIONS

VEH. MOD YR/MAKE/MODEL/BODY: 2006 HONDA CIVIC PASSENGER CAR  
 VEH. NHTSA NO: C65302; VIN: 1HGFA16576L054629  
 VEH. BUILD DATE: 01/06; TEST DATE: JULY 14-19, 2006  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

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

Outboard Lower Anchorage bar diameter: 6.04 mm  
 $6\text{mm} \pm 0.1\text{ mm} = \text{PASS}$  Other size = FAIL (S9.1.1(a))

Inboard Lower Anchorage bar diameter: 6.04 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): 27 mm  
 Length  $\geq 25\text{mm}$  = PASS Length  $< 25\text{mm}$  = FAIL(S9.1.1(c) (i))

Length of the straight portion of the bar (inboard lower anchorage): 26 mm  
 Length  $\geq 25\text{mm}$  = PASS Length  $< 25\text{mm}$  = FAIL(S9.1.1(c) (i))

Length between the anchor bar supports (outboard lower anchorage): 30 mm  
 Length  $\leq 60\text{mm}$  = PASS Length  $> 60\text{mm}$  = FAIL(S9.1.1(c) (ii))

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

CRF Pitch angle: 13  
 Angle =  $15^\circ \pm 10^\circ$  = PASS Angle  $\neq 15^\circ \pm 10^\circ$  = FAIL (S9.2.1)

CRF Roll angle: 0.0  
 Angle =  $0^\circ \pm 5^\circ$  = PASS Angle  $\neq 0^\circ \pm 5^\circ$  = FAIL (S9.2.1)

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

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

Distance between point Z on the CRF and the front surface of inboard anchor bar: \*  
 Distance  $\leq 70\text{mm}$  = PASS Distance  $> 70\text{mm}$  = 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: 174 mm  
Distance  $\geq$  120mm = PASS      Distance  $<$  120mm = FAILDistance between SgRP and the front surface of inboard anchor bar: 175 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: \*CRF WILL NOT FIT ON INBOARD ANCHOR BAR DUE TO INTERFERENCE WITH SEAT BACK.

RECORDED BY: G. FarrandDATE: 07/19/06APPROVED BY: D. Messick

DATA SHEET 4A  
LOWER ANCHORAGE DIMENSIONS

VEH. MOD YR/MAKE/MODEL/BODY: 2006 HONDA CIVIC PASSENGER CAR  
 VEH. NHTSA NO: C65302; VIN: 1HGFA16576L054629  
 VEH. BUILD DATE: 01/06; TEST DATE: JULY 14-19, 2006  
 TEST LABORATORY: GENERAL TESTING LABORATORIES  
 OBSERVERS: GRANT FARRAND, JIMMY LATANE

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

Outboard Lower Anchorage bar diameter: 6.04 mm  
 6mm  $\pm$  0.1 mm = PASS Other size = FAIL (S9.1.1(a))

Inboard Lower Anchorage bar diameter: 6.04 mm  
 6mm  $\pm$  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): 27 mm  
 Length  $\geq$  25mm = PASS Length < 25mm = FAIL(S9.1.1(c) (i))

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

Length between the anchor bar supports (outboard lower anchorage): 30 mm  
 Length  $\leq$  60mm = PASS Length > 60mm = FAIL(S9.1.1(c) (ii))

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

CRF Pitch angle: 12.5  
 Angle =  $15^{\circ} \pm 10^{\circ}$  = PASS Angle  $\neq 15^{\circ} \pm 10^{\circ}$  = FAIL (S9.2.1)

CRF Roll angle: 0.0  
 Angle =  $0^{\circ} \pm 5^{\circ}$  = PASS Angle  $\neq 0^{\circ} \pm 5^{\circ}$  = FAIL (S9.2.1)

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

Distance between point Z on the CRF and the front surface of outboard anchor bar: 50 mm  
 Distance  $\leq$  70mm = PASS Distance > 70mm = FAIL

Distance between point Z on the CRF and the front surface of inboard anchor bar: \*  
 Distance  $\leq$  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: 190 mm  
Distance  $\geq$  120mm = PASS      Distance < 120mm = FAILDistance between SgRP and the front surface of inboard anchor bar: 190 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: \*CRF WILL NOT FIT ON INBOARD ANCHOR BAR DUE TO INTERFERENCE WITH SEAT BACK.

RECORDED BY: G. FarrandDATE: 07/19/06APPROVED BY: D. Messick

DATA SHEET 5  
CONSPICUITY AND MARKING OF LOWER ANCHORAGES

VEH. MOD YR/MAKE/MODEL/BODY: 2006 HONDA CIVIC PASSENGER CAR

VEH. NHTSA NO: C65302; VIN: 1HGFA16576L054629

VEH. BUILD DATE: 01/06; TEST DATE: JULY 14-19, 2006

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: 15 mm

Diameter  $\geq 13\text{mm}$  = PASS

Diameter  $< 13\text{mm}$  = FAIL (S9.5(a)(1))

Does the circle have words, symbols or pictograms? SYMBOL

NO skip to next question

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

YES = PASS

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

Where is the circle located? Seat back or seat Cushion: Seat Back

For circles on seat backs, vertical distance from the center of the circle to the center of the anchor bar: 55 mm

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: 0

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? N/A

YES = PASS

NO = FAIL (S9.5(b))

If there is a guide, is it permanently attached? N/A

YES = PASS

NO = FAIL (S9.5(b))

## DATA SHEET 5 CONTINUED

DESIGNATED SEATING POSITION: ROW 2 LEFT SIDE AND RIGHT SIDE (DSP A & C)Is there a cap or cover over the anchor bar? N/A

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: 07/19/06APPROVED BY: D. Messick



