SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 138
TIRE PRESSURE MONITORING SYSTEMS

MITSUBISHI MOTORS CORPORATION
2008 MITSUBISHI LANCER
FOUR-DOOR PASSENGER CAR
NHTSA NO. C85603

U.S. DOT SAN ANGELO TEST FACILITY
131 COMANCHE TRAIL, BUILDING 3527
GOODFELLOW AFB, TEXAS 76908

September 9, 2008

FINAL REPORT

PREPARED FOR

U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
NVS-220
OFFICE OF VEHICLE SAFETY COMPLIANCE
1200 NEW JERSEY AVENUE, SE
WASHINGTON, D.C. 20590
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Prepared By: Doris Beebe

Approved By: Ken H. Gates

Accepted By: John Finneman

Acceptance Date: 9/9/08

Compliance tests were conducted on the subject 2008 Mitsubishi Lancer four-door passenger car in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-138-03 for the determination of FMVSS 138 compliance. Test failures identified were as follows: NONE.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1  Introduction</td>
<td>1</td>
</tr>
<tr>
<td>2  Test Procedure and Summary of Results</td>
<td>2</td>
</tr>
<tr>
<td>3  Test Data</td>
<td>4</td>
</tr>
<tr>
<td>Test Data Summary</td>
<td>5</td>
</tr>
<tr>
<td>Vehicle Weigh-in for LLVW</td>
<td>12</td>
</tr>
<tr>
<td>Scenario A – Right Rear Tire Deflation at LLVW</td>
<td>13</td>
</tr>
<tr>
<td>Scenario B – Left Front, Left Rear, Right Front Tire Deflation at LLVW</td>
<td>16</td>
</tr>
<tr>
<td>Vehicle Weigh-in for UVW + VCW</td>
<td>20</td>
</tr>
<tr>
<td>Scenario C – Left Rear, Right Front Tire Deflation at UVW + VCW</td>
<td>21</td>
</tr>
<tr>
<td>Scenario D – Left Front, Left Rear, Right Rear, Right Front Tire Deflation at UVW + VCW</td>
<td>24</td>
</tr>
<tr>
<td>Scenario E – Malfunction Detection Test at LLVW</td>
<td>27</td>
</tr>
<tr>
<td>Scenario F – Malfunction Detection Test at LLVW</td>
<td>29</td>
</tr>
<tr>
<td>TPMS Written Instructions</td>
<td>31</td>
</tr>
<tr>
<td>4  Test Equipment List and Calibration Information</td>
<td>34</td>
</tr>
<tr>
<td>5  Photographs</td>
<td>35</td>
</tr>
</tbody>
</table>

**Figure**

5.1 ¾ Frontal View from Left Side of Vehicle
5.2 Vehicle Certification Label
5.3 Vehicle Placard
5.4 Tire Showing Brand
5.5 Tire Showing Model
5.6 Tire Showing Size and Load Index / Speed Rating
5.7 Tire Showing DOT Serial Number
5.8 Tire Showing Max Load Rating and Max Cold Inflation Pressure
5.9 Tire Showing Sidewall / Tread Construction
5.10 Rim Showing Valve Stem
5.11 Display Showing Combination Low Tire Pressure / Malfunction
   Telltale and Message Center Low Pressure Warning
5.12 Display Showing Combination Low Tire Pressure / Malfunction
   Telltale and Message Center TPMS Malfunction Warning
5.13 Test Instrumentation on Vehicle
5.14 Vehicle Rear Seat Ballast for UVW + VCW Load
5.15 Rear of Vehicle Ballast for UVW + VCW Load
5.16 Vehicle on Weight Scales
5.17 Spare Installed on Right Front for Malfunction Detection Test

Test Plots ....................................................................................................................... 53
SECTION 1
INTRODUCTION

1.1 PURPOSE OF COMPLIANCE TEST

A 2008 Mitsubishi Lancer four-door passenger car was tested to determine if the vehicle was in compliance with the requirements of FMVSS 138. All tests were conducted in accordance with NHTSA/Office of Vehicle Safety Compliance (OVSC) Laboratory Test Procedure TP-138-03 dated July 12, 2007.

1.2 TEST VEHICLE

The test vehicle was a 2008 Mitsubishi Lancer four-door passenger car. Nomenclatures applicable to the test vehicle are:

A. Vehicle Identification Number: JA3AU16U08U036749

B. NHTSA Number: C85603

C. Manufacturer: Mitsubishi Motors Corporation

D. Manufacture Date: 10/2007

1.3 TEST DATE

The test vehicle was tested during the time period August 15 through August 21, 2008.
SECTION 2
TEST PROCEDURE AND SUMMARY OF RESULTS

2.1 TEST PROCEDURE

Prior to test, the test vehicle was inspected for completeness, systems operability, and appropriate fuel and liquid levels, i.e. oil and coolant. The vehicle was then photographically documented as required by the NHTSA/OVSC Test Procedure. Tire sidewall information was recorded. The owner’s manual was reviewed, and pertinent tire and TPMS information were noted. Telltale’s symbol, color, location and lamp function were checked.

