

TEST VEHICLE INFORMATION  
(FORM - 208)

FMVSS No. 208 Tests

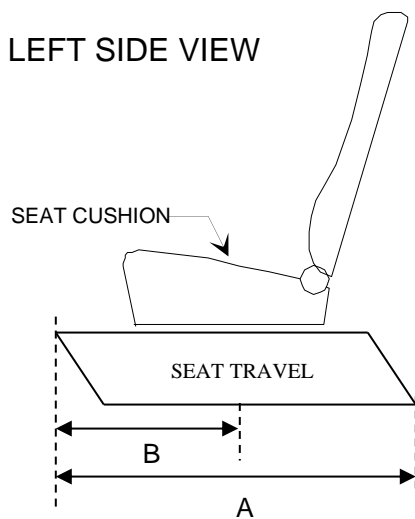
Vehicle Model Year and Make: \_\_\_\_\_

Vehicle Model and Body Style: \_\_\_\_\_

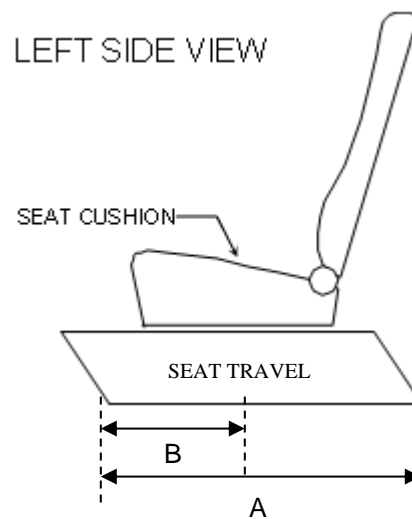
**1. SEAT FORE-AFT POSITION, CUSHION ANGLE, AND HEIGHT**

Provide instructions for positioning the driver, front outboard passenger, and rear passenger seat(s) in their testing positions. These diagrams assume that the seat will move forward if the seat cushion is moved upward in height.

**SEAT POSITIONING FOR  
50<sup>TH</sup> PERCENTILE MALE**  
(Part 572, Subpart E)



**SEAT POSITIONING FOR  
5<sup>TH</sup> PERCENTILE FEMALE**  
(Part 572, Subpart O)



A = Total range of seat travel; B = Mid-track position

For more clarification regarding foremost and rearmost seat positions, please refer to FMVSS No. 208 S8.1.2 (50<sup>th</sup> Male Driver) and FMVSS No. 208 S16.2.10.3 (5<sup>th</sup> Female Front Passenger).

**Please indicate the manufacturer of the 5th percentile female dummy used for FMVSS No. 208 crash test certification: \_\_\_\_\_**

**1.1 Driver’s Seat**

**1.1A Seat Fore-Aft Positioning**

Depending on the seat track adjuster type, complete one of the tables below.

<i>Manual Seat Track Adjuster</i>	
Total number of detents:	
Frontal impact test detent* (50 <sup>th</sup> percentile male):	
Frontal impact test detent* (5 <sup>th</sup> percentile female):	

\* For manual seat track adjustments, test detent is measured from foremost detent, which is defined as 0.

<i>Power Seat Track Adjuster</i>	
Complete range of travel as determined for FMVSS No. 208 frontal impact tests (mm):	
Frontal impact test distance from the foremost position (50 <sup>th</sup> percentile male):	
Frontal impact test distance from the foremost position (5 <sup>th</sup> percentile female):	

**1.1B Seat Cushion Angle**

If the seat cushion angle is adjustable while maintaining the test fore-aft seat track position, describe the angle used during certification testing and how to measure it. Include any reference points and photographs.

Dummy	Angle Used	Additional Description
Frontal Impact - 50 <sup>th</sup> Male		
Frontal Impact - 5 <sup>th</sup> Female		

**1.1C Seat Cushion Height**

If the seat and/or seat cushion height is adjustable at the test fore-aft seat track position and can be adjusted so that the seat cushion angle can be at the angle used in the certification test, describe the height used during certification testing and how to measure it. Include any reference points and photographs.

Dummy	Height Used	Additional Description
Frontal Impact - 50 <sup>th</sup> Male		
Frontal Impact – 5 <sup>th</sup> Female		

**1.1D Provide any other instructions for positioning the driver’s seat at the required test position(s):**

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**1.2 Front Outboard Passenger Seat**

**1.2A Seat Fore-Aft Positioning**

Depending on the seat track adjuster type, complete one of the tables below.

