Test Vehicle Instrumentation Plots

Acceleration Data - Filter Class 60
Integration Data - Filter Class 180
6/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
RIGHT SIDE SILL AT FRONT SEAT (X) ACCELERATION VS TIME (#1)

Customer: NHTSA

16SILBFR0000ACXD

TRC Inc. Test Lab: CTF
Test Number: 051017

Filter: CFC_60

Min. Value
-4.03 g at 7.20 ms

Max. Value
5.31 g at 51.12 ms

Time [ms]
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

RIGHT SIDE SILL AT FRONT SEAT (X) VELOCITY VS TIME (#1)

Customer: NHTSA
TRC Inc. Test Lab: CTF
Test Number: 051017

16SILBFR0000VEXC

Velocity [m/s]

-0.3
-0.4
-0.5
-0.6
-0.7
-0.8
-0.9
-1.0

Time [ms]

-80
-50
-20
0
20
50
100
150
200
250
300
350

Filter: CFC_180
Min. Value
-0.45 m/s at 51.32 ms
Max. Value
0.12 m/s at 56.08 ms
3/4 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
RIGHT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME (#1)

Customers NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

16SILBFR0000ACYD

Filter: CFC_60
Min. Value: -2.53 g at 80.40 ms
Max. Value: 29.41 g at 8.32 ms
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

RIGHT SIDE SILL AT FRONT SEAT (Z) ACCELERATION VS TIME (#1)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

16SILBFR0000ACZD

Filter: CPC_60

Min. Value
-9.97 g at 9.68 ms

Max. Value
5.56 g at 31.76 ms
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
RIGHT SIDE SILL AT FRONT SEAT (Z) VELOCITY VS TIME (#1)

Customer: NHTSA

16SILBFR0000VEZC

TRC Inc. Test Lab: CTF
Test Number: 051017

[Graph showing velocity vs time with negative velocities and time in milliseconds]

Filter: CFC_180

Min. Value: -0.61 m/s at 13.04 ms
Max. Value: 0.17 m/s at 84.96 ms

Time [ms]
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION VS TIME (#1)

Customer: NHTSA

16SILBFRO0000ACRD

TRC Inc. Test Lab: CKF
Test Number: 051017

Acceleration [g]

Time [ms]

Filter: CPC_60

Min. Value
0.01 g at -15.76 ms

Max. Value
31.00 g at 8.40 ms
1/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

RIGHT SIDE SILL AT REAR SEAT (X) ACCELERATION VS TIME (#2)

Customer: NHTSA

16SILBRE0000ACXD

TRC Inc. Test Lab: CFB
Test Number: 051017

<table>
<thead>
<tr>
<th>Acceleration [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Filter: CFC_60

Min. Value
-16.35 g at 8.80 ms

Max. Value
5.56 g at 51.12 ms

Time [ms]

0 100 200 300 400 500 600

0 50 100 150 200 250 300

0 5 10

-5

-10

-15

-20

P-30

051017
124 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

RIGHT SIDE SILL AT REAR SEAT (X) VELOCITY VS TIME (#2)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

16SILBRE0000VEXC

Velocity (m/s)

Filter: CFC_180

Min. Value
-0.95 m/s at 29.84 ms

Max. Value
0.03 m/s at 310.00 ms

Time [ms]


**Test Description:**

**24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse**

**Right Side Sill at Rear Seat (C) Acceleration vs Time (#2)**

**Customer:** NHTSA

**TRC Inc. Test Lab:** CTF

**Test Number:** 051017

**Graph Details:**

- **Graph Title:** 16SILBRE0000ACYD
- **Filter:** CPC_60
- **Min. Value:** -2.16 g at 79.28 ms
- **Max. Value:** 24.04 g at 7.52 ms

**Time (ms):**

The graph shows acceleration data over time, with a peak acceleration of 24.04 g at 7.52 ms and a minimum of -2.16 g at 79.28 ms.
**16SILBRE0000ACRD**

**Filter:** CPC_60

**Min. Value:** 0.01 g at -15.36 ms

**Max. Value:** 28.73 g at 8.24 ms
8/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
REAR FLOORPAN ABOVE AXLE (Y) ACCELERATION VS TIME (#3)

Customer: NHTSA

18F0RA000000ACYD

TRC Inc. Test Lab: CTF
Test Number: 051017

Acceleration [g]

-30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30

Filter: CFC_60
Min. Value
-1.60 g at 66.48 ms
Max. Value
25.66 g at 32.00 ms

Time [ms]

0 50 100 150 200 250 300 350

051017
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
REAR FLOORPAN ABOVE AXLE (Y) VELOCITY VS TIME (#3)

Customer: NHTSA

18FORA000000VEYC

TRC Inc. Test Lab: CTF
Test Number: 051017

Velocity vs Time Graph

Filter: CPC_180
Min. Value 0.00 m/s at 1.36 ms
Max. Value 8.95 m/s at 61.36 ms

Time [ms]
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION VS TIME (#3)

Customer: NHTSA

18FORA000000ACRD

TRC Inc. Test Lab: CTF
Test Number: 051017

Acceleration [g]

Time [ms]

Filter: CFC_60

Min. Value
0.01 g at -20.00 ms

Max. Value
25.96 g at 31.60 ms
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME (#5)

Customer: NHTSA

14SILBFR0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 051017

Filter: CPC_60

Min. Value
-34.73 g at 12.64 ms

Max. Value
47.11 g at 5.28 ms

Time [ms]
14SILBFR0000VEYC

Velocity (m/s)