DATA SHEET 6  
OWNER'S MANUAL

VEH. MOD YR/MAKE/MODEL/BODY: 2006 HONDA CIVIC PASSENGER CAR  
 VEH. NHTSA NO: C65302; VIN: 1HGFA16576L054629  
 VEH. BUILD DATE: 01/06; TEST DATE: JULY 14-19, 2006  
 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: YES

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

COMMENTS:

RECORDED BY: G. Farrand

DATE: 07/19/06

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	01/05	01/06
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	02/06	02/07
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



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.1  
LEFT SIDE VIEW OF VEHICLE





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.2  
RIGHT SIDE VIEW OF VEHICLE



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.3  
¾ FRONTAL VIEW FROM LEFT SIDE OF VEHICLE





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.4  
¾ REAR VIEW FROM RIGHT SIDE OF VEHICLE

MFD. BY HONDA OF AMERICA MFG., INC. 01/'06

GVWR 3671LBS GAWR F 1940LBS R 1731LBS

GVWR 1665KG GAWR F 880KG R 785KG

THIS VEHICLE CONFORMS TO ALL APPLICABLE  
FEDERAL MOTOR VEHICLE SAFETY, BUMPER,  
AND THEFT PREVENTION STANDARDS IN EFFECT  
ON THE DATE OF MANUFACTURE SHOWN ABOVE.

V.I.N.: 1HGFA16576L054629 TYPE: PASSENGER CAR



SNE 6

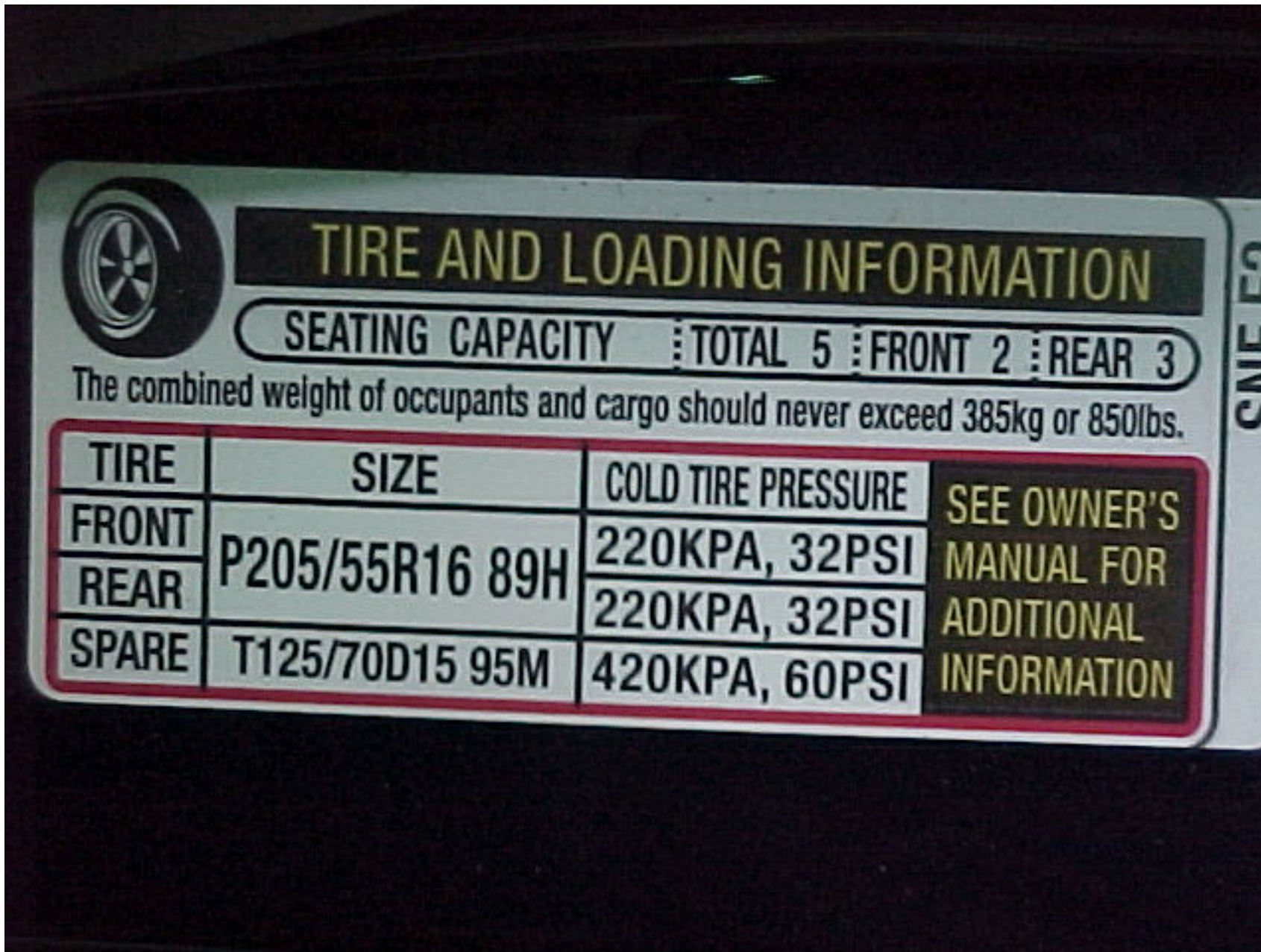
AF6

- B536P

- B

- L





2006 HONDA CIVIC  
 NHTSA NO. C65302  
 FMVSS NO. 225

FIGURE 5.6  
 VEHICLE TIRE INFORMATION LABEL



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.7  
LOCATIONS OF CHILD RESTRAINTS





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.8  
VISIBILITY OF LOWER RESTRAINTS



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.9  
PRE-TEST 2<sup>ND</sup> ROW RIGHT LOWER ANCHORS





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.10  
PRE-TEST 2<sup>ND</sup> ROW RIGHT TOP TETHER ANCHORS



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.11  
PRE-TEST 2<sup>ND</sup> ROW LEFT LOWER ANCHORS



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.12  
PRE-TEST 2<sup>ND</sup> ROW LEFT TOP TETHER ANCHOR



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NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.13  
PRE-TEST 2<sup>ND</sup> ROW CENTER TOP TETHER ANCHOR





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FIGURE 5.14  
CAP OVER TOP TETHER ANCHOR



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FIGURE 5.15  
LOWER ANCHOR BAR IDENTIFICATION





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FIGURE 5.16  
MEASUREMENT OF LOWER ANCHOR BAR ID.



