SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 202aS
HEAD RESTRAINTS – STATIC REQUIREMENTS

CHRYSLER GROUP LLC
2010 DODGE CHARGER SE, PASSENGER CAR
NHTSA NO. CA0302

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

August 5, 2010
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
### Final Report of FMVSS 202a Compliance Testing of a 2010 DODGE CHARGER SE, PASSENGER CAR

NHTSA No. CA0302

#### Author(s)
- Grant Farrand, Project Engineer
- Debbie Messick, Project Manager

#### Performing Organization Name and Address
General Testing Laboratories, Inc.  
1623 Leedstown Road  
Colonial Beach, Va  22443

#### Sponsoring Agency Name and Address
U.S. Department of Transportation  
1200 New Jersey Ave., S.E., Washington, DC   20590

#### Type of Report and Period Covered
Final Test Report  
June 24 – July 15, 2010

#### Abstract
Compliance tests were conducted on the subject, 2010 Dodge Charger SE 4-door Passenger Car in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-202aS-00 for the determination of FMVSS 202a compliance. Test failures identified were as follows:

NONE

#### Key Words
- Compliance Testing
- Safety Engineering
- FMVSS 202aS
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SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2010 Dodge Charger SE Passenger Car was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 202a 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 head restraints to reduce the frequency and severity of neck injury in rear end and other collisions.

1.1 The test vehicle was a 2010 Dodge Charger SE Passenger Car. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 2B3CA4CD2AH140890

B. NHTSA No.: CA0302

C. Manufacturer: CHRYSLER GROUP LLC

D. Manufacture Date: 10-09

E. Color: Brilliant Black

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 202a testing during the time period June 24 through July 15, 2010.
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-202aS-00 dated 22 December 2004.

Based on the test performed, the 2010 Dodge Charger SE Passenger Car appeared to meet the requirements of FMVSS 202a testing.
SECTION 3

COMPLIANCE TEST DATA

3.0 TEST DATA

The following data sheets document the results of testing on the 2010 Dodge Charger SE Passenger Car.
DATA SHEET 1 (1 of 2)
SUMMARY OF RESULTS

VEH. MOD YR/MAKE/MODEL/BODY STYLE: 2010 DODGE CHARGER SE PASSENGER CAR

VEH. NHTSA NO.: CA0302; VIN: 2B3CA4CD2AH140890

VEH. BUILD DATE: 10-09; TEST DATE: June 24-July 15, 2010

TEST LABORATORY: GENERAL TESTING LABORATORIES

OBSERVERS: G. FARRAND, J. LATANE

A. VISUAL INSPECTION OF TEST VEHICLE

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

RESULTS: OK for testing. Due to manufacture date of vehicle, rear DSP’s are not required to meet 202a requirements.

B. DIMENSIONAL REQUIREMENTS

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<th>PASS</th>
<th>FAIL</th>
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C. OWNER’S MANUAL

PASS   FAIL

    X    

D. REMOVABILITY

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E. NON-USE POSITION

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### SUMMARY OF RESULTS

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RECORDED BY: G. FARRAND
DATE: 07/15/10

APPROVED BY: D. MESSICK
DATA SHEET 2 (1 of 2)
DIMENSIONAL REQUIREMENTS FOR FIXED HEAD RESTRAINTS

VEH. NHTSA NO.: CA0302 TEST DATE: June 24, 2010

Seat Location: REAR DRIVER

Height Measurement

SAE J826 three-dimensional manikin torso angle: 29°

Striker to H-Point (mm): 285 Striker to H-Point angle: Down

Height, H (mm): 758

H > or = 800 mm for front seats.
H > or = 750 mm for rear seats with head restraints.

If the head restraint is less than the required height, check for passage of the 25 mm diameter sphere.

Width Measurement

If the manikin is moved between the Height measurement and the Width measurement, re-record the torso angle, striker to H-Point distance and angle.

Width is measured 65 mm below the measured Height, H.

Height, Hw (= H – 65): 693

Width, W (mm): 244

Width must be greater than or equal to 170 mm. If a vehicle has a front center designated seating position the front outboard head restraints must be greater than or equal to 254 mm.

Backset Measurement (Front Head Restraints Only)

Position the HRMD and record the following measurements.