-60 0 50 100 150 200 250 300

Filter: CPC_180

Min. Value: -0.01 m/s at 2.32 ms
Max. Value: 3.48 m/s at 74.96 ms

Time [ms]

Customer: NHTSA
Test Number: 051017

TRC Inc. Test Lab: CTF

Time: 12/15
1/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME

Customer: NHTSA

14SILBRE0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 651017

See Data Acquisition Explanations

Acceleration [g]

-1000
-750
-500
-250
0
250
500
750
1000

Time [ms]

-50
0
50
100
150
200
250
300
350

Filter: CPC_60

Min. Value
-792.55 g at 20.80 ms

Max. Value
616.44 g at 12.00 ms

0:15
4/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

See Data Acquisition Explanations

Filter: CPC_180

Min. Value
0.00 m/s at 1.12 ms

Max. Value
59.79 m/s at 18.40 ms
14SILBRE0000DCYC

See Data Acquisition Explanations

Filter: CPC_180
Min. Value: 0.00 m at 1.52 ms
Max. Value: 8.53 m at 310.00 ms
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

RIGHT REAR OCCUPANT COMPARTMENT (Y) ACCELERATION VS TIME (#7)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 851017

16VEHCRE0000ACYD

Acceleration [g]

Filter: CPC_60
Min. Value: -1.96 g at 79.12 ms
Max. Value: 25.37 g at 7.60 ms

Time [ms]

051017
1/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT LOWER A-POST (Y) ACCELERATION VS TIME (#14)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

Acceleration (m/s²)

Filter: CFC_60

Min. Value: -1,553.05 g at 22.00 ms
Max. Value: 81.76 g at 3.44 ms
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT LOWER A-POST (Y) VELOCITY VS TIME (#14)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

11APILLO0000VEYC

See Data Acquisition Explanations

Filter: CPC_180
Min. Value: -4.493.02 m/s at 310.00 ms
Max. Value: 2.29 m/s at 5.32 ms
1/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEF T MID A-POST (Y) ACCELERATION VS TIME (#15)

Customer: NHTSA

Test Number: 051017

TRC Inc. Test Lab: CTF

11APILM10000ACYD

See Data Acquisition Explanations

Filter: CFC_60

Min. Value: -1,640.37 g at 22.32 ms

Max. Value: 365.99 g at 15.84 ms
3/4 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT MID A-POST (Y) VELOCITY VS TIME (#15)

Customers NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

See Data Acquisition Explanations

Velocity [m/s]

Filter: CPC_180

Min. Value
-3,566.59 m/s at 310.00 ms

Max. Value
20.76 m/s at 17.68 ms

Time [ms]
90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT LOWER B-POST (Y) ACCELERATION VS TIME (#12)

Customer: NHTSA

14BPILO0000ACYD

TRC Inc. Test Lab: CTF
Test Number: 051017

Filter: CFC_60

Min. Value: -18.52 g at 28.40 ms
Max. Value: 142.79 g at 6.32 ms
1/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

Customer: NHTSA

14BPILO0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 051017

Filter: CPC_180

Min. Value
0.00 m/s at 0.80 ms

Max. Value
10.19 m/s at 74.32 ms

Time [ms]
TRL 3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT MID B-POST (X) ACCELERATION VS TIME (#13)

Customer: NHTSA
TRC Inc. Test Lab: CTF
Test Number: 051017

14BPILMI0000ACYD

<table>
<thead>
<tr>
<th>Acceleration [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
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<tr>
<td>75</td>
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<tr>
<td>50</td>
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<tr>
<td>25</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>-25</td>
</tr>
<tr>
<td>-50</td>
</tr>
</tbody>
</table>

Filter: CFC_60
Min. Value
-42.20 g at 29.04 ms
Max. Value
88.96 g at 16.16 ms
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT FRONT SEAT TRACK (Y) VELOCITY VS TIME (#16)

Customers: NHTSA

11SETRFR0000VEYC

TRC Inc. Test Lab: CTF
Test Number: 051017

![Graph showing velocity vs time for a 90 degree side impact test on a 2006 Mitsubishi Eclipse.](image-url)

Filter: CFC_180

Min. Value: 0.00 m/s at 1.28 ms

Max. Value: 6.90 m/s at 67.36 ms

Time [ms]
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

LEFT REAR SEAT TRACK (Y) ACCELERATION VS TIME

Customers: NHTSA

Test Number: 051017

TRC Inc. Test Lab: CTF

14SETRLERE00ACYD

Min. Value
-1.39 g at 80.96 ms

Max. Value
22.67 g at 37.44 ms

Filter: CPC_60

Time [ms]
VEHICLE CENTER OF GRAVITY (X) VELOCITY VS TIME (#18)

Customer: NHTSA

Test Number: 051017

Filter: CPC_180

Min. Value: -1.34 m/s at 47.92 ms

Max. Value: 0.01 m/s at 6.48 ms
TRC Leg 24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

VEHICLE CENTER OF GRAVITY CY VELOCITY VS TIME (#18)

Customer: NHTSA
TRC Inc. Test Lab: CTF
Test Number: 051017

10VEHCCG0000VEYC

Filter: CFC_180

Min. Value
-0.01 m/s at 5.92 ms

Max. Value
7.32 m/s at 52.56 ms
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

VEHICLE CENTER OF GRAVITY (Z) ACCELERATION VS. TIME (#18)

Customer: NHTSA

10VEHCCG0000ACZD
TRC Inc. Test Lab: CTF
Test Number: 051017

Acceleration [g]

Filter: CPC_60
Min. Value: -27.58 g at 61.36 ms
Max. Value: 30.37 g at 16.00 ms

Time [ms]
MDB Instrumentation Plots

Acceleration Data - Filter Class 60
Integration Data - Filter Class 180
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