2006 HONDA CIVIC  
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FMVSS NO. 225

FIGURE 5.17  
VIEW OF 2D TEMPLATE IN 2<sup>ND</sup> ROW RIGHT SEAT





2006 HONDA CIVIC  
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FMVSS NO. 225

FIGURE 5.18  
VIEW OF 2D TEMPLATE IN 2<sup>ND</sup> ROW RIGHT SEAT



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.19  
VIEW OF 2D TEMPLATE IN 2<sup>ND</sup> ROW LEFT SIDE





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.20  
VIEW OF 2D TEMPLATE IN 2<sup>ND</sup> ROW LEFT SEAT



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NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.21  
VIEW OF 2D TEMPLATE IN 2<sup>ND</sup> ROW CENTER  
SEAT





2006 HONDA CIVIC  
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FIGURE 5.22  
VIEW OF 2D TEMPLATE IN 2<sup>ND</sup> ROW CENTER  
SEAT



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FIGURE 5.23  
VIEW OF OUTBOARD "H" POINT MEASUREMENT  
RIGHT SEAT





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.24  
VIEW OF INBOARD "H" POINT MEASUREMENT  
RIGHT SEAT



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NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.25  
VIEW OF OUTBOARD "H" POINT MEASUREMENT  
IN 2<sup>ND</sup> ROW LEFT SEAT





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.26  
VIEW OF INBOARD "H" POINT MEASUREMENT  
LEFT SEAT



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.27  
VIEW OF CRF IN 2<sup>ND</sup> ROW RIGHT SEAT





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.28  
VIEW OF ANGLE MEASUREMENT 2<sup>ND</sup> ROW  
RIGHT SEAT



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.29  
VIEW OF OUTBOARD "Z" MEASUREMENT 2<sup>ND</sup> ROW  
RIGHT SEAT





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.30  
VIEW OF INBOARD ANCHOR FIT 2<sup>ND</sup> ROW RIGHT  
SEAT



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.31  
VIEW OF INBOARD ANCHOR FIT 2<sup>ND</sup> ROW RIGHT  
SIDE



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.32  
VIEW OF CRF FIXTURE IN 2<sup>ND</sup> ROW LEFT SEAT





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.33  
VIEW OF ANGLE MEASUREMENT IN 2<sup>ND</sup> ROW  
LEFT SEAT



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.34  
VIEW OF OUTBOARD "Z" MEASUREMENT IN 2<sup>ND</sup>  
ROW LEFT SEAT



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

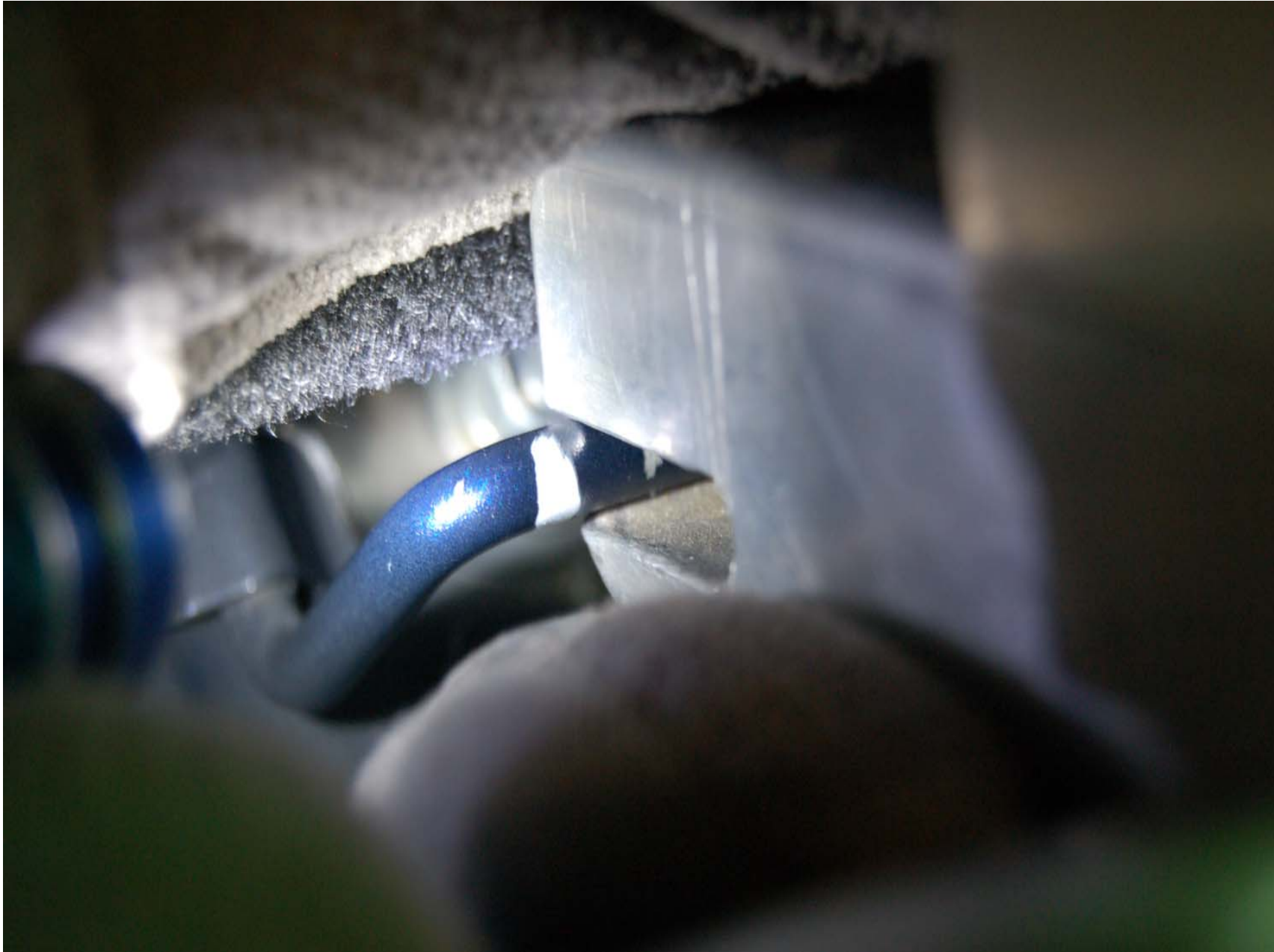
FIGURE 5.35  
VIEW OF INBOARD ANCHOR FIT 2<sup>ND</sup> ROW LEFT  
SEAT