<i>Manual Seat Track Adjuster</i>	
Total number of detents:	
Frontal impact test detent* (50 <sup>th</sup> percentile male):	
Frontal impact test detent* (5 <sup>th</sup> percentile female):	

\* For manual seat track adjustments, test detent is measured from foremost detent, which is defined as 0.

<i>Power Seat Track Adjuster</i>	
Complete range of travel (mm):	
Frontal impact test distance from the foremost position (50 <sup>th</sup> percentile male):	
Frontal impact test distance from the foremost position (5 <sup>th</sup> percentile female):	

**1.2B Seat Cushion Angle**

If the seat cushion angle is adjustable while maintaining the test fore-aft seat track position, describe the angle used during certification testing and how to measure it. Include any reference points and photographs.

Dummy	Angle Used	Additional Description
Frontal Impact - 50 <sup>th</sup> Male		
Frontal Impact - 5 <sup>th</sup> Female		

**1.2C Seat Cushion Height**

If the seat and/or seat cushion height is adjustable at the test fore-aft seat track position and can be adjusted so that the seat cushion angle can be at the angle used in the certification test, describe the height used during certification testing and how to measure it. Include any reference points and photographs.

Dummy	Angle Used	Additional Description
Frontal Impact - 50 <sup>th</sup> Male		
Frontal Impact - 5 <sup>th</sup> Female		

**1.2D Provide any other instructions for positioning the front passenger seat at the required test position:**

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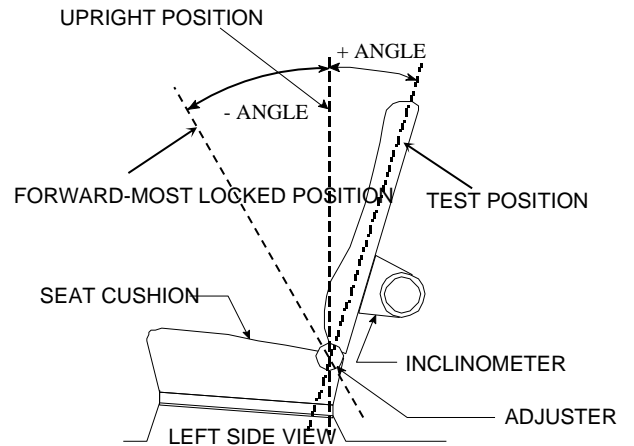
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**2. SEAT BACK ANGLE**

**2.1 Driver's Seat**

With the seat in the test fore-aft seat track position, what is the angle of the seat back when it is in the forward-most locked position?

Dummy	Angle
Frontal Impact – 50 <sup>th</sup> Male	
Frontal Impact – 5 <sup>th</sup> Female	



With the seat in the test fore-aft seat track position, what is the angle of the seat back when it is set to the **test** position? (Note: For the test with the 50<sup>th</sup> male dummy, this is the angle with the seat back set to the Nominal Design Riding Position. For the test with the 5<sup>th</sup> female dummy, this is the angle as determined by the related dummy seating procedure.)

Dummy	Angle
Frontal Impact – 50 <sup>th</sup> Male	
Frontal Impact – 5 <sup>th</sup> Female	

For the 50<sup>th</sup> percentile male, is the seat back angle measured with the dummy in the seat?

YES     NO

Describe any references used for measuring the seat back angle, e.g., door sill. (Include photograph(s).) *If possible, include measurement from bottom front of head rest post to outboard sun visor anchor, or from bottom back of head rest post to middle of rear door striker.*

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## 2.2 Front Outboard Passenger Seat

With the seat in the test seat track position, what is the angle of the seat back when it is in the forward-most locked position?

Dummy	Angle
Frontal Impact – 50 <sup>th</sup> Male	
Frontal Impact – 5 <sup>th</sup> Female	

With the seat in the test seat track position, what is the angle of the seat back when it is set to the **test** position? (Note: For the test with the 50th male dummy, this is the angle with the seat back set to the Nominal Design Riding Position. For the test with the 5th female dummy, this is the angle as determined by the related dummy seating procedure.)

Dummy	Angle
Frontal Impact – 50 <sup>th</sup> Male	
Frontal Impact – 5 <sup>th</sup> Female	

For the 50<sup>th</sup> percentile male, is the seat back angle measured with the dummy in the seat?