MDB CENTER OF GRAVITY (X) ACCELERATION VS TIME (#1)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

M0VEHCCG0000ACXD

Acceleration [g]

Filter: CPC_60
Min. Value
-22.08 g at 38.08 ms
Max. Value
4.50 g at -12.40 ms

Time [ms]
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

MDB CENTER OF GRAVITY (Y) ACCELERATION VS TIME(#1)

Customer: NHTSA

过滤: CPC_60

Min. Value: -0.55 g at 21.12 ms
Max. Value: 2.01 g at 69.44 ms

Test Number: 051017

TRC Inc. Test Lab: CTF
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

MDB CENTER OF GRAVITY (X) VELOCITY VS TIME (#1)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

Velocity vs Time Graph

- Velocity (m/s)
- Time (ms)

Filter: CPC_180

Min. Value: 3.90 m/s at 310.00 ms
Max. Value: 6.73 m/s at 10.72 ms
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

MDB CENTER OF GRAVITY (Z) VELOCITY VS TIME(#1)

Customer: NHTSA

MOVEHCCG0000VEZC

TRC Inc. Test Lab: CTF
Test Number: 051017

Filter: CPC_180

Min. Value
-0.06 m/s at 32.16 ms

Max. Value
0.77 m/s at 250.72 ms

Time [ms]
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

MDB Center of Gravity Resultant Acceleration vs Time (#1)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

MOVEHCCG0000ACRD

Filter: CFC_60
Min. Value
0.12 g at 164.88 ms
Max. Value
23.11 g at 38.24 ms

Time [ms]
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

MDB REAR (X) ACCELERATION VS TIME (#2)

Customer: NHTSA

TRC Inc. Test Lab: CTh
Test Number: 051017

Filter: CFC_60

Min Value
-23.22 g at 39.52 ms

Max Value
2.51 g at 127.04 ms
24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

 MDB REAR (X) VELOCITY VS TIME (#2)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

M7FRAM000000VEXC

Velocity [m/s]
-50 0 50 100 150 200 250 300 350 Time [ms]
4 6 8 10 12 14

Filter: CFC_180
Min. Value: 4.13 m/s at 65.36 ms
Max. Value: 13.16 m/s at 2.08 ms
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

MDB REAR (Y) ACCELERATION VS TIME (#2)

Customer: NHTSA

TRC Inc. Test Lab: CTF
Test Number: 051017

M7FRAM000000ACYD

Filter: CRC_60

Min. Value
-5.14 g at 290.00 ms

Max. Value
2.61 g at 21.12 ms
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

MDB RIGHT CONTACT SWITCH

Customers: NHTSA

M3CONT000000VO00

TRC Inc. Test Lab: CTF
Test Number: 051017

0.75

0.5

0.25

0.25

0

-50 -20 0 20 50 100 150 200 250 300 Time [ms]

Filter: Unfiltered

Min. Value
0.00 Logic at 3.36 ms

Max. Value
1.00 Logic at -20.00 ms
Driver Dummy Instrumentation Plots
  Acceleration Data - FIR Filtered
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse

DRIVER UPPER RIB (Y) ACCELERATION VS TIME

Customer: NHTSA

11RIBSLU00SIACY1

Filter: FIR_100

Min. Value
-4.63 g at 206.24 ms

Max. Value
36.73 g at 36.24 ms

Time [ms]

TRC Inc. Test Lab: CTF
Test Number: 051017
11SPIN1200SIACY1

Min. Value
-3.75 g at 95.04 ms
Max. Value
36.59 g at 41.84 ms
Driver Dummy Instrumentation Plots

Acceleration Data - FIR Filtered - Redundant
3/24 kph 90 Degree Side Impact (MDB) into Left Side of 2006 Mitsubishi Eclipse
DRIVER LOWER SPINE (Y) ACCELERATION VS TIME REDUNDANT

Customer: NHTSA

11SPIN12RDSIAICY1

TRC Inc. Test Lab: CTF
Test Number: 051017

Acceleration [g]

Filter: FIR_100

Min. Value
-3.91 g at 95.04 ms

Max. Value
36.35 g at 41.84 ms

Time [ms]
Appendix C

SID Configuration and Performance Verification Data
**Summary**

SID Pre-Test and Post-Test Calibration

Configured For Left Side Impact

Date: 10/11/05-10/26/05  
TRC Inc. Test Number: S/N027

Laboratory Technician: V. Olivieri, V. Watters

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>SID 027</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Pre-Test</td>
</tr>
<tr>
<td>SH - Seated Height (mm)</td>
<td>889-909</td>
<td>895</td>
</tr>
<tr>
<td>RH - Rib Height (mm)</td>
<td>502-520</td>
<td>510</td>
</tr>
<tr>
<td>HP - Hip Pivot Height (mm)</td>
<td>99 ref</td>
<td>99.1</td>
</tr>
<tr>
<td>KH - Knee Pivot from Back Line (mm)</td>
<td>511-526</td>
<td>522</td>
</tr>
<tr>
<td>KV - Knee Pivot to Floor (mm)</td>
<td>490-505</td>
<td>497</td>
</tr>
<tr>
<td>HW - Hip Width (mm)</td>
<td>356-391</td>
<td>367</td>
</tr>
</tbody>
</table>

**Thorax Impacts**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>SID 027</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (°C)</td>
<td>18.9-25.5</td>
</tr>
<tr>
<td>Relative Humidity (%)</td>
<td>10-70</td>
</tr>
<tr>
<td>Probe Speed (m/s)</td>
<td>4.27-4.33</td>
</tr>
<tr>
<td>Upper Rib (g’s)</td>
<td>37.46</td>
</tr>
<tr>
<td>Lower Rib (g’s)</td>
<td>37.46</td>
</tr>
<tr>
<td>Lower Spine (g’s)</td>
<td>15-22</td>
</tr>
</tbody>
</table>

