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

HONDA OF CANADA MFG.
2003 HONDA PILOT EX MPV
NHTSA NO. C35300

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

JUNE 04, 2003
FINAL REPORT
PREPARED FOR
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
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: 6/4/03

FINAL REPORT ACCEPTANCE BY OVSC:

Accepted By: [Signature]
Acceptance Date: 6/4/03
Compliance tests were conducted on the subject, 2003 Honda Pilot EX 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:

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<tr>
<td>Safety Engineering</td>
<td>NHTSA NHTSA Technical Reference Div.,</td>
</tr>
<tr>
<td>FMVSS 301</td>
<td>Rm. 5108 (NPO-230)</td>
</tr>
<tr>
<td></td>
<td>400 7th St., S.W., Washington, DC 20590</td>
</tr>
<tr>
<td></td>
<td>Telephone No. (202) 366-4946</td>
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1.0 PURPOSE OF COMPLIANCE TEST

A 2003 Honda Pilot EX 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 Honda Pilot EX MPV. Nomenclature applicable to the test vehicle are:

A. Vehicle Identification Number: 2HKYF18493H531235

B. NHTSA No.: C35300

C. Manufacturer: HONDA OF CANADA MFG.

D. Manufacture Date: 09/02

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 301 testing on May 13, 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 Honda Pilot EX 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 Honda Pilot EX MPV.
SUMMARY OF RESULTS

Vehicle's NHTSA No.: C35300 Test Model: PILOT

Test Date: 05/13/03 Time: 18:19 Temperature 70°F

Vehicle Model Year, Make, Model and Body Style:
2003 HONDA PILOT EX MPV

Vehicle Test Weight: 4835 lbs. Impact Velocity: 19.4 mph

Type of Front Occupant Restraint System Installed in Test Vehicle:

Driver's DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN STEERING WHEEL

Right Passenger's DSP: TYPE 2 BELT WITH FRONTAL AIR BAG IN DASH

Stoddard solvent spillage from Vehicle's Fuel System: None

REMARKS:

RECORDED BY: [Signature] DATE: 05/13/03

APPROVED BY: [Signature]
DATA SHEET 1
TEST VEHICLE SPECIFICATIONS

TEST VEHICLE INFORMATION:

NHTSA No.: C35300
Year/Make/Model/Body Style: 2003 HONDA PILOT EX MPV
Engine Data: 240 HP, 3.5 LITERS, 24 VALVE V6
Transmission Data: 5 SPEED AUTOMATIC
Final Drive Data: 4 WHEEL DRIVE
Major Options: CRUISE CONTROL, FRONT & REAR CLIMATE CONTROL SYSTEM
Date Received: 02/24/03 Odometer Reading: 671 miles

DATA FROM VEHICLE'S CERTIFICATION LABEL:

Vehicle Manufactured By: HONDA OF CANADA
Date of Manufacture: 09/02
VIN: 2HKYF18493H531235

GVWR: 2899 kg (6395 lbs.); GAWR Front: 1299 kg (2865 lbs.); GAWR Rear: 1431 kg (3155 lbs.)

DATA FROM VEHICLE'S TIRE PLACARD:

Location of Placard on Vehicle: DRIVER'S "B" PILLAR
Tire Pressure With Maximum Capacity Vehicle Load —
Front: 32 psi; Rear: 32 psi
Recommended Tire Size: P235/70R16

Recommended Cold Tire Pressure: Front = 220 kPa (32 psi) Rear = 220 kPa (32 psi)
Size of Tires on Test Vehicle: P235/70R16
Type of Spare Tire: SPACE SAVER P155/90R16 110M

Vehicle Capacity Data —

Type of Front Seat(s): BUCKET
Number of Occupants: Front = 2; Mid = 3; Rear = 3; Total = 8

A. VEHICLE CAPACITY WEIGHT (VCW) = 1322 lbs.
B. Number of Occupants x 150 lbs. = 1200 lbs.
RATED CARGO AND LUGGAGE WEIGHT (RCLW) = A - B = 122 lbs.

RECORDED BY: DATE: 05/13/03
APPROVED BY:
DATA SHEET 2
PRE-TEST DATA

WEIGHT OF TEST VEHICLE:

A. As Received At Laboratory (Maximum Fluids) —

Right Front = 546.57 kg (1205 lbs.)  Right Rear = 489.87 kg (1080 lbs.)

Left Front = 562.48 kg (1240 lbs.)  Left Rear = 393.71 kg (868 lbs.)

TOTAL FRONT = 1109.02 kg (2445 lbs.)  TOTAL REAR = 883.58 kg (1948 lbs.)

% of TOTAL = ___55.6__ %  % of TOTAL = ___44.34__ %

TOTAL DELIVERED WEIGHT = ___1992.63___ kg (4393 lbs.)

B. Calculation of Target Test Weight —

1. Total Delivered Weight = ___1992.63___ kg (4393 lbs.)

2. Rated Cargo & Lugg. Weight (RCLW) = ___55.33___ kg (122 lbs.)

3. Weight of 2 Dummies (164 lbs. each) = ___149___ kg (328 lbs.)

TARGET TEST WEIGHT = 1 + 2 + 3 = ___2401___ kg (4843 lbs.)