YES     NO

Describe any references used for measuring the seat back angle, e.g., door sill. (Include photograph(s).) *If possible, include measurement from bottom front of head rest post to outboard sun visor anchor, or from bottom back of head rest post to middle of rear door striker.*

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### 2.3 2<sup>nd</sup> Row Seats

With the seat in the mid fore-aft seat track position, what is the angle of the seat back when it is in the forward-most locked position?

Occupant Position	Angle
Left Seat	
Center Seat	
Right Seat	

With the seat in the mid fore-aft seat track position, what is the angle of the seat back when it is set to the Nominal Design Riding Position for a 50th percentile male?

Occupant Position	Angle
Left Seat	
Center Seat	
Right Seat	

Is the seat back angle measured with a dummy in the seat?  YES  NO

Describe any references used for measuring the seat back angle, e.g., door sill (include photographs).

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### 2.4 3rd Row Seats

With the seat in the mid fore-aft seat track position, what is the angle of the seat back when it is in the forward-most locked position?

Seating Position	Angle
Left Occupant	
Center Occupant	
Right Occupant	

With the seat in the mid fore-aft seat track position, what is the angle of the seat back when it is set to the Nominal Design Riding Position for a 50th percentile male?

Seating Position	Angle
Left Occupant	
Center Occupant	
Right Occupant	

Is the seat back angle measured with a dummy in the seat?  YES  NO

Describe any references used for measuring the seat back angle, e.g., door sill (include photographs).

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**3. ADJUSTABLE D-RING SEAT BELT ANCHORAGE POSITION**

**Nominal Design Position (NDP)**

Please complete the following table for adjustable seat belt anchorages.

Dummy	Total Range of Travel (mm)	Dist. from Upper-most Position to NDP (mm)	Total No. of Detents (if applicable)	Detent No. of NDP*
Driver/Front Passenger – 50 <sup>th</sup> Male				
Driver/Front Passenger – 5 <sup>th</sup> Female				

\* The detent number of the Nominal Design Position is counted with respect to the upper-most detent, which is defined as 0.

**4. SEAT BELT GUIDES**

Is this vehicle equipped with a seat belt guide for any of the following seating positions?

- Driver:  YES  NO  
 Right Front Passenger:  YES  NO  
 Rear Passengers:  YES  NO

If YES for any position, please provide instructions for use:

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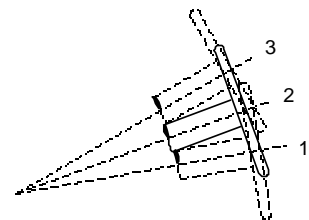


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**5. STEERING COLUMN AND WHEEL ADJUSTMENTS**

If the steering wheel and/or steering column adjustments are available, provide any specific procedures used to determine the geometric center of the locus the steering wheel hub describes when it is moved through its full range of driving positions.

STEERING COLUMN ASSEMBLY



LEFT SIDE VIEW

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Angle of the steering wheel with respect to vertical when the steering wheel hub is positioned at the geometric center of the locus it describes when it is moved through its full range of positions:	
Total number of detents:	
Test detent* when the wheel hub is positioned at the geometric center of the locus it describes when it is moved through its full range of positions:	

\* Test detent is taken with respect to the upper-most detent, which is defined as 0.

**6. SEATING REFERENCE POINT (SgRP)**

Please give the location of the Seating Reference Point (SgRP) for each vehicle seating position.

Seating Position	Coordinates (mm)		
	X (+ forward)	Y(+ right)	Z (+ down)
Left Front Row (Driver)			
Mid Front			
Right Front Row			
Left Second Row			
Mid Second Row			
Right Second Row			
Left Third Row			
Mid Third Row			
Right Third Row			

Describe any references used for measuring the SgRP, e.g., center of the front door striker. (Include photograph(s).)