**Pelvis Impacts**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>SID 027</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (°C)</td>
<td>18.9-25.5</td>
</tr>
<tr>
<td>Relative Humidity (%)</td>
<td>10-70</td>
</tr>
<tr>
<td>Probe Speed (m/s)</td>
<td>4.27-4.33</td>
</tr>
<tr>
<td>Pelvis (g’s)</td>
<td>40-60</td>
</tr>
</tbody>
</table>


Calibration Test Results

Pre-Test

SID: 027

Configured for Left Side Impact

External Dimensions: The dummy passed all external dimension requirements.
Lateral Thorax Impact Test: The lateral thorax passed all impact test requirements.
Lumbar Flexion Test: The dummy met the lumbar flexion test requirements.
Abdominal Compression Test: The abdomen met the compression test requirements.
Pelvis Impact Test: The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test: The thoracic shock absorber passed all test requirements.
<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Dimension</th>
<th>Specification</th>
<th>Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seated Height</td>
<td>SH</td>
<td>889.0 - 909.3 mm</td>
<td>895 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Rib Height</td>
<td>RH</td>
<td>501.7 - 520.7 mm</td>
<td>510 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Hip Pivot Height</td>
<td>HP</td>
<td>99.1 REF mm</td>
<td>99.1 mm</td>
<td></td>
</tr>
<tr>
<td>Knee Pivot From Backline</td>
<td>KH</td>
<td>510.5 - 525.8 mm</td>
<td>522 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Knee Pivot From Floor</td>
<td>KV</td>
<td>490.2 - 505.5 mm</td>
<td>497 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Hip Width</td>
<td>HW</td>
<td>355.6 - 391.2 mm</td>
<td>367 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Top Rib Width From CL</td>
<td>RW-1</td>
<td>165.1 - 180.3 mm</td>
<td>177 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Bottom Rib Width from CL</td>
<td>RW-2</td>
<td>165.1 - 180.3 mm</td>
<td>177 mm</td>
<td>Yes</td>
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<tr>
<td>Difference Between Top &amp; Bottom Rib Width from CL</td>
<td>&lt;= 2.5 mm</td>
<td>0.0 mm</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
Transportation Research Center Inc.

572F Left Thorax Test
SID  Serial No. 027    Calibration No. 01 - 02
Test Date 10/13/2005

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 - 25.5 C</td>
<td>21.4 C</td>
<td>Yes</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 - 70 %</td>
<td>54 %</td>
<td>Yes</td>
</tr>
<tr>
<td>Pendulum Velocity</td>
<td>4.27 - 4.33 m/sec</td>
<td>4.32 m/sec</td>
<td>Yes</td>
</tr>
<tr>
<td>Upper Rib Bar Peak Acceleration</td>
<td>37 - 46 g</td>
<td>38.2 g</td>
<td>Yes</td>
</tr>
<tr>
<td>Lower Rib Bar Peak Acceleration</td>
<td>37 - 46 g</td>
<td>37.6 g</td>
<td>Yes</td>
</tr>
<tr>
<td>Lower Thoracic Spine (T12) Peak</td>
<td>15 - 22 g</td>
<td>18.2 g</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Test meets specifications.

Comments:

Technician

[Signature]

Approved

[Signature]
Upper Rib Bar Acceleration

Filter Class: FIR 100
Max: 38.2 g at 19.3 ms
Min: -17.3 g at 26.2 ms

Lower Rib Bar Acceleration

Filter Class: FIR 100
Max: 37.6 g at 18.6 ms
Min: -15.5 g at 26.2 ms

Lower Thoracic Spines (T12) Acceleration

Filter Class: FIR 100
Max: 18.2 g at 23.6 ms
Min: -6.1 g at 41.1 ms
Transportation Research Center Inc.

572F Damper Test

SID Serial No. 027 Calibration No. 01 - A2
Test Date 10/11/2005

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 - 25.5 C</td>
<td>21.4 C</td>
<td>Yes</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 - 70 %</td>
<td>56 %</td>
<td>Yes</td>
</tr>
<tr>
<td>Pendulum Velocity</td>
<td></td>
<td>3.05 m/sec</td>
<td></td>
</tr>
<tr>
<td>Maximum Force at Test Velocity</td>
<td>843 - 1130 N</td>
<td>950 N</td>
<td>Yes</td>
</tr>
<tr>
<td>Maximum Displacement at Test Velocity</td>
<td>30.2 - 35.1 mm</td>
<td>31.6 mm</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Test meets specifications.

Comments:

Damper Setting: 6.0

Technician: [Signature]  
Approved: [Signature]

10.11.2005 15:05:42  2174 TPL
Transportation Research Center Inc.
572F Damper Test
SID Serial No. 027 Calibration No. 01 - A2
Test Date 10/11/2005

Shock Absorber Resistive Force

Filter Class: 1000
Max: 950 N at 4.6 ms
Min: -1880 N at 95.1 ms

Shock Absorber Displacement

Filter Class: 1000
Max: 31.6 mm at 31.9 ms
Min: -0.5 mm at 95.6 ms
<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 - 25.5 °C</td>
<td>21.2 °C</td>
<td>Yes</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 - 70 %</td>
<td>54 %</td>
<td>Yes</td>
</tr>
<tr>
<td>Pendulum Velocity</td>
<td>4.27 m/sec</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Force at Test Velocity</td>
<td>1736 - 2099 N</td>
<td>1807 N</td>
<td>Yes</td>
</tr>
<tr>
<td>Maximum Displacement at Test Velocity</td>
<td>31.7 - 37.2 mm</td>
<td>35.3 mm</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Test meets specifications.

