REPORT NUMBER 301L-GTL-03-005

SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 301L
FUEL SYSTEM INTEGRITY

MITSUBISHI MOTORS CORPORATION
2003 MITSUBISHI OUTLANDER, MPV
NHTSA NO. C35600

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

JUNE 26, 2003
FINAL REPORT
PREPARED FOR
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
OFFICE OF VEHICLE SAFETY COMPLIANCE
400 SEVENTH STREET, SW
ROOM 6111 (NVS-220)
WASHINGTON, D.C. 20590
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Prepared By: [Signature]
Approved By: [Signature]
Approval Date: [Date]

FINAL REPORT ACCEPTANCE BY OVSC:

Accepted By: [Signature]
Acceptance Date: [Date]
Compliance tests were conducted on the subject, 2003 Mitsubishi Outlander MPV in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-301-02 for the determination of FMVSS 301 compliance.

Test failures identified were as follows:

NONE
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SECTION 1
PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF COMPLIANCE TEST

A 2003 Mitsubishi Outlander MPV was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 301 testing to determine if the vehicle was in compliance with the requirements of the standard. The purpose of this standard is to reduce deaths and injuries occurring from fires that result from fuel spillage during and after motor vehicle crashes, and resulting from ingestion of fuels during siphoning.

1.1 The test vehicle was a 2003 Mitsubishi Outlander MPV. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: JA4LZ41G93U030448
B. NHTSA No.: C35600
C. Manufacturer: MITSUBISHI MOTORS CORPORATION
D. Manufacture Date: 09/02

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 301 testing on June 03, 2003.
SECTION 2

COMPLIANCE TEST RESULTS SUMMARY

2.0 TEST RESULTS

All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedure, TP-301-02 dated 8 November 1994 and General Testing Laboratories, Inc. (GTL) Test Procedure, TP-301-02. "Fuel System Integrity".

Based on the test performed, the 2003 Mitsubishi Outlander MPV appears to meet the lateral impact requirements of FMVSS 301 testing.
SECTION 3

COMPLIANCE TEST DATA

3.0 TEST RESULTS

The following data sheets document the results of testing on the 2003 Mitsubishi Outlander.
SUMMARY OF RESULTS

Vehicle’s NHTSA No.: C35600  Test Model: OUTLANDER

Test Date: 06/03/03  Time: 11:46  Temperature 72 °F

Vehicle Model Year, Make, Model and Body Style:
2003 MITSUBISHI OUTLANDER MPV

Vehicle Test Weight: 3936 lbs.;  Impact Velocity: 19.5 mph

Type of Front Occupant Restraint System Installed in Test Vehicle:

Driver’s DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN STEERING WHEEL AND SRS AIR BAG IN OUTBOARD SIDE OF SEAT BACK.

Right Passenger’s DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN DASH AND SRS AIR BAG IN OUTBOARD SIDE OF SEAT BACK

Stoddard solvent spillage from Vehicle’s Fuel System: None

REMARKS: THE DRIVER SIDE SRS AIR BAG IN SEAT BACK DEPLOYED

RECORDED BY:  DATE: 06/03/03
APPROVED BY:  
DATA SHEET 1
TEST VEHICLE SPECIFICATIONS

TEST VEHICLE INFORMATION:

NHTSA No.: C35600
Year/Make/Model/Body Style: 2003 MITSUBISHI OUTLANDER MPV
Engine Data: 2.4 LITER INLINE
Transmission Data: 4 SPEED AUTOMATIC
Final Drive Data: AWD
Major Options: ABS, SUNROOF, LUXURY PACKAGE
Date Received: 02/24/03 Odometer Reading: 531 miles

DATA FROM VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured By: MITSUBISHI MOTORS CORPORATION
Date of Manufacture: 09/02
VIN: JA4LZ41G93U030448
GVWR: 1980 kg (4365 lbs); CAWR: Front 1050 kg (2315 lbs) Rear 1065 kg (2348 lbs)

DATA FROM VEHICLE'S TIRE PLACARD:

Location of Placard on Vehicle: DRIVER'S "B" PILLAR
Tire Pressure With Maximum Capacity Vehicle Load —
Front: _29_ psi; Rear: _29_ psi
Recommended Tire Size: _P225/60R16_
Recommended Cold Tire Pressure: Front = 200 kPa (29 psi) Rear = 200 kPa (29 psi)
Size of Tires on Test Vehicle: _P225/60R16_
Type of Spare Tire: _TEMPORARY_

Vehicle Capacity Data —

Type of Front Seat(s): BUCKET
Number of Occupants: Front = _2_; Mid = _2_ Rear = _3_ Total = _5_

A. VEHICLE CAPACITY WEIGHT (VCW) = 827 lbs.
B. Number of Occupants x 150 lbs. = 750 lbs.
RATED CARGO AND LUGGAGE WEIGHT (RCLW) = A - B = 77 lbs.

RECORDED BY: ___________________________ DATE: __08/03/03__
APPROVED BY: ___________________________
WEIGHT OF TEST VEHICLE:

A. As Received At Laboratory (Maximum Fluids) —

Right Front = 459.0 kg (1012 lbs.)         Right Rear = 339.7 kg (749 lbs.)
Left Front = 463.5 kg (1022 lbs.)          Left Rear = 344.2 kg (759 lbs.)

TOTAL FRONT = 922.6 kg (2034 lbs.)       TOTAL REAR = 684.0 kg (1508 lbs.)

% of TOTAL = ___57___ %          % of TOTAL = ___43___ %

TOTAL DELIVERED WEIGHT = _____1606.6___ kg (3542 lbs.)

B. Calculation of Target Test Weight —

1. Total Delivered Weight = _____1606.6___ kg (3542 lbs.)

2. Rated Cargo & Lugg. Weight (RCLW) = _____34.9___ kg (77 lbs.)

3. Weight of 2 Dummies (164 lbs. each) = _____148.8___ kg (328 lbs.)

TARGET TEST WEIGHT = 1 + 2 + 3 = _____1790.3___ kg (3947 lbs.)

C. Vehicle, Dummies and _____47.62___ kg (105 lbs.) of Cargo Weight —

Right Front = 503.0 kg (1109 lbs)         Right Rear = 389.6 kg (859 lbs)
Left Front = 487.6 kg (1075 lbs)           Left Rear = 405.0 kg (893 lbs)

TOTAL FRONT = 990.6 kg (2184 lbs)        TOTAL REAR = 794.6 kg (1752 lbs)

% of TOTAL = ___56___ %                  % of TOTAL = ___44___ %

TOTAL TEST WEIGHT = _____1785.3___ kg (3936 lbs)

Weight of Ballast secured in cargo area = _____47.62___ kg (105 lbs)
Type of Ballast: SALT BAGS
Method of Securing Ballast: REAR SEAT BELTS
Vehicle Components Removed for Weight Reduction: NONE
DATA SHEET 2
PRE-TEST DATA CONTINUED

TEST VEHICLE ATTITUDE:

As Delivered —
Right Front: 805 mm (31.7 inches)
Left Front: 805 mm (31.7 inches)
Right Rear: 810 mm (31.9 inches)
Left Rear: 800 mm (31.5 inches)

As Tested —
Right Front: 792 mm (31.1 inches)
Left Front: 791 mm (31.1 inches)
Right Rear: 782 mm (30.8 inches)
Left Rear: 774 mm (30.5 inches)

Vehicle's Wheelbase = 2625 mm (103.3 inches)

FUEL SYSTEM DATA:

Fuel System Capacity Listed in Owner's Manual = 59.5 liters (15.7 gallons)
Usable Capacity Figure Furnished By COTR = 59.5 liters (15.7 gallons)

Test Volume Range (91 to 94% of Usable Capacity) — 92.5%

54.1 liters (14.3 gallons) TO 56.0 liters (14.8 gallons)

ACTUAL TEST VOLUME = 54.9 liters (14.5 gallons) (with entire fuel system filled)

Test Fluid Type: Stoddard solvent
Test Fluid Specific Gravity: .7583
Test Fluid Kinematic Viscosity: 1.7 centistokes at 77°F
Test Fluid Color: __BLUE___ ("red" is preferred)
Type of Vehicle Fuel Pump: __ELECTRIC__
Electric Fuel Pump Operation with Ignition Switch ON and Engine OFF —__NO, FUEL PUMP ONLY OPERATES WITH ENGINE RUNNING__
Details of Fuel System: __HIGH PRESSURE ELECTRIC FUEL PUMP__
SUPPLYING FUEL INJECTORS WITH LOW PRESSURE RETURN LINE TO FUEL TANK.