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.36  
INTERFERENCE OF SEAT BACK FRAME





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.37  
INTERFERENCE OF SEAT BACK FRAME





2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.38  
INTERFERENCE OF SEAT BACK FRAME



2006 HONDA CIVIC  
NHTSA NO. C65302  
FMVSS NO. 225

FIGURE 5.39  
INTERFERENCE OF SEAT BACK FRAME

APPENDIX A  
OWNER'S MANUAL CHILD RESTRAINT INFORMATION



## Selecting a Child Seat, Installing a Child Seat

2. **The child seat should be of the proper type and size to fit the child.** Rear-facing for infants, forward-facing for small children.

3. **The child seat should fit the vehicle seating position (or positions) where it will be used.**

Before purchasing a conventional child seat, or using a previously purchased one, we recommend that you test the seat in the specific vehicle seating position, or positions, where the seat will be used.

### Installing a Child Seat

After selecting a proper child seat and a good place to install the seat, there are three main steps in installing the seat:

1. **Properly secure the child seat to the vehicle.** All child seats must be secured to the vehicle with the lap part of a lap/shoulder belt or with the LATCH (lower anchors and tethers for children) system. A child whose seat is not properly secured to the vehicle can be endangered in a crash.

2. **Make sure the child seat is firmly secured.** After installing a child seat, push and pull the seat forward and from side-to-side to verify that it is secure.

A child seat secured with a seat belt should be installed as firmly as possible. However, it does not need to be "rock solid." Some side-to-side

movement can be expected and should not reduce the child seat's effectiveness.

If the child seat is not secure, try installing it in a different seating position, or use a different style of child seat that can be firmly secured.

3. **Secure the child in the child seat.** Make sure the child is properly strapped in the child seat according to the child seat maker's instructions. A child who is not properly secured in a child seat can be seriously injured in a crash.

The following pages provide guidelines on how to properly install a child seat. A forward-facing child seat is used in all examples, but the instructions are the same for rear-facing child seats.

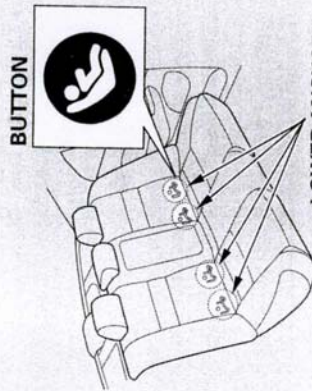
## Installing a Child Seat

### Installing a Child Seat Using LATCH

Your vehicle is equipped with LATCH (lower anchors and tethers for children) at the outer rear seats.

The lower anchors are located between the seat-back and seat bottom, and are to be used only with a child seat designed for use with LATCH.

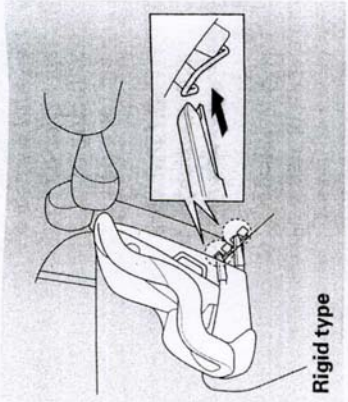
The location of each lower anchor is indicated by a small button above the anchor point.



### LOWER ANCHORS

To install a LATCH-compatible child seat:

1. Move the seat belt buckle or tongue away from the lower anchors.
2. Make sure there are no objects near the anchors that could prevent a secure connection between the child seat and the anchors.



### Rigid type

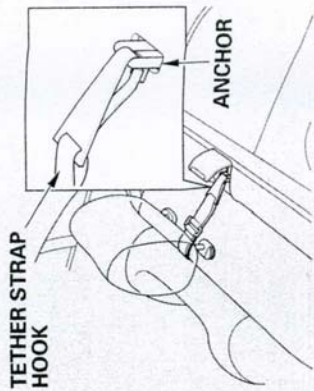
3. Place the child seat on the vehicle seat, then attach the seat to the lower anchors according to the child seat maker's instructions.

Some LATCH-compatible seats have a rigid-type connector as shown above.

# Installing a Child Seat

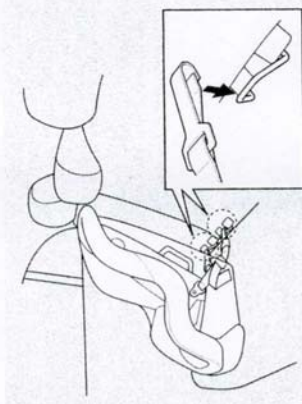
6. Attach the tether strap hook to the tether anchor, then tighten the strap as instructed by the child seat maker.