Comments:

Damper Setting: 6.0

Technician: [Signature]
Approved: [Signature]
Transportation Research Center Inc.
572F Damper Test
SID Serial No. 027 Calibration No. 01 - B1
Test Date 10/11/2005

Shock Absorber Resistive Force

Filter Class: 1000
Max: 1807 N at 3.6 ms
Min: -1701 N at 93.9 ms

Shock Absorber Displacement

Filter Class: 1000
Max: 35.3 mm at 29.7 ms
Min: -0.2 mm at 94.2 ms
<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 - 25.5 °C</td>
<td>21.3 °C</td>
<td>Yes</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 - 70 %</td>
<td>56 %</td>
<td>Yes</td>
</tr>
<tr>
<td>Pendulum Velocity</td>
<td></td>
<td>6.05 m/sec</td>
<td></td>
</tr>
<tr>
<td>Maximum Force at Test Velocity</td>
<td>3681 - 4365 N</td>
<td>3791 N</td>
<td>Yes</td>
</tr>
<tr>
<td>Maximum Displacement at Test Velocity</td>
<td>33.3 - 39.5 mm</td>
<td>38.1 mm</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Test meets specifications.

Comments:

Damper Setting: 6.0

Technician: [Signature]

Approved: [Signature]

10.11.2005 15:32:13  1695  TRC
Transportation Research Center Inc.
572F Damper Test
SID Serial No. 027 Calibration No. 01 - C2
Test Date 10/11/2005

Shock Absorber Resistive Force

Filter Class: 1000
Max: 3791 N at 2.0 ms
Min: -1789 N at 85.5 ms

Shock Absorber Displacement

Filter Class: 1000
Max: 38.1 mm at 24.2 ms
Min: -0.3 mm at 85.8 ms
### Lumbar Flexion Test

**SID Part 572B**

**CAL Date:** 12-Oct-05

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 – 25.6°C</td>
<td>21.2°C</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 – 70 %</td>
<td>58 %</td>
</tr>
<tr>
<td>Force at 0 Deg. Flexion</td>
<td>-27 – 27 N</td>
<td>0 N</td>
</tr>
<tr>
<td>Force at 20 Deg of Flexion</td>
<td>98 – 151 N</td>
<td>120.1 N</td>
</tr>
<tr>
<td>Force at 30 Deg of Flexion</td>
<td>151 – 205 N</td>
<td>177.9 N</td>
</tr>
<tr>
<td>Force at 40 Deg of Flexion</td>
<td>205 – 258 N</td>
<td>253.5 N</td>
</tr>
<tr>
<td>Net Return Angle After 3 Minutes</td>
<td>&lt; 12°</td>
<td>3.8°</td>
</tr>
</tbody>
</table>

Test meets specifications

Technician: [Signature]

C-13 051017
## Test Parameter

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 - 25.5 °C</td>
<td>21.2 °C</td>
<td>Yes</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 - 70 %</td>
<td>55 %</td>
<td>Yes</td>
</tr>
<tr>
<td>Displacement Rate</td>
<td>6.35 - 8.89 mm/s</td>
<td>7.6 - 8.0 mm/s</td>
<td>Yes</td>
</tr>
<tr>
<td>Data Within Required Corridor</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Test meets specifications.

Comments:

---

Technician: [Signature]

Approved: [Signature]
Transportation Research Center Inc.
572F Left Pelvis Test
SID Serial No. 027  Calibration No. 01 - 01
Test Date 10/13/2005

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 - 25.5 C</td>
<td>21.0 C</td>
<td>Yes</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 - 70 %</td>
<td>52 %</td>
<td>Yes</td>
</tr>
<tr>
<td>Pendulum Velocity</td>
<td>4.27 - 4.33 m/sec</td>
<td>4.31 m/sec</td>
<td>Yes</td>
</tr>
<tr>
<td>Pelvis Peak Acceleration</td>
<td>40 - 60 g</td>
<td>46.1 g</td>
<td>Yes</td>
</tr>
<tr>
<td>Time Above 20 g</td>
<td>3 - 7 ms</td>
<td>6.00 ms</td>
<td>Yes</td>
</tr>
<tr>
<td>Unimodal requirement for pelvis acceleration</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Comments:

Technician

Approved

10.13.2005 12:37:06  615

C-16

051017
Transportation Research Center Inc.
572F Left Pelvis Test
SID Serial No. 027 Calibration No. 01-01
Test Date 10/13/2005

Pelvis Acceleration

Filter Class: FIR 100
Max: 46.1 g at 9.0 ms
Min: -12.1 g at 20.2 ms
Calibration Test Results