HRMD torso angle:

Striker to H-Point (mm): Striker to H-Point angle:

Backset, B (mm): PASS FAIL

Backset must be less than or equal to 55 mm.
DATA SHEET 2 (2 of 2)
DIMENSIONAL REQUIREMENTS FOR FIXED HEAD RERAINTS

Gap Measurement

Number of gaps within the gap measurement zone: None

Least dimension of each gap (measured with a steel tape): 0

Size of each gap (measured with the spherical head form): 0

Gap Size

<table>
<thead>
<tr>
<th></th>
<th>None</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>PASS</td>
<td>FAIL</td>
</tr>
</tbody>
</table>

Gaps must be less than or equal to 60 mm.

RECORDED BY: J. Latane
DATE: 06/24/10

APPROVED BY: G. Farrand
DATA SHEET 2 (1 of 2)
DIMENSIONAL REQUIREMENTS FOR FIXED HEAD RESTRAINTS

VEH. NHTSA NO.: CA0302
TEST DATE: June 25, 2010

Seat Location: REAR PASSENGER

Height Measurement

SAE J826 three-dimensional manikin torso angle: 28.8°

Striker to H-Point (mm): 285
Striker to H-Point angle: Down

Height, H (mm): 752

\[
\begin{array}{c|c|c}
\text{Height, } H & \text{PASS} & \text{FAIL} \\
\hline
\geq 800 \text{ mm for front seats.} \\
\geq 750 \text{ mm for rear seats with head restraints.} \\
\end{array}
\]

If the head restraint is less than the required height, check for passage of the 25 mm diameter sphere.

Width Measurement

If the manikin is moved between the Height measurement and the Width measurement, re-record the torso angle, striker to H-Point distance and angle.

Width is measured 65 mm below the measured Height, H.

Height, \( H_w = H - 65 \): 687

\[
\begin{array}{c|c|c}
\text{Width, } W & \text{PASS} & \text{FAIL} \\
\hline
250 & \text{X} & \text{FAIL} \\
\end{array}
\]

Width must be greater than or equal to 170 mm. If a vehicle has a front center designated seating position the front outboard head restraints must be greater than or equal to 254 mm.

Backset Measurement (Front Head Restraints Only)

Position the HRMD and record the following measurements.

HRMD torso angle:

Striker to H-Point (mm):
Striker to H-Point angle:

Backset, B (mm): \( \leq 55 \) mm.
DATA SHEET 2 (2 of 2)
DIMENSIONAL REQUIREMENTS FOR FIXED HEAD RESTRAINTS

Gap Measurement

Number of gaps within the gap measurement zone: __________ None __________

Least dimension of each gap (measured with a steel tape): __________ 0 __________

Size of each gap (measured with the spherical head form): __________ 0 __________

Gap Size __________ None ____________ X__ PASS __________ FAIL

Gaps must be less than or equal to 60 mm.

RECORDED BY: ___ J. Latane _____________ DATE: __________ 06/25/10 ___

APPROVED BY: ____ G. Farrand ____________
DATA SHEET 2a (1 of 2)
DIMENSIONAL REQUIREMENTS FOR ADJUSTABLE HEAD RESTRAINTS

VEH. NHTSA NO.: CA0302 TEST DATE: 06/24/10

Seat Location: FRONT DRIVER

Height Measurement

SAE J826 three-dimensional manikin torso angle: 24°

Striker to H-Point (mm): 132 mm (Ahead) Striker to H-Point angle: Down

Position the head restraint in the highest position of vertical adjustment.
Height, Hh (mm): 815 mm X PASS FAIL

Hh > or = 800 mm for front seats.

If the head restraint is less than the required height, check for passage of the 25 mm diameter sphere. N/A

Position the head restraint in the lowest position of vertical adjustment.
Height, Hl (mm): 762 mm X PASS FAIL

Hl > or = 750 mm for front seats and rear seats with head restraints.

If the head restraint is less than the required height, check for passage of the 25 mm diameter sphere. N/A

Width Measurement

If the manikin is moved between the Height measurement and the Width measurement, re-record the torso angle, striker to H-Point distance and angle.

Position the head restraint in the highest position of vertical adjustment.

Width is measured 65 mm below the measured Height, Hh.