7. Push and pull the child seat forward and from side-to-side to verify that it is secure.



5. Lift the head restraint (see page 89 ), then route the tether strap through the legs of the head restraint and over the seat-back, making sure the strap is not twisted.

If the tether strap is too long and cannot be tightened firmly, find a route where the strap can be tightened securely.



### Flexible type

Other LATCH-compatible seats have a flexible-type connector as shown above.

4. Whatever type you have, follow the child seat maker's instructions for adjusting or tightening the fit.

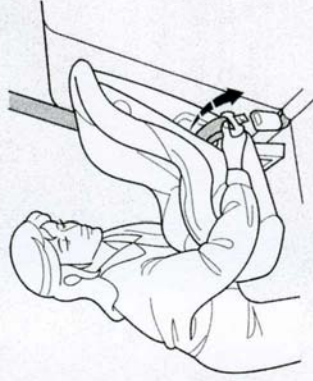


## Installing a Child Seat

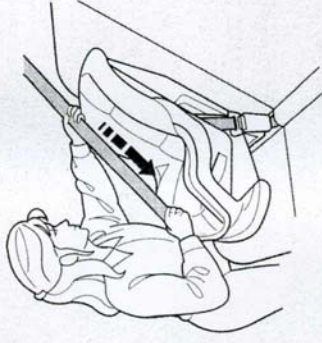
### Installing a Child Seat with a Lap/Shoulder Belt

When not using the LATCH system, all child seats must be secured to the vehicle with the lap part of a lap/shoulder belt.

In addition, the lap/shoulder belts in all seating positions except the driver's have a locking mechanism that must be activated to secure a child seat.



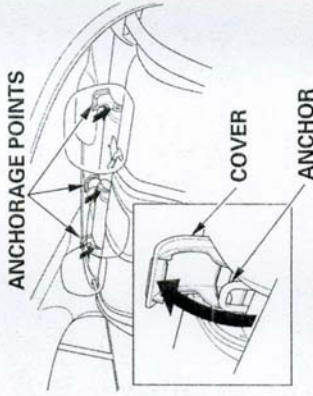
1. With the child seat in the desired seating position, route the belt through the child seat according to the seat maker's instructions, then insert the latch plate into the buckle.



2. To activate the lockable retractor, slowly pull the shoulder part of the belt all the way out until it stops, then let the belt feed back into the retractor.
3. After the belt has retracted, tug on it. If the belt is locked, you will not be able to pull it out. If you can pull the belt out, it is not locked, and you will need to repeat these steps.

## Installing a Child Seat

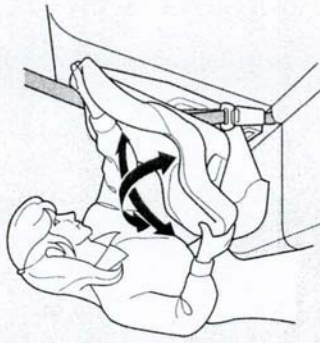
### Installing a Child Seat with a Tether



A child seat with a tether can be installed in any seating position in the back seat, using one of the anchorage points shown above.

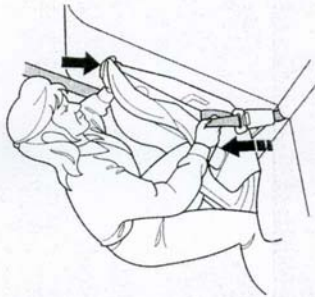
Since a tether can provide additional security to the lap/shoulder belt installation, we recommend using a tether whenever one is required or available.

CONTINUED



5. Push and pull the child seat forward and from side-to-side to verify that it is secure enough to stay upright during normal driving maneuvers. If the child seat is not secure, unlatch the belt, allow it to retract fully, then repeat these steps.

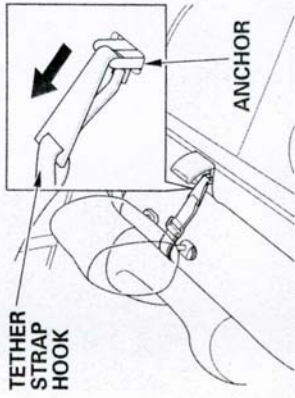
To deactivate the locking mechanism and remove a child seat, unlatch the buckle, unroute the seat belt, and let the belt fully retract.



4. After confirming that the belt is locked, grab the shoulder part of the belt near the buckle, and pull up to remove any slack from the lap part of the belt. Remember, if the lap part of the belt is not tight, the child seat will not be secure.

To remove slack, it may help to put weight on the child seat, or push on the back of the seat while pulling up on the belt.

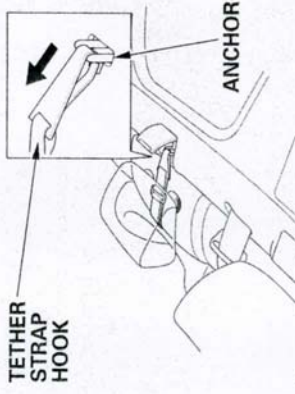
## Installing a Child Seat



**Outer Position**

1. After properly securing the child seat (see page 46), lift the head restraint, then route the tether strap over the seat-back and through the head restraint legs.

If the tether strap is too long and cannot be tightened firmly, find a route where the strap can be tightened securely.



**Center Position**

2. Lift the anchor cover, then attach the tether strap hook to the anchor, making sure the strap is not twisted.
3. Tighten the strap according to the seat maker's instructions.