Post-Test

SID: 027

Configured for Left Side Impact

External Dimensions: The dummy passed all external dimension requirements.
Lateral Thorax Impact Test: The lateral thorax passed all impact test requirements.
Lumbar Flexion Test: The dummy met the lumbar flexion test requirements.
Abdominal Compression Test: The abdomen met the compression test requirements.
Pelvis Impact Test: The lateral pelvis passed all impact test requirements.
Thoracic Shock Absorber Test: The thoracic shock absorber was not tested at this time.
<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Dimension</th>
<th>Specification</th>
<th>Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seated Height</td>
<td>SH</td>
<td>889.0 - 909.3 mm</td>
<td>895 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Rib Height</td>
<td>RH</td>
<td>501.7 - 520.7 mm</td>
<td>511 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Hip Pivot Height</td>
<td>HP</td>
<td>99.1 RRF mm</td>
<td>99.1 mm</td>
<td></td>
</tr>
<tr>
<td>Knee Pivot From Backline</td>
<td>KH</td>
<td>510.5 - 525.8 mm</td>
<td>523 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Knee Pivot From Floor</td>
<td>KV</td>
<td>490.2 - 505.5 mm</td>
<td>495 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Hip Width</td>
<td>HW</td>
<td>355.6 - 391.2 mm</td>
<td>369 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Top Rib Width From CL</td>
<td>RW-1</td>
<td>165.1 - 180.3 mm</td>
<td>177 mm</td>
<td>Yes</td>
</tr>
<tr>
<td>Bottom Rib Width From CL</td>
<td>RW-2</td>
<td>165.1 - 180.3 mm</td>
<td>176 mm</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Difference Between Top & Bottom Rib Width from CL: $\leq 2.5$ mm, $1.0$ mm, Yes

Technician: [Signature]

Approved: [Signature]
**Transportation Research Center Inc.**

**572P Left Thorax Test**

**Serial No. 027  Calibration No. 02 - 2**

**Test Date 10/26/2005**

<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 - 25.5 °C</td>
<td>21.3 °C</td>
<td>Yes</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 - 70 %</td>
<td>29 %</td>
<td>Yes</td>
</tr>
<tr>
<td>Pendulum Velocity</td>
<td>4.27 - 4.33 m/sec</td>
<td>4.32 m/sec</td>
<td>Yes</td>
</tr>
<tr>
<td>Upper Rib Bar Peak Acceleration</td>
<td>37 - 46 g</td>
<td>40.1 g</td>
<td>Yes</td>
</tr>
<tr>
<td>Lower Rib Bar Peak Acceleration</td>
<td>37 - 46 g</td>
<td>37.7 g</td>
<td>Yes</td>
</tr>
<tr>
<td>Lower Thoracic Spine (T12) Peak</td>
<td>15 - 22 g</td>
<td>17.4 g</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Test meets specifications.

**Comments:**

---

**Technician**

[Signature]

**Approved**

[Signature]
Transportation Research Center Inc.
572F Left Thorax Test
SID  Serial No. 027  Calibration No. 02 - 2
Test Date 10/26/2005

Upper Rib Bar Acceleration

Filter Class: FIR 100
Max: 40.1 g at 19.7 ms
Min: -14.3 g at 25.9 ms

Lower Rib Bar Acceleration

Filter Class: FIR 100
Max: 37.7 g at 19.7 ms
Min: -13.9 g at 25.9 ms

Lower Thoracic Spine (T12) Acceleration

Filter Class: FIR 100
Max: 17.4 g at 24.6 ms
Min: -4.4 g at 40.2 ms
TRANSPORTATION RESEARCH CENTER INC.

LUMBAR FLEXION TEST

SID PART 572B

CAL DATE: 25-Oct-05

TRC, INC. TEST NO: 027C02TF1 572B SN 027 TORSO FLEX CAL 02

<table>
<thead>
<tr>
<th>TEST PARAMETER</th>
<th>SPECIFICATION</th>
<th>TEST RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMPERATURE</td>
<td>18.9 – 25.6°C</td>
<td>21.4 °C</td>
</tr>
<tr>
<td>RELATIVE HUMIDITY</td>
<td>10 – 70 %</td>
<td>36 %</td>
</tr>
<tr>
<td>FORCE AT 0 DEG. FLEXION</td>
<td>-27 – 27 N</td>
<td>0 N</td>
</tr>
<tr>
<td>FORCE AT 20 DEG OF FLEXION</td>
<td>98 – 151 N</td>
<td>137.9 N</td>
</tr>
<tr>
<td>FORCE AT 30 DEG OF FLEXION</td>
<td>151 – 205 N</td>
<td>195.7 N</td>
</tr>
<tr>
<td>FORCE AT 40 DEG OF FLEXION</td>
<td>205 – 258 N</td>
<td>253.6 N</td>
</tr>
<tr>
<td>NET RETURN ANGLE AFTER 3 MIN</td>
<td>&lt; 12 °</td>
<td>4.2 °</td>
</tr>
</tbody>
</table>

TEST MEETS SPECIFICATIONS

TECHNICIAN: [Signature]

C-22 051017
<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 - 25.5 °C</td>
<td>21.4 °C</td>
<td>Yes</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 - 70 %</td>
<td>36 %</td>
<td>Yes</td>
</tr>
<tr>
<td>Displacement Rate</td>
<td>6.35 - 8.89 mm/s</td>
<td>7.5 - 8.0 mm/s</td>
<td>Yes</td>
</tr>
<tr>
<td>Data Within Required Corridor</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Test meets specifications.

Comments:

Technician

Approved


C-23 051017
Transportation Research Center Inc.