Height, Hw (= Hh – 65): 750 mm

Width, W (mm): 196 mm X PASS FAIL

Width must be greater than or equal to 170 mm. If a vehicle has a front center designated seating position the front outboard head restraints must be greater than or equal to 254 mm. N/A
DATA SHEET 2a (2 of 2)
DIMENSIONAL REQUIREMENTS FOR ADJUSTABLE HEAD RESTRAINTS

Backset Measurement (Front Head Restraints Only)

Position the HRMD and record the following measurements.

HRMD torso angle: _____24°_____

Striker to H-Point (mm): ___132 mm____ Striker to H-Point angle: ___UP____

Position the head restraint at a height greater than or equal to 750 mm and less than or equal to 800 mm for front head restraints. Exception: head restraint with lowest position higher than 800 mm, adjust to lowest position.

Backset, B (mm): _______46 mm_______ _____X____PASS _________FAIL

Backset must be less than or equal to 55 mm.

Gap Measurement

Position the head restraint in the lowest position of vertical adjustment.

Number of gaps within the gap measurement zone: None

Least dimension of each gap (measured with a steel tape): N/A

Size of each gap (as measured with the spherical head form):

Gap Size___________ N/A __________ _____X_____PASS __________FAIL

Gaps must be less than or equal to 60 mm.

REMARKS:

RECORDED BY: _____J. LATANE________ DATE: _____06/24/10_____

APPROVED BY: _____G. FARRAND_________
DATA SHEET 2a (1 of 2)
DIMENSIONAL REQUIREMENTS FOR ADJUSTABLE HEAD RESTRAINTS

VEH. NHTSA NO.: CA0302 TEST DATE: 06/25/10

Seat Location: FRONT PASSENGER

Height Measurement

SAE J826 three-dimensional manikin torso angle: 24°

Striker to H-Point (mm): 132 mm (Ahead) Striker to H-Point angle: Down

Position the head restraint in the highest position of vertical adjustment.

Height, Hh (mm): 810 mm

PASSEX ________ fail

Hh > or = 800 mm for front seats.

If the head restraint is less than the required height, check for passage of the 25 mm diameter sphere. N/A

Position the head restraint in the lowest position of vertical adjustment.

Height, Hl (mm): 755 mm

PASSEX ________ fail

Hl > or = 750 mm for front seats and rear seats with head restraints.

If the head restraint is less than the required height, check for passage of the 25 mm diameter sphere. N/A

Width Measurement

If the manikin is moved between the Height measurement and the Width measurement, re-record the torso angle, striker to H-Point distance and angle.

Position the head restraint in the highest position of vertical adjustment.

Width is measured 65 mm below the measured Height, Hh.

Height, Hw (= Hh – 65): 745 mm

Width, W (mm): 195 mm

PASSEX ________ fail

Width must be greater than or equal to 170 mm. If a vehicle has a front center designated seating position the front outboard head restraints must be greater than or equal to 254 mm. N/A
DATA SHEET 2a (2 of 2)
DIMENSIONAL REQUIREMENTS FOR ADJUSTABLE HEAD RESTRAINTS

Backset Measurement (Front Head Restraints Only)

Position the HRMD and record the following measurements.

HRMD torso angle: ______ 23.7°______

Striker to H-Point (mm): ___ 128 mm______ Striker to H-Point angle: ____Down____

Position the head restraint at a height greater than or equal to 750 mm and less than or equal to 800 mm for front head restraints. Exception: head restraint with lowest position higher than 800 mm, adjust to lowest position.

Backset, B (mm): ______ 37 mm______  _____ X ____PASS ________FAIL

Backset must be less than or equal to 55 mm.

Gap Measurement

Position the head restraint in the lowest position of vertical adjustment.

Number of gaps within the gap measurement zone: None

Least dimension of each gap (measured with a steel tape): N/A

Size of each gap (as measured with the spherical head form):

Gap Size_______ N/A _______  _____ X ____PASS ________FAIL

Gaps must be less than or equal to 60 mm.

REMARKS:

RECORDED BY: _J. LATANE_ __________ DATE: ______06/25/10_________

APPROVED BY: _G. FARRAND_ __________
Emphasize that all occupants should place their head restraint in a proper position prior to operating the vehicle in order to prevent the risk of serious injury.