APPENDIX B  
MANUFACTURER'S DATA



**SEAT REFERENCE POINT (SRP) AND TORSO ANGLE DATA**  
**FOR FMVSS 225**  
 (All dimensions in mm<sup>1</sup>)

Model Year: 2006; Make: HONDA; Model: CIVIC Sedan; Body Style: 4-Door Sedan  
 Seat Style: Front row: Bucket; Second row: Bench; Third row: N/A

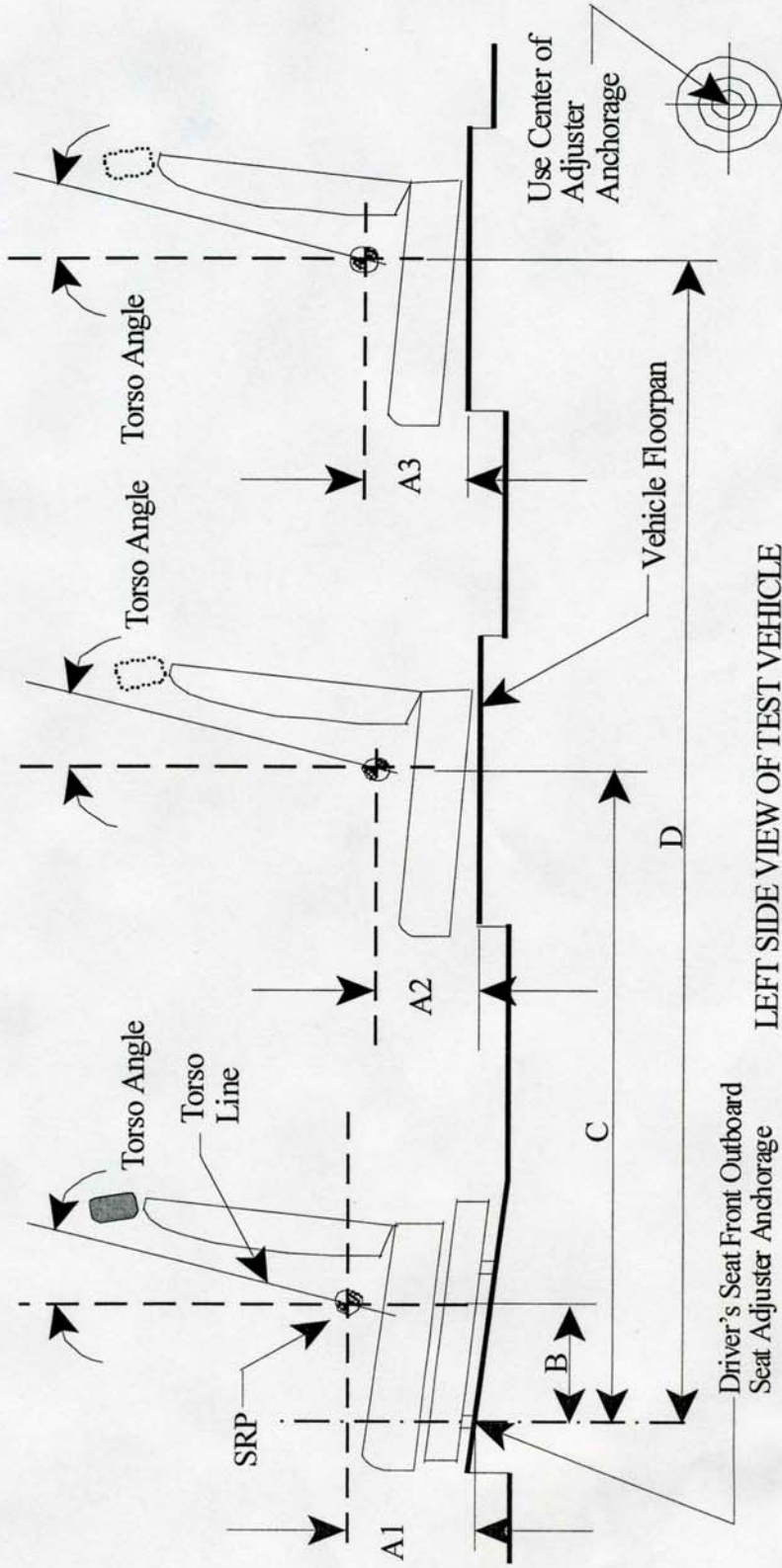


Table 1. Seating Positions<sup>1</sup> and Torso Angles

	Left (Driver Side)	Center (if any)	Right
A1	(Driver) 220	N/A	(Front Passenger) 220
A2	252	265	252
A3	N/A	N/A	N/A
B	284	N/A	284
C	1094	1054 (with Armrest) 1064 (without Armrest)	1094
D	N/A	N/A	N/A
Torso Angle (degree)	Front Row	N/A	23°
	Second Row	24°	26°
	Third Row	N/A	N/A

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

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

Model Year: 2006 ; Make: HONDA ; Model: CIVIC Sedan ; Body Style: 4-Door Sedan  
 Seat Style: Front row: Bucket ; Second row: Bench ; Third row: N/A