572B Abdomen Test
SID Serial No. 027 Calibration No. 02 - 2
Test Date 10/25/2005

Force [N]

Displacement [mm]

Force vs. Displacement

Force [N] vs. Displacement [mm]
<table>
<thead>
<tr>
<th>Test Parameter</th>
<th>Specification</th>
<th>Test Results</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>18.9 - 25.5 °C</td>
<td>21.4 °C</td>
<td>Yes</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>10 - 70 %</td>
<td>28 %</td>
<td>Yes</td>
</tr>
<tr>
<td>Pendulum Velocity</td>
<td>4.27 - 4.33 m/sec</td>
<td>4.31 m/sec</td>
<td>Yes</td>
</tr>
<tr>
<td>Pelvis Peak Acceleration</td>
<td>40 - 60 g</td>
<td>44.4 g</td>
<td>Yes</td>
</tr>
<tr>
<td>Time Above 20 g</td>
<td>3 - 7 ms</td>
<td>5.92 ms</td>
<td>Yes</td>
</tr>
<tr>
<td>Unimodal requirement for pelvis acceleration</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Comments:

Technician

Approved
Transportation Research Center Inc.
572F Left Pelvis Test
SID Serial No. 027 Calibration No. 02 - 1
Test Date 10/26/2005

Pelvis Acceleration

Filter Class: FIR 100
Max: 44.4 g at 9.4 ms
Min: -9.8 g at 20.6 ms
<table>
<thead>
<tr>
<th>ITEM</th>
<th>PRE-USE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HEAD:</strong></td>
<td></td>
</tr>
<tr>
<td>Skull Cap Bolts</td>
<td>X</td>
</tr>
<tr>
<td>Head Skin Condition</td>
<td>X</td>
</tr>
<tr>
<td>Accele. Cable Exit (left or right)</td>
<td>(Left) N/A (Right)</td>
</tr>
<tr>
<td><strong>NECK:</strong></td>
<td></td>
</tr>
<tr>
<td>Rubber Condition and Separation From End Caps</td>
<td>X</td>
</tr>
<tr>
<td>Stack Shoulder Foam and Bolts</td>
<td>X</td>
</tr>
<tr>
<td>Rib Wrap Condition</td>
<td>X</td>
</tr>
<tr>
<td>* Rib Cage Spring and Support Assembly</td>
<td>X</td>
</tr>
<tr>
<td>* Rib Cage Bolts</td>
<td>X</td>
</tr>
<tr>
<td>* Damper Rear Attachment Ring, Pivot Pins, and Bracket</td>
<td>X</td>
</tr>
<tr>
<td>* Location and Adjustment of Chest Pot Bracket and Collars</td>
<td>N/A</td>
</tr>
<tr>
<td>* Chest Pot Rod End Nuts and Eyebolt</td>
<td>N/A</td>
</tr>
<tr>
<td>Arm Foam Orientation</td>
<td>X</td>
</tr>
<tr>
<td>Thorax/Lumbar Spine Bolts</td>
<td>X</td>
</tr>
<tr>
<td>Adjust rib cage position to full extension</td>
<td>X</td>
</tr>
<tr>
<td><strong>PELVIS:</strong></td>
<td></td>
</tr>
<tr>
<td>Tightness and Alignment of H-Point Tool Insert</td>
<td>X</td>
</tr>
<tr>
<td>* Hips Range of Motion and 1-2g Adjustment (before calibration only)</td>
<td>X</td>
</tr>
<tr>
<td>Upper Femur Bolt Adjustment and Position</td>
<td>X</td>
</tr>
<tr>
<td>Check Spine Kits (Yellow tape = Kits/No tape = No kits)</td>
<td>(With) X (Without)</td>
</tr>
<tr>
<td><strong>LEGS AND FEET:</strong></td>
<td></td>
</tr>
<tr>
<td>Femur Load Cell Bolts</td>
<td>(30 ft/lbs) X</td>
</tr>
<tr>
<td>Breakaway Femur Bolts</td>
<td>X</td>
</tr>
<tr>
<td>Knee Joint Function and Range of Motion</td>
<td>X</td>
</tr>
<tr>
<td>Leg Skin Condition and Position</td>
<td>X</td>
</tr>
<tr>
<td>Ankle Range of Motion</td>
<td>X</td>
</tr>
<tr>
<td>Foot Condition</td>
<td>X</td>
</tr>
<tr>
<td><strong>OTHER:</strong></td>
<td></td>
</tr>
<tr>
<td>Cleanliness</td>
<td>X</td>
</tr>
<tr>
<td>Target Position</td>
<td>X</td>
</tr>
<tr>
<td>Clothes</td>
<td>X</td>
</tr>
<tr>
<td>Shoes</td>
<td>X</td>
</tr>
<tr>
<td>Knee &amp; Ankle One G Joint Adjustments</td>
<td>X</td>
</tr>
</tbody>
</table>

Inspection Completed By: J. Clarridge  Date: 10/14/05

C-27  051017
## Item

<table>
<thead>
<tr>
<th>Item</th>
<th>Post-Use</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Head:</strong></td>
<td></td>
</tr>
<tr>
<td>Head Skin Condition</td>
<td>X</td>
</tr>
<tr>
<td><strong>Neck:</strong></td>
<td></td>
</tr>
<tr>
<td>Rubber Condition and Separation From End Caps</td>
<td>X</td>
</tr>
<tr>
<td><strong>Thorax:</strong> Left side configuration</td>
<td></td>
</tr>
<tr>
<td>Jacket Condition</td>
<td>X</td>
</tr>
<tr>
<td>Arm Foam Condition</td>
<td>X</td>
</tr>
<tr>
<td>Damper and Chest Pot Movement and Condition</td>
<td>X</td>
</tr>
<tr>
<td>Rib Cage Spring and Support Assembly Condition</td>
<td>X</td>
</tr>
<tr>
<td>Rib Wrap Condition</td>
<td>X</td>
</tr>
<tr>
<td>Abdomen Condition</td>
<td>X</td>
</tr>
<tr>
<td>Thorax/Lumbar Spine Bolts</td>
<td>X</td>
</tr>
<tr>
<td>Lumbar Spine Condition and Separation From End Caps</td>
<td>X</td>
</tr>
<tr>
<td><strong>Pelvis:</strong></td>
<td></td>
</tr>
<tr>
<td>Iliac Crest Bone</td>
<td>X</td>
</tr>
<tr>
<td>Flesh Condition</td>
<td>X</td>
</tr>
<tr>
<td>Hip Range of Motion</td>
<td>X</td>
</tr>
<tr>
<td><strong>Legs and Feet:</strong></td>
<td></td>
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<tr>
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### Notes:
No damage to report.