PASS X FAIL

Description of the head restraint system and identification of which seats are equipped.

PASS X FAIL

If the head restraint is removable, instructions on how to properly remove and reinstall using a deliberate action distinct from any act necessary for adjustment.

PASS X FAIL N/A

Warning that all head restraints must be reinstalled properly to protect occupants.

PASS X FAIL

Describe the adjustment of the head restraints and/or seat back to achieve proper head restraint position relative the head. The description must include the following:

1) a presentation and explanation of the main components of the vehicle's head restraints

2) the basic requirements for proper head restraint operation, including an explanation of the actions that may affect the proper functioning of the head restraints.

3) the basic requirements for proper positioning of a head restraint in relation to an occupant’s head position, including information regarding the proper positioning of the center of gravity of an occupant’s head in relation to the head restraint.

PASS X FAIL

Include copies of relevant pages from the owner's manual in the final report.

REMARKS:

RECORDED BY: G. FARRAND DATE: 06/24/10

APPROVED BY: D. MESSICK
DATA SHEET 4
REMOVABILITY

VEH. NHTSA NO.: CA0302 TEST DATE: 06/24/10

Are the head restraints removable? X YES NO

If removable, does removal REQUIRE an action distinct from actions to adjust the head restraint? X YES (PASS) NO (FAIL)

Description of action(s) for head restraint adjustment:

1. Raise the head restraint by pulling up on the head restraint.
2. Lower the head restraint by pressing and holding in the large release button while pushing down on the head restraint.

Description of distinct action for removal:

Push in large button on base of head restraint while also depressing small button with key or screw driver and pull up on the head restraint.

REMARKS:

RECORDED BY: G. FARRAND DATE: 06/24/10

APPROVED BY: D. MESSICK
DATA SHEET 5
ENERGY ABSORPTION TEST

VEH. NHTSA NO.: CA0302
TEST DATE: 07/15/10

Seat Location: REAR DRIVER
Type of head restraint: FIXED

Test Number: 6768

635 mm Height Measurement for lower boundary of the impact zone

SAE J826 three-dimensional manikin torso angle: 29°

Striker to H-Point (mm): 285 mm
Striker to H-Point angle: Down

Description of equipment or method used to rigidly fix the seat back: Telescoping steel tube screwed into top of seat back and rear floor of vehicle.

Accelerometer identification: FZ03
Accelerometer type/brand: ENDEVCO

Last calibration date: 07/10

Head form vertical angle (-2° - +2°): 0.0

Distance between head form and target location (> or = 25 mm): 50 mm

Impact velocity (23.6 kph ± 0.5 kph): 23.66 KpH

Impact location: Centerline of Headrest, 693 mm up from “H” Point

Maximum deceleration (< or = 785 m/s² (80 g)): 36 g PASS X FAIL

REMARKS:

RECORDED BY: G. FARRAND
DATE: 07/15/10

APPROVED BY: D. MESSICK
DATA SHEET 6
HEIGHT RETENTION TEST
(ADJUSTABLE HEAD RESTRAINTS ONLY)

VEH. NHTSA NO.: CA0302 TEST DATE: 07/14/10

Seat Location: DRIVER Test Number: 6766, 6767

Pre-test measurements

SAE J826 Manikin torso angle: 24° Top of Head Restraint Height (mm): 815 mm
Striker to H-Point (mm): 132 mm Striker to H-Point angle: Down

Description of height retention lock: Push button release on left post of head restraint.

Test measurements

Initial load (50 N ± 1 N): 51 N Initial Displacement, D1 (mm): 18.7 mm
Initial Displacement (D1) < 25 mm 18.7 mm PASS X FAIL
Maximum load (495 N ± 5 N): 495 N Maximum Displacement, D2 (mm): 74.5 mm
Post load (50 N ± 1 N): 50 N Return Displacement, D3 (mm): 26.1 mm
Total displacement (D3-D1) < 13 mm: 7.4 mm PASS X FAIL

REMARKS:

RECORDED BY: G. FARRAND DATE: 07/14/10
APPROVED BY: D. MESSICK
DATA SHEET 7
BACKSET RETENTION TEST

VEH. NHTSA NO.: CA0302 TEST DATE: 07/14/10

Seat Location: FRONT PASSENGER Type of head restraint: ADJUSTABLE

Test Number: 6762, 6763, 6764, 6765

Pre-test measurements

SAE J826 Manikin torso angle: 24° Top of Head Restraint Height (mm): 810 mm

Striker to H-Point (mm): 132 mm Striker to H-Point angle: Down

Displacement torso reference line

Test device back pan angle: 24°

Distance from the H-point to the initial location of the load (0.290 ± 0.013 m): 0.29 m

Initial load (N): 1286 N Initial moment (373 ± 7.5 Nm): 373 Nm

Backset retention and strength

Distance from the H-point to the head form tangency point (m): 0.745 m

Initial load (N): 50 N Initial moment (37 ± 0.7 Nm): 37 Nm

Initial head form displacement, D1 (< or = 25 mm): 19.2 mm PASS X FAIL

Load range to generate a 373 ± 7.5 Nm rearward moment (N): 501 N

Actual load applied (N): 501 N Resultant moment (Nm): 373 Nm

Maximum Head form displacement, D2 (< or = 102 mm): 69 mm PASS X FAIL

Final head form displacement, D3 (mm): 29.5 mm measured at (37 ± 0.7 Nm)

Total displacement (D3-D1) < 13 mm: 10.3 mm PASS X FAIL

Maximum applied load (> or equal to 885 N): 887 N PASS X FAIL

REMARKS:

RECORDED BY: G. FARRAND DATE: 07/14/10
APPROVED BY: D. MESSICK
### SECTION 4
INSTRUMENTATION AND EQUIPMENT LIST

#### TABLE 1 – INSTRUMENTATION & EQUIPMENT LIST

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<th>DESCRIPTION</th>
<th>MODEL/ SERIAL NO.</th>
<th>CAL. DATE</th>
<th>NEXT CAL. DATE</th>
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<td>02/11</td>
<td></td>
</tr>
<tr>
<td>LOAD CELL INTERFACE</td>
<td>38068</td>
<td>02/10</td>
<td>02/11</td>
<td></td>
</tr>
<tr>
<td>STRING POT WALDALE</td>
<td>102</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
<td></td>
</tr>
<tr>
<td>STRING POT CELESCO</td>
<td>69</td>
<td>BEFORE USE</td>
<td>BEFORE USE</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 5
PHOTOGRAPHS
FIGURE 5.2
RIGHT SIDE VIEW OF VEHICLE
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.3
¾ FRONTAL VIEW FROM LEFT SIDE OF VEHICLE
<table>
<thead>
<tr>
<th>TIRE</th>
<th>FRONT</th>
<th>REAR</th>
<th>SPARE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORIGINAL TIRE SIZE</td>
<td>P215/65R17</td>
<td>P215/65R17</td>
<td>T135/90D17</td>
</tr>
<tr>
<td>COLD TIRE INFLATION PRESSURE</td>
<td>210 kPa / 30 PSI</td>
<td>210 kPa / 30 PSI</td>
<td>420 kPa / 60 PSI</td>
</tr>
</tbody>
</table>

The combined weight of occupants and cargo should never exceed 392 KG OR 865 LB.

See owners manual for additional information.

AH140890
2010 DODGE CHARGER SE
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FIGURE 5.7
PRE-TEST VIEW OF DRIVER SEAT HEAD RESTRAINT IN HIGHEST POSITION
FIGURE 5.8
PRE-TEST VIEW OF PASSENGER SEAT HEAD RESTRAINT IN HIGHEST POSITION
FIGURE 5.9
PRE-TEST VIEW OF REAR DRIVER SEAT HEAD RESTRAINT
FIGURE 5.10
PRE-TEST VIEW OF PASSENGER SEAT HEAD RESTRAINT
31