C. Vehicle, Dummies and ___79.37___ kg (175 lbs.) of Cargo Weight —

Right Front = 569.25 kg (1255 lbs)  Right Rear = 571.97 kg (1261 lbs)

Left Front = 589.67 kg (1300 lbs)  Left Rear = 462.21 kg (1019 lbs)

TOTAL FRONT = 1158 kg (2555 lbs)  TOTAL REAR = 1034 kg (2280 lbs)

% of TOTAL = ___53___ %  % of TOTAL = ___47___ %

TOTAL TEST WEIGHT = ___2193___ kg (4835 lbs)

Weight of Ballast secured in cargo area = ___56.69___ kg (125 lbs)

Type of Ballast: SAND BAGS

Method of Securing Ballast: VEHICLE CARGO TIE DOWN HOOKS

Vehicle Components Removed for Weight Reduction:

___________________________  NONE  ___________________________
DATA SHEET 2
PRE-TEST DATA CONTINUED

TEST VEHICLE ATTITUDE:

As Delivered —
Right Front: 855 mm (33.6 inches)
Left Front: 850 mm (34.5 inches)
Right Rear: 850 mm (34.5 inches)
Left Rear: 840 mm (33.1 inches)

As Tested —
Right Front: 843 mm (33.2 inches)
Left Front: 838 mm (32.9 inches)
Right Rear: 820 mm (32.3 inches)
Left Rear: 811 mm (31.9 inches)

Vehicle's Wheelbase = 2700 mm (106 inches)

FUEL SYSTEM DATA:

Fuel System Capacity Listed in Owner's Manual = 73.05 liters (19.3 gallons)
Usable Capacity Figure Furnished By COTR = 72.67 liters (19.2 gallons)

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

66.13 liters (17.47 gallons) TO 68.28 liters (18.04 gallons)

ACTUAL TEST VOLUME = 67.38 liters (17.8 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: IN TANK ELECTRIC
Electric Fuel Pump Operation with Ignition Switch ON and Engine OFF — YES

Details of Fuel System: HIGH PRESSURE ELECTRIC FUEL PUMP TO SUPPLY FUEL INJECTORS WITH LOW PRESSURE RETURN LINE TO FUEL TANK.

REMARKS:

RECORDED BY: [Signature] DATE: 05/13/03
APPROVED BY: [Signature]
DATA SHEET 3
POST IMPACT DATA

TYPE OF TEST: 301L
TEST DATE: 05/13/03 TIME: 18:19 TEMP: 70 °F
VEH. NHTSA NO: C35300 VIN: 2HKYF18493H531235

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 = 19.4 mph
Trap No. 2 = 19.4 mph
Average Impact Speed = 19.4 mph

REMARKS:

RECORDED BY: DATE: 05/13/02
APPROVED BY:
DATA SHEET 4
SUMMARY OF FMVSS 301 DATA

TEST VEHICLE NHTSA NO.: C35300; TEST DATE: 05/13/03.

VEHICLE YEAR/MAKE/MODEL/BODY STYLE:
2003 HONDA PILOT EX MPV

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: [Signature]
APPROVED BY: [Signature] DATE: 05/13/03
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
   minutes, _33_ seconds

   (Specified Range is 1 to 3
   minutes)

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

3. TOTAL = _6_ minutes, _33_ 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 5 CONTINUED

B. Test Phase = 90° to 180°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = _1_ minutes, 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
DATA SHEET 5 CONTINUED

C. Test Phase = 180° to 270°

Determination of Stoddard Solvent Collection Time Period:

1. Rollover Fixture 90°
   Rotation Time = 1 minutes, 28 seconds
   (Specified Range is 1 to 3 minutes)

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

3. TOTAL = 6 minutes, 28 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, 43 seconds

(Specified Range is 1 to 3 minutes)

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

3. TOTAL = 6 minutes, 43 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.: C35300

TEST DATE: 05/13/03

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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SECTION 5

PHOTOGRAPHS
2003 HONDA PILOT
NHTSA NO. C35300
FMVSS NO. 301L

FIGURE 5.16
UNDERBODY VIEW OF FUEL LINES AT TANK
PRE-TEST
### TIRE INFORMATION

<table>
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<tr>
<th>GVWR</th>
<th>3350 lbs</th>
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<tr>
<td>WB</td>
<td>FRONT: 2365 lbs, REAR: 3155 lbs</td>
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<tr>
<td>VEHICLE CAPACITY WEIGHT</td>
<td>1322 lbs</td>
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<tr>
<td>TIRE SIZE</td>
<td>P235/70R16 104S</td>
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<td>RH SAE</td>
<td>10x6 5/4.5</td>
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<td>COLD TIRE INFLATION</td>
<td>220 kPa, 32 psi</td>
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<td>INFLATION UP TO VEHICLE CAPACITY WEIGHT</td>
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<tr>
<td>LOAD LIMIT</td>
<td>1153/2603 lbs, 1104</td>
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<td>INFLATION PRESSURE</td>
<td>420 kPa, 60 psi</td>
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*SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION*

**FIGURE 5.18**

TIRE INFORMATION LABEL
FIGURE 5.19
VEHICLE FUEL CAP PRE-TEST
2003 HONDA PILOT
NHTSA NO. C35300
FMVSS NO. 301L

FIGURE 5.21
LEFT SIDE VIEW OF VEHICLE POST TEST
2003 HONDA PILOT
NHTSA NO. C35300
FMVSS NO. 301L

FIGURE 5.25
¾ REAR VIEW FROM RIGHT SIDE OF VEHICLE
POST TEST
FIGURE 5.39
VEHICLE IN ROLLOVER FIXTURE AT 270°
SECTION 6

BARRIER INFORMATION
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

DIMENSIONS SHOWN IN TABLE ON NEXT PAGE
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<td>D</td>
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<td>991</td>
</tr>
<tr>
<td>E</td>
<td>78.0</td>
<td>198</td>
</tr>
</tbody>
</table>

**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**