---

Inspection Completed By: J. Clarridge  
Date: 10/24/05
Appendix D

Test Equipment List and Calibration Information
**Sien Convention**  
**SAE J211 Mar95**

**Accelerometers:**  
+X: Forward  
+Y: Rightward  
+Z: Downward

**Potentiometers:**  
+Chest longitudinal deflection: Outward  
+Chest lateral deflection: Rightward  
+Seat belt displacement: Outward  
+Seat belt extension: Elongation  
+Knee slider displacement: Distance between femur and tibia increased (in relation to a seated dummy)

**Rotation potentiometers:**  
+About the X-axis: Left foot-eversion  
Right foot-inversion  
+About the Y-axis: Left/right foot-dorsiflexion  
+About the Z-axis: Left foot-internal  
Right foot-external

**Load cells:**  
+Femur force: Tension  
+Seat belt force: Tension  
+Barrier force: Tension

**Neck load cells:**  
+X force: Head pushed rearward  
+Y force: Head pushed leftward  
+Z force: Head pulled upward (tension on neck)  
+X moment: Left ear rotating toward left shoulder  
+Y moment: Chin rotating toward chest  
+Z moment: Chin rotating toward left shoulder

**Tibia load cells:**  
+X force: Ankle forward, knee rearward  
+Y force: Ankle rightward, knee leftward  
+Z force: Tension  
+X moment: Bottom of tibia moving leftward  
+Y moment: Bottom of tibia moving rearward
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<th>+Y force</th>
<th>+Z force</th>
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<th>+Z moment</th>
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48/24 KPH 90 Degree Side Impact (NDB) Into Left Side of 2006 Mitsubishi Eclipse

Temperature (°C)

Humidity (%)

Time of Sample

05/17
### Consumer Information

- **Mitsubishi Motors**
- **Best Backed Cars in the World**
- **10-year/100,000 mile Powertrain Limited Warranty**
- **5-year/60,000 mile New Vehicle Limited Warranty**
- **5-year/Unlimited miles Roadside Assistance Plan**

### Standard Equipment & Installed Options

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### Manufacturer Suggested Retail Price (MSRP)

- $19,399.00

### Total

- $20,194.00

### Parts Content Information

- **For vehicles in this category:**
  - U.S./Canadian Parts Content: 47%
  - Major Assembly Origin: 40%
  - Final Assembly Point: NORMAL, IL, USA
  - Major Assembly Orig.: CANADA 25%
  - Engine: JAPAN
  - Transmission: JAPAN

Note: Parts content does not include final assembly, distribution, or other manufacturer costs.

### Fuel Economy Information

- **City MPG:** 23
- **Highway MPG:** 30

Estimated Annual Fuel Cost: $1,090

### Specifications

- Engine: 2.4L 4-cyl
- Transmission: CVT
- Drive: FWD
- Doors: 4
- Seating: 5
- Dimensions:
  - Length: 180.8 in
  - Width: 70.9 in
  - Height: 65.7 in
  - Wheelbase: 103.8 in

### Model/Year

- **Model:** 2020
- **Year:** 2020
- **Body Style:** Sedan
- **Color:** [Specify color]
- **Trim Level:** [Specify trim level]
- **Fuel Economy:** [Specify fuel economy]
- **VIN:** 4M1JACX4FEC460476

### Additional Information

- [Customer Service Contact Information]
- [Warranty Information]
- [Safety Ratings]
- [Other Relevant Details]
SIDE IMPACTOR BARRIER CERTIFICATION

Date: November 29, 2004

To: Honda R & D America
21001 State Route 739
Raymond, OH 43067-9705

PURCHASE ORDER INFORMATION

Customer P.O. Number: \( \text{HOA-434486} \)
Work Order Number: \( \text{114310} \)
Plascore Part Number: \( \text{18723} \)
Quantity: \( \text{01 piece} \)

CORE INFORMATION

Core Type: \( \text{PCGA-5.2-1/4-P-3003-T} \)
Cell Size: \( \text{0.250 inch} \)
Density: \( \text{5.2 pcf} \)
Unit Number: \( \text{219A1004} \)

This is to certify that the aluminum honeycomb core supplied, under the unit number provided, meets the crush requirements of 232 - 250 psi per DWG# DSL-1285.

[Signature]
Quality Control Representative
Karl D. Zwaanstra
Crack Data
232 - 250 psi per DWG # DSL-1285

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</table>
SIDE IMPACTOR BARRIER CERTIFICATION

Date: November 29, 2004
To: Honda R & D America
21001 State Route 739
Raymond, OH 43067-9705

PURCHASE ORDER INFORMATION

Customer P.O. Number: HOA-424486
Work Order Number: 114310
Plascore Part Number: 18723
Quantity: 01 piece

CORE INFORMATION

Core Type: PAMG-3/8-1.6-001-P-5052
Cell Size: 0.375 inch
Density: 1.6 pcf
Unit Number: 239B1004

This is to certify that the aluminum honeycomb core supplied, under the unit number provided, meets the crush requirements of 45 psi +/- 2.5 psi per DWG# DSL-1285.

[Signature]
Quality Control Representative
Karl D. Zwaanstra
Crush Data
45 psi +/- 2.5 psi per DWG # DSL-1285

Block Number: 239B1004

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