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FIGURE 5.11
HEAD RESTRAINT ADJUSTMENT BUTTON
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.12
HEAD RESTRAINT REMOVE BUTTON
FIGURE 5.13
WIDTH MEASUREMENT OF FRONT DRIVER HEAD RESTRAINT
FIGURE 5.14
WIDTH MEASUREMENT OF FRONT PASSENGER HEAD RESTRAINT
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.15
WIDTH MEASUREMENT OF REAR DRIVER HEAD RESTRAINT
FIGURE 5.16
WIDTH MEASUREMENT OF REAR PASSENGER HEAD RESTRAINT
FIGURE 5.17
SAE J826 MANIKIN IN FRONT DRIVER SEAT
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.18
HRMD IN FRONT DRIVER SEAT
FIGURE 5.19
MEASUREMENT OF FRONT DRIVER BACKSET
2010 DODGE CHARGER SE
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FIGURE 5.20
SAE J826 MANIKIN IN FRONT PASSENGER SEAT
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.21
HRMD IN FRONT PASSENGER SEAT
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.22
MEASUREMENT OF FRONT PASSENGER BACKSET
FIGURE 5.24
SAE J826 MANIKIN IN REAR PASSENGER SEAT
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.25
PRE-TEST SET-UP FOR HEIGHT RETENTION
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.26
HEAD FORM AT 50 N PRE-LOAD
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.27
HEAD FORM AT 500 N LOAD
FIGURE 5.30
PRE-TEST SET-UP FOR BACKSET RETENTION
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.31
BACK PAN LOADED FOR DISPLACED TORSO LINE
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.32
HEAD RESTRAINT AT 37 Nm LOAD
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.33
HEAD RESTRAINT AT 373 Nm LOAD
FIGURE 5.34
HEAD RESTRAINT AT 37 Nm POST LOAD
2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.35
HEAD RESTRAINT AT 895 N LOAD
FIGURE 5.37
ENERGY ABSORPTION TEST SET-UP

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2010 DODGE CHARGER SE
NHTSA NO. CA0302
FMVSS NO. 202a

FIGURE 5.38
HEAD RESTRAINT PRE-TEST
2010 DODGE CHARGER SE
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FIGURE 5.39
HEAD RESTRAINT POST TEST
SECTION 6
TEST PLOTS
GTL 6762
202, Head Restraint Retention, Back pan

Time in Seconds

Force in Newtons/Disp. in MN/10
(Thousands)
GTL 6763
202, Head Restraint Retention, Headform

Time in Seconds

Force in Newtons/Disp. in MM/10 (Thousands)
GTL 6767
202, Head Restraint Retention, Vertical

Time in Seconds

Force in Newtons/Disp. in MM
Lumbar Support — If Equipped
This feature allows you to increase or decrease the amount of lumbar support. Turn the control lever forward to increase and rearward to decrease the desired amount of lumbar support.

Head Restraints
Head restraints can reduce the risk of injury in the event of a rear impact. The head restraint should be adjusted so the top of the head restraint is located above the top of your ear.

To raise the head restraint, pull upward on the head restraint. To lower the head restraint, press the large button, located on the base of the head restraint, and push downward on the head restraint.

Adjustable Head Restraint
To remove the head restraint, pull upward on the head restraint to its highest position, push in both buttons at the base of each head restraint rod, and simultaneously pull up on the head restraint.

Removing Head Restraint
To install the head restraint, insert the head restraint rods into each guide, apply pressure down on the headrest until the head restraint reaches the first lock position, push the large button in and push down and adjust head restraint to desired position.
NOTE: Ensure that the front of the head restraint is facing toward the front of the vehicle.

**WARNING!**

Driving a vehicle with the head restraints removed or improperly adjusted could cause serious injury or death in the event of a collision. The head restraints should always be checked prior to operating the vehicle and never adjusted while the vehicle is in motion. Always adjust the head restraints when the vehicle is in PARK.

Heated Seats — If Equipped

This feature heats the front driver and passenger seats. The controls for each front seat are located near the bottom center of the instrument panel.

After turning the ignition ON, you can choose from High, Low, or Off heat settings. Amber indicator lights in each switch indicate the level of heat in use. Two indicator lights will illuminate for High, one for Low and none for Off.

Press the switch once to select High-level heating. Press the switch a second time to select Low-level heating. Press the switch a third time to shut the heating elements Off.

If High-level heating is selected, the system will automatically switch to the Low-level after approximately 30 minutes of continuous operation. At that time, the number of indicators illuminated changes from two to one, indicating the change. Operation on the Low-level setting also turns off automatically after approximately 30 minutes.

NOTE: Once a heat setting is selected, heat will be felt within two to five minutes.