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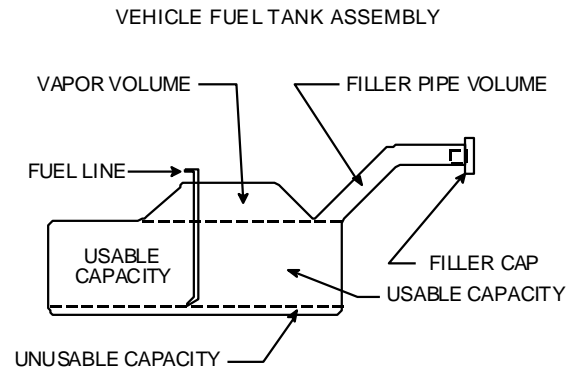
**7. DUMMY MEASUREMENTS FOR THE 50<sup>TH</sup> MALE AND 5<sup>TH</sup> FEMALE DUMMIES**

See the attached instructions and diagram and provide measurements for the 50<sup>th</sup> percentile male and 5<sup>th</sup> percentile female dummies in each of the following seat configurations when positioned for the FMVSS No. 208 crash test:

	HH	NR	CS	KDL/KDR	SH	SHY	HS
Driver (Manual Seat)							
Driver (Power Seat)							
Rt. Front Passenger (Manual Seat)		--	--				
Rt. Front Passenger (Power Seat)		--	--				



**8. FUEL TANK CAPACITY DATA**



"Usable capacity" of standard equipment fuel tank (gal):	
"Usable capacity" of optional equipment fuel tank (gal):	
Capacity used when certification testing to requirements of FMVSS No. 301 (gal):	

Operational instructions:

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Suggested methods for draining:

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Is the vehicle equipped with an electric fuel pump?

YES     NO

If YES, does the pump normally operate when the vehicle's electrical system is activated?

YES     NO

If YES, explain the vehicle operating conditions under which the fuel pump will pump fuel:

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Provide a drawing (or description) that shows the undercarriage view and/or location of the fuel tank.

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**9. OCCUPANT CLASSIFICATION SYSTEMS**

Are all frontal impact related air bags activated when 5<sup>th</sup> percentile female or 50<sup>th</sup> percentile male dummies are positioned in the front seats?

YES       NO

If NO, please provide system bypass information.

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**10. HEIGHT ADJUSTABLE SUSPENSION**

Does this vehicle have a height adjustable suspension? (Off-road modes that must be manually activated are not applicable.)

YES       NO

If YES, and the suspension does not automatically adjust to a default ride mode (comfort-ride, sport-ride, etc.) when the ignition is set to “on” (but, the engine is not running), please list and describe the ride mode options available on the vehicle, and discuss when and how they are activated.

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If YES above, designate ONE ride mode to be used for frontal crash tests and provide instructions for adjusting the test vehicle to that designated ride mode.

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**11. LIST OF REMOVABLE PARTS**

The following parts will be removed if the target test weight cannot be achieved:

Spare tire, rear door windows, rear radio speakers, interior door trim on the rear doors, rear seat cushions, outboard mirrors, taillights, rear bumper.

Please prioritize the items in this list in order of removal preference. Please make a note of any parts that should not be removed because they serve as load bearing or structural components and therefore, will likely affect test performance. Also, please feel free to add additional items which are not listed if their removal is deemed acceptable.

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**12. SPECIAL INSTRUCTIONS**

Please make note of any other special instructions that you would like NHTSA to consider or be made aware of for the tested vehicle (ex. towing setup, etc.):

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**13. SEAT LATCHING VERIFICATION PROCEDURE**

Describe, in as much detail as possible, your best practice for ensuring the proper engagement of any *manual* seat adjustment components into their proper seat track detents. This may include, but is not limited to: a description of the functionality of the manual seat adjustment mechanisms and all possible indications of full engagement, including visual, audial, and tactile methods of ensuring said engagement with tools such as a boroscope. Photographs and/or schematics along with suggestions of physical methods for ensuring engagement are highly suggested.

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**14. CRASH AVOIDANCE SYSTEMS**

Does this vehicle come equipped with any crash avoidance (CA) systems that could potentially affect frontal crash tests? Please keep in mind the test conditions specific to the test (ignition in the “ON” position and transmission in neutral).

YES       NO

If YES, please describe each affecting system’s operation below and be prepared to disable the specific CA system on test day. If a representative will not be present, you must provide the laboratory with detailed instructions on how to deactivate the system prior to test day.

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## DESCRIPTIONS OF DUMMY MEASUREMENTS

When a level is to be used, it is to ensure that the line containing the two points described is either parallel or perpendicular to the ground. If a measurement to be made is less than 10 inches ignore the directions to use a level and approximate a level measurement. Also, when a measurement is to be taken to or from the center of a bolt on the dummy, take the measurement from the center of the bolt hole if the bolt is recessed.

**The following measurements are to be made within a vertical longitudinal plane.**

HH - Head to Header, taken from the point where the dummy's nose meets his forehead (between his eyes) to the furthest point forward on the header.