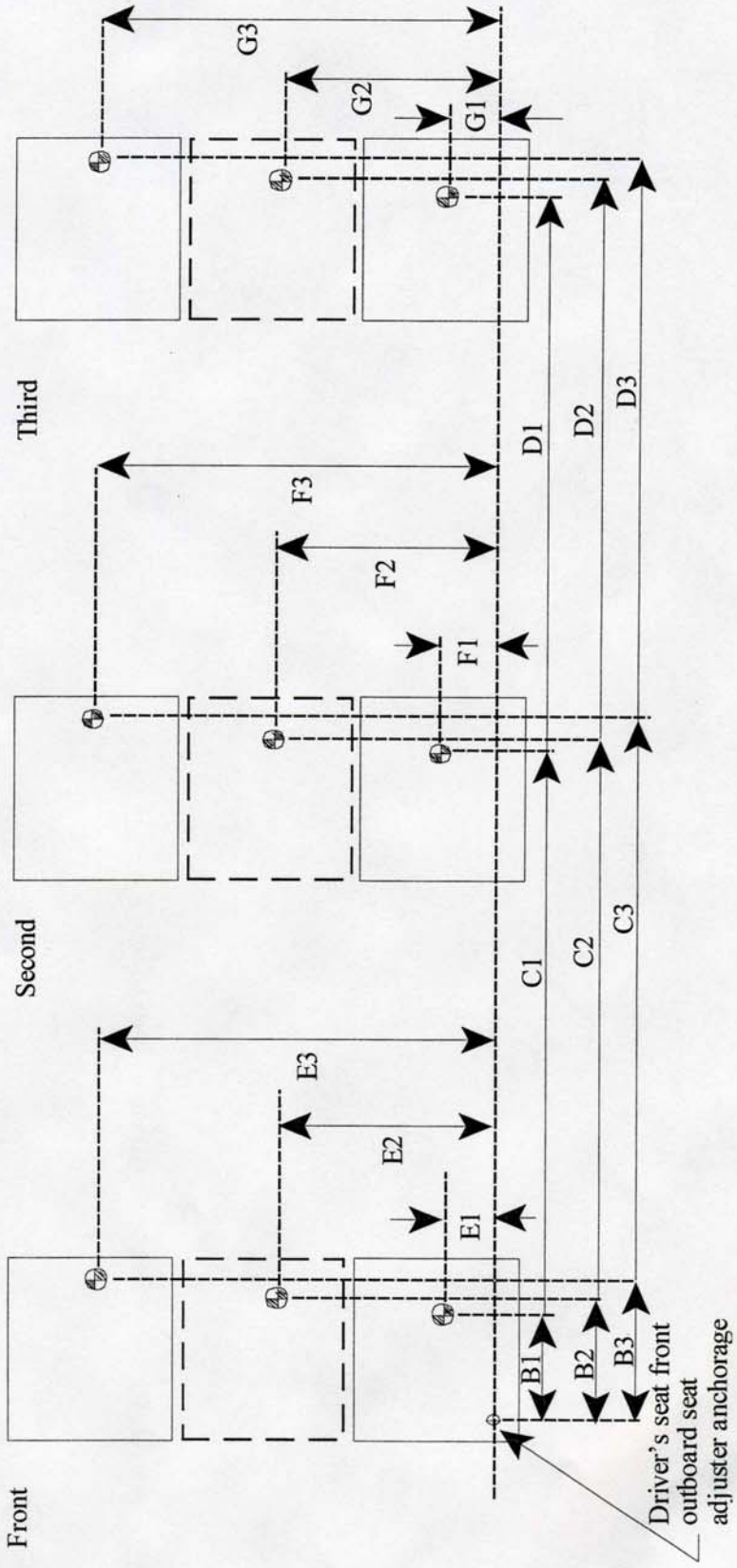


Table 2. Seating Reference Point and Tether Anchorage Locations

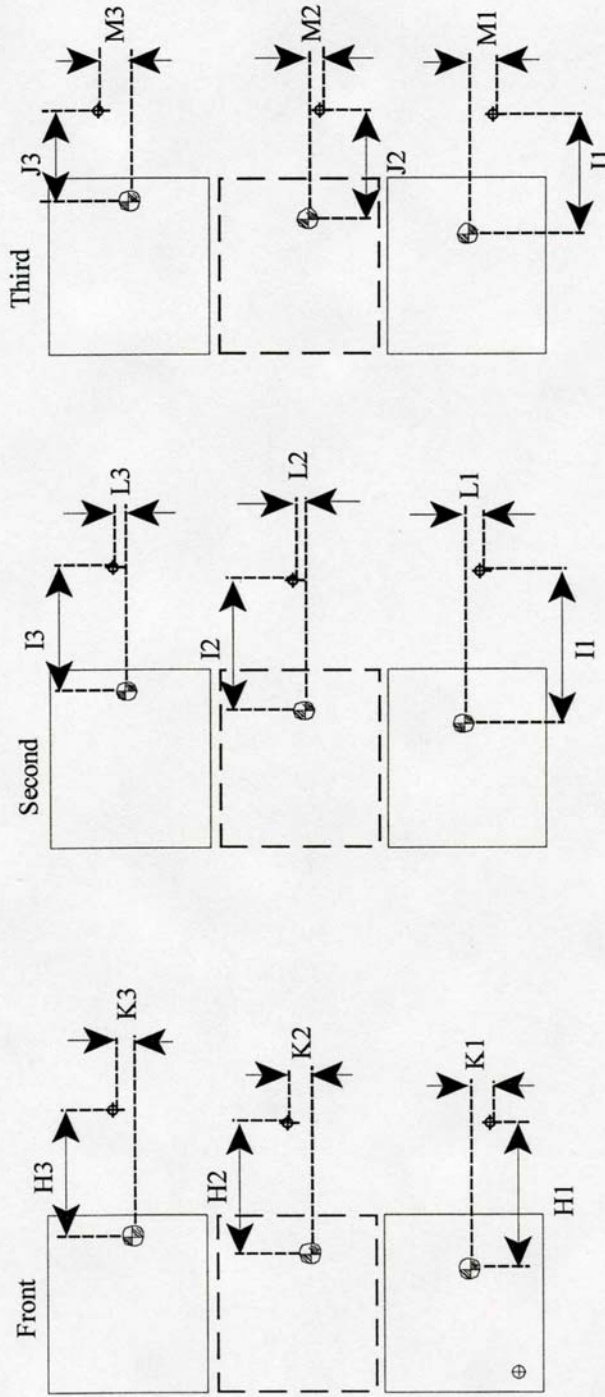
Seating Reference Point (SRP)		Distance from Driver's front outboard seat adjuster anchorage <sup>1</sup>
Front Row	B1	293
	E1	212
	B2	N/A
	E2	N/A
	B3	293
	E3	912
Second Row	C1	1094
	F1	232
	C2	1054 (with Armrest) 1064 (without Armrest)
	F2	562
	C3	1094
	F3	892
Third Row	D1	N/A
	G1	N/A
	D2	N/A
	G2	N/A
	D3	N/A
	G3	N/A

Note: 1. Use the center of anchorage.