REMARKS:

RECORDED BY: [Signature] DATE: 06/02/03
APPROVED BY: [Signature]
DATA SHEET 3
POST IMPACT DATA

TYPE OF TEST: 301L
TEST DATE: 06/03/03; TIME: 11:45; TEMP.: 72 °F
VEH. NHTSA NO.: C35600; VIN: JA4LZ41G93U030448

REQUIRED IMPACT VELOCITY RANGE: __18.9__ to __19.9__ mph

ACTUAL IMPACT VELOCITY: (speed traps located within 5 feet of impact plane)

Trap No. 1 = __19.5__ mph
Trap No. 2 = __19.5__ mph
Average Impact Speed = __19.5__ mph

REMARKS:

RECORDED BY: DATE: __06/03/03__
APPROVED BY:
DATA SHEET 4
SUMMARY OF FMVSS 301 DATA

TEST VEHICLE NHTSA NO.: C35600
TEST DATE: 06/03/03

VEHICLE YEAR/MAKE/MODEL/BODY STYLE:
2003 MITSUBISHI OUTLANDER

TYPE OF IMPACT: 301L

STODDARD SOLVENT SPILLAGE MEASUREMENT:

A. From impact until vehicle motion ceases —
   Actual = 0 oz.  Maximum Allowable = 1 ounce

B. For 5 minute period after vehicle motion ceases —
   Actual = 0 oz.  Maximum Allowable = 5 ounces

C. For next 25 minutes —
   Actual = 0 oz.  Maximum Allowable = 1 oz./minute

D. Provide Spillage Details: NONE

REMARKS:

RECORDED BY:   DATE: 06/03/03
APPROVED BY:   K. Myszka
DATA SHEET 5
STATIC ROLLOVER TEST DATA:

A. Test Phase = 0° to 90°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90° Rotation Time = 1 minute, 35 seconds

(Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 35 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz.
   (5 oz. allowed)

2. 6th minute = 0 oz.
   (1 oz. allowed)

3. 7th minute = 0 oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
B. Test Phase = 90° to 180°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = _1_ minutes, _32_ seconds

   (Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
   Time = 5 minutes, 0 seconds

3. TOTAL = _6_ minutes, _32_ seconds

4. NEXT WHOLE MINUTE INTERVAL = _7_ minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = _0_ oz.
   (5 oz. allowed)

2. 6th minute = _0_ oz.
   (1 oz. allowed)

3. 7th minute = _0_ oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
C. Test Phase = 180° to 270°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = 1_ minutes, __ 29__ seconds

   (Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
   Time = 5 minutes, 0 seconds

3. TOTAL = 6__ minutes, ___ 29__ seconds

4. NEXT WHOLE MINUTE INTERVAL = 7__ minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0__ oz.
   (5 oz. allowed)

2. 6th minute = 0__ oz.
   (1 oz. allowed)

3. 7th minute = 0__ oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
D. Test Phase = 270° to 360°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = 1 minute, 40 seconds

   (Specified Range is 1 to 3 minutes)

2. FMVSS 301 Position Hold
   Time = 5 minutes, 0 seconds

3. TOTAL = 6 minutes, 40 seconds

4. NEXT WHOLE MINUTE INTERVAL = 7 minutes

Actual Test Vehicle Stoddard Solvent Spillage:

1. First 5 minutes from onset of rotation = 0 oz.
   (5 oz. allowed)

2. 6th minute = 0 oz.
   (1 oz. allowed)

3. 7th minute = 0 oz.
   (1 oz. allowed)

4. 8th minute (if required) = N/A oz. (1 oz. allowed)

Provide Details of Stoddard Solvent Spillage Locations — NONE
DATA SHEET 6
CAMERA LOCATION