CS - Steering Wheel to Chest, taken from the center of the steering wheel hub to the dummy's chest. Use a level.

NR - Nose to Rim, taken from the tip of the dummy's nose to the closest point on the top of the steering wheel rim. Also indicate the angle this line makes with respect to the horizontal (NA).

KDL, KDR - Left and Right Knees to Dashboard, taken from the center of the knee pivot bolt's outer surface to the closest point forward acquired by swinging the tape measure in continually larger arcs until it contacts the dashboard. Also reference the angle of this measurement with respect to the horizontal for the outboard knee (KDA).

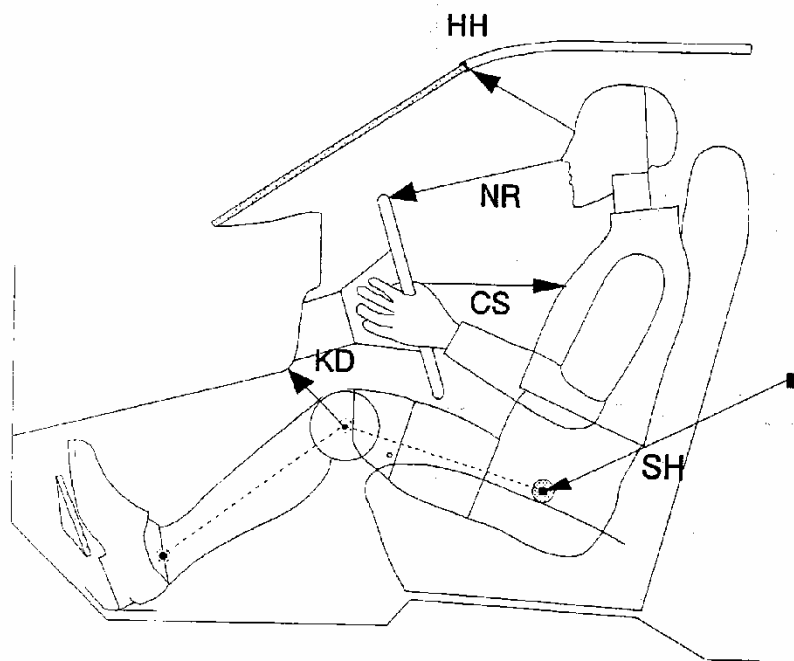
SH - Striker to Hip, this measurement is to be taken in the X-Z plane measured from the forward most center point on the striker to the center of the H-point. When taking this measurement a firm device that can be rigidly connected to the striker should be used. The measurement in the Y (transverse) direction from the striker to the H-point should also be taken (SHY).

**The following measurements are to be made within a vertical transverse plane.**

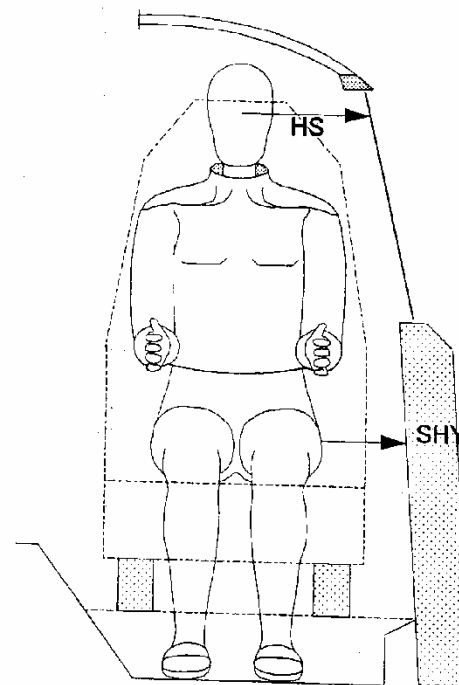
HS - Head to Side Window, taken from the point where the dummy's nose meets his forehead (between his eyes) to the outside of the side window. In order to make this measurement, roll the window down to the exact height which allows a level measurement. Use a level.

SHY - Striker to H-point, taken from a rod rigidly connected to the forward most center point on the striker to the H-point. Use a level.

## DUMMY MEASUREMENTS FOR FRONT SEAT PASSENGERS



HH - Head to Header  
NR - Nose to Rim  
CS - Steering Wheel to Chest  
KDL/KDR - Knee to Dash  
SH - Striker to H-Point



SHY - Striker to H-Point (Y Dir.)  
HS - Head to Side Window

July 10, 1992