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

Model Year: 2006 ; Make: HONDA ; Model: CIVIC Sedan ; Body Style: 4-Door Sedan  
 Seat Style: Front row: Bucket ; Second row: Bench ; Third row: N/A



⊕: SRP  
 ◆: Tether anchorage

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

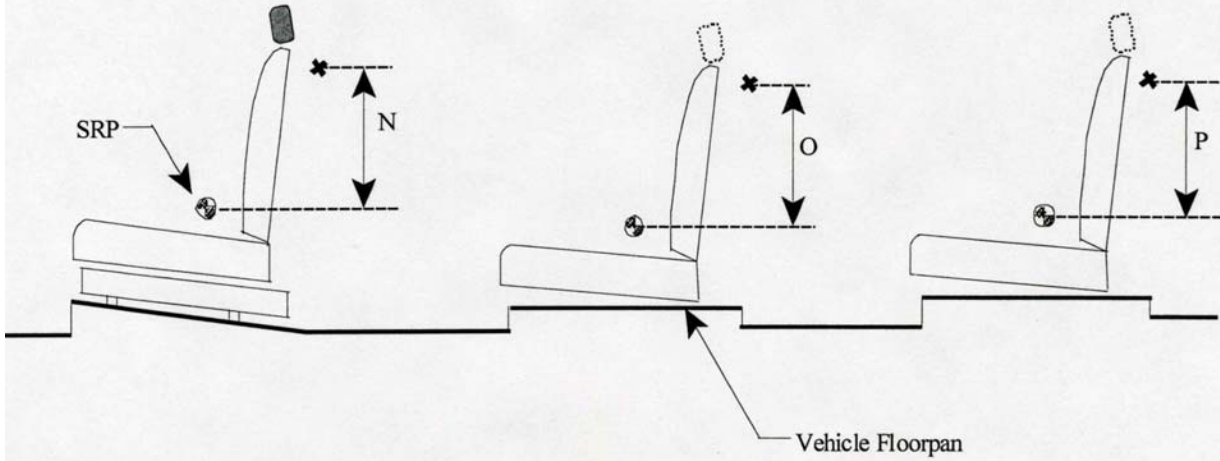
Table 3. Seating Reference Point and Tether Anchorage Locations

Seating Reference Point (SRP)	Distance from SRP	
Front Row	H1	N/A
	K1	N/A
	H2	N/A
	K2	N/A
	H3	N/A
	K3	N/A
Second Row	I1	491.5
	L1	5.5
	I2	532 (with Armrest) 522(without Armrest)
	L2	0.0
	I3	491.5
	L3	5.5
Third Row	J1	N/A
	M1	N/A
	J2	N/A
	M2	N/A
	J3	N/A
	M3	N/A

Note: 1. Use the center of anchorage.

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

Model Year: 2006; Make: HONDA; Model: CIVIC Sedan ;  
Body Style: 4-Door Sedan  
Seat Style: Front row: Bucket ; Second row: Bench ; Third row: N/A



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)	N/A
	N2 (Center)	N/A
	N3 (Right)	N/A
Second Row	O1 (Left)	520
	O2 (Center)	507
	O3 (Right)	520
Third Row	P1 (Left)	N/A
	P2 (Center)	N/A
	P3 (Right)	N/A

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



For each vehicle, provide the following information:

1. **How many designated seating positions exist in the vehicle?**  
Five positions
  
2. **How many designated seating positions are equipped with lower anchorages and tether anchorages? Specify which position(s).**  
There are four lower anchorages and three tether anchorages.  
Lower anchorages are equipped at the outer rear seat.  
Tether anchorages are equipped at the any seating position in the rear seat.
  
3. **How many designated seating positions are equipped with tether anchorages? Specify which position(s).**  
There are three tether anchorages.  
Tether anchorages are equipped at the any seating position in the rear seat.
  
4. **Lower Anchorage Marking and Conspicuity:** Whether the anchorages are certified to S9.5(a) or S9.5(b) of FMVSS 225.  
It is certified with S9.5 (a) of FMVSS 225.

APPENDIX C  
LABORATORY NOTICE OF TEST FAILURE

LABORATORY NOTICE OF TEST FAILURE TO OVSC

FMVSS NO.: 225 TEST DATE: 07/19/06

LABORATORY: General Testing Laboratories, Inc.

CONTRACT NO.: DTNH22-02-D-01043; DELV. ORDER NO.: \_\_\_\_\_

LABORATORY PROJECT ENGINEER'S NAME: Grant Farrand

TEST VEHICLE MAKE/MODEL/BODY STYLE: 2006 HONDA CIVIC

VEHICLE NHTSA NO.: C65302 : VIN: 1HGFA16576L054629

VEHICLE MODEL YEAR: 2006 : BUILD DATE: 01/06

TEST FAILURE DESCRIPTION: Child restraint fixture (CRF) will not attach to lower anchor bars due to interference with the seat back assembly.

S225 REQUIREMENT, PARAGRAPH S9.3 :Adequate fit of lower anchorages. Shall be designed such that the CRF can be placed inside the vehicle and attached to the lower anchorages of each child restraint anchorage system.

NOTIFICATION TO NHTSA (COTR): John Finneran, Ed Chan, Bob Krauss

DATE: 07/21/06 BY: Grant Farrand

REMARKS: Inboard left side lower anchor and inboard right side lower anchor cannot be attached due to the child seat anchor butting into the seat back cushion frame assembly.