VEHICLE NHTSA NO.: C35600 TEST DATE: 06/03/03

PHOTO PIT

TEST VEHICLE

NO STEEL GRATING ALLOWED OVER PHOTO PIT

CONCRETE PAD

TOW ROAD

MONORAIL

TOP VIEW

CAMERA 1 – REAR SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 2 – FRONT SIDE VIEW OF VEHICLE DURING CRASH
CAMERA 3 – OVERHEAD VIEW OF ENTIRE IMPACT
CAMERA 4 – UNDERBODY VIEW OF FUEL TANK LOCATED IN PIT
### TABLE 1 - INSTRUMENTATION & EQUIPMENT LIST

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<th>EQUIPMENT</th>
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<th>MODEL/ SERIAL NO.</th>
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<th>NEXT CAL. DATE</th>
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SECTION 5

PHOTOGRAPHS
2003 MITSUBISHI OUTLANDER
NHTSA NO. C35600
FMVSS NO. 301L

FIGURE 5.6
3/4 REAR VIEW FROM RIGHT SIDE OF VEHICLE PRE-TEST
2003 MITSUBISHI OUTLANDER
NHTSA NO. C36600
FMVSS NO. 301L

FIGURE 5.7
LEFT VIEW OF VEHICLE/BARRIER
PRE-TEST
2005 MITSUBISHI OUTLANDER
NHTSA NO. C35660
FMVSS NO. 301L

FIGURE 5.11
UNDERBODY VIEW OF FUEL TANK REAR VIEW PRE-TEST
2003 MITSUBISHI OUTLANDER
NHTSA NO. C35600
FMVSS NO. 301.

FIGURE 5.13
UNDERBODY VIEW OF FUEL FILL AND VENT LINES PRE-TEST
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<td>(Check with Tire Cool)</td>
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<table>
<thead>
<tr>
<th>Standard Inflation Pressure for All Load</th>
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<tr>
<td>1st Seat: 2 Passengers</td>
</tr>
<tr>
<td>2nd Seat: 3 Passengers</td>
</tr>
<tr>
<td>Total: 5 Passengers</td>
</tr>
<tr>
<td>Luggage: 35 kg (77 lbs)</td>
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<tr>
<td>Total Weight: 375 kg (827 lbs)</td>
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<table>
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<th>Tire Size</th>
<th>Front &amp; Rear</th>
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<tr>
<td>P225/60R16</td>
<td>29 PSI (200 kPa)</td>
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</table>

Temporary Tire Size:

| T135/90D16  | 60 PSI (420 kPa) |

2003 MITSUBISHI OUTLANDER
Vehicle Tire Information Label

SHIUSA NO. C35600
FMVSS NO. 5011
2003 MITSUBISHI OUTLANDER
NHTSA NO. C35600
FMVSS NO. 301 L

FIGURE 5.26
½ REAR VIEW FROM RIGHT SIDE OF VEHICLE POST TEST
2003 MITSUBISHI OUTLANDER
NHTSA NO. C35600
FMVSS NO. 301L

FIGURE 5.34
UNDERBODY VIEW OF FUEL LINES AT TANK POST TEST
2003 MITSUBISHI OUTLANDER
NHTSA NO. C35600
IMVSS NO. 3011.

FIGURE 5.41
VEHICLE IN ROLLOVER FIXTURE AT 370°
NOTES:
1. Face Plate 0.50 in. (19mm) thick cold rolled steel
2. All inner Reinforcements 4.0 x 2.0 x 0.19 in. (102 x 51 x 5mm) Steel Tubing
3. Impact Surface above shown without .75 x 48 x 96 in. Plywood Face attached
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<th>MILLIMETERS</th>
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<td>C</td>
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<td>E</td>
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TEST SET-UP OF COMMON CARRIAGE WITH 60" x 78" FLAT FACE IMPACT SURFACE INSTALLED:

LEFT FRONT WEIGHT 1081
RIGHT FRONT WEIGHT 1079
LEFT REAR WEIGHT 882
RIGHT REAR WEIGHT 873
TOTAL WEIGHT 3915

* EXCLUDING 3/4" PLYWOOD FACE

DIMENSIONS FOR GTL 60" x 78" FLAT FACE IMPACT SURFACE