Subsequent events included weighing the vehicle to establish the Unloaded Vehicle Weight (UVW) and the distribution of weight on the front and rear axles and each wheel position. The vehicle was loaded to its Lightly Loaded Vehicle Weight (LLVW) for two tire deflation scenarios. This LLVW included the weights of driver, one passenger, and test equipment. The vehicle was loaded to its Unloaded Vehicle Weight plus Vehicle Capacity Weight (VCW) for two additional tire deflation scenarios. The VCW included the weights of driver, one passenger, test equipment, ballast in the rear seat, and ballast in the internal cargo area. The vehicle is required to be loaded to its maximum capacity without exceeding either the Vehicle Capacity Weight or Gross Vehicle Weight Rating (GVWR). For determination of the telltale warning activation pressure, the recommended cold inflation pressure was identified from the vehicle placard.

The vehicle was instrumented with a Racelogic VBOX III 100 Hz GPS Data Logger and brake pedal trigger. The VBOX uses GPS to measure vehicle speed, time, and distance. Test data were recorded to a compact flash card. During the test, a stopwatch was used to determine the approximate “cumulative driving time” during each test phase. Cumulative driving time does not include time during the brake application or when the vehicle speed was below 50 km/h or above 100 km/h. Upon completion of a tire deflation scenario, graphs were generated by VBOX software showing vehicle speed versus time during the test procedures. The graphs furnish a second-by-second analysis of each calibration phase. The cumulative driving time was calculated by post processing the VBOX graph data and is reported in Section 3 (Test Data) as 'Total Driving Time'. Driving above 50 km/h was not required for the detection phases.

The tire deflation test scenario consisted of four phases:
1. Calibration phase: Tires were set at vehicle placard cold inflation pressure and the vehicle was driven for at least twenty minutes of cumulative driving time between 50 and 100 km/h.
2. Detection phase: Immediately after calibration phase, the selected tire(s) were deflated to seven kPa (one psi) below the Telltale Warning Activation Pressure. After one minute, the inflation pressure(s) of only deflated tire(s) were rechecked and adjusted if necessary. The vehicle was started and driven, but in all scenarios illumination occurred before a speed of 50 km/h was reached.
3. Cool down phase: Vehicle was parked in the San Angelo Test Facility (SATF) open bay shielded from direct sunlight. Tires were allowed to cool down for a minimum of one hour. After cool down, the vehicle was started and the low tire pressure telltale was checked for re-illumination.

4. Extinguishment phase: Tires were adjusted to vehicle placard cold inflation pressure. The vehicle is normally started and driven between 50 and 100 km/h to verify telltale extinguishment, but in these instances the Lancer telltale extinguished before 50 km/h was reached.

Two malfunction detection scenarios were performed with the vehicle loaded to its LLVW. The first malfunction was simulated by placing the compact spare tire, with no TPMS sensor, on the right front wheel position. The malfunction telltale properly operated within the requisite driving period. The second malfunction was simulated by disconnecting the TPMS ECU by removing a wiring connection on the steering column. The malfunction telltale sequence properly operated immediately upon engine ignition. Driving the vehicle was not necessary for this scenario.

2.2 SUMMARY OF RESULTS

Two tire deflation scenarios were performed on the test vehicle at LLVW:

A. Right rear
B. Left front, left rear, and right front

Two tire deflation scenarios were performed on the test vehicle at UVW + VCW:

C. Right front and left rear
D. Left front, left rear, right rear, and right front

The data indicate compliance of the test vehicle’s tire pressure monitoring system for the four tire deflation scenarios tested.

Two malfunction detection scenarios were performed on the test vehicle at LLVW:

E. Spare tire without TPMS sensor was applied to right front wheel position.
F. TPMS ECU was disconnected by removing wiring connection on steering column.

In both scenarios the vehicle’s combination malfunction telltale properly operated per the standard’s requirements.
SECTION 3
TEST DATA
<table>
<thead>
<tr>
<th>REQUIREMENTS</th>
<th>PASS/FAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LOW TIRE PRESSURE WARNING TELLTALE</strong></td>
<td></td>
</tr>
<tr>
<td>S138: S4.3.1 (a), (b); S4.3.3 (a), (b)</td>
<td></td>
</tr>
<tr>
<td>Mounting</td>
<td>PASS</td>
</tr>
<tr>
<td>Symbol and color</td>
<td>PASS</td>
</tr>
<tr>
<td>Check of lamp function</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>MALFUNCTION TELLTALE</strong></td>
<td></td>
</tr>
<tr>
<td>S138: S4.4 (b) or (c)</td>
<td></td>
</tr>
<tr>
<td>Mounting</td>
<td>PASS</td>
</tr>
<tr>
<td>Symbol and color</td>
<td>PASS</td>
</tr>
<tr>
<td>Check of lamp function</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>LOW TIRE PRESSURE WARNING - OPERATIONAL PERFORMANCE</strong></td>
<td></td>
</tr>
<tr>
<td>S138: S4.2, S4.3.1 (c), S4.3.2</td>
<td></td>
</tr>
<tr>
<td>Telltale illumination</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>MALFUNCTION INDICATOR – OPERATIONAL PERFORMANCE</strong></td>
<td></td>
</tr>
<tr>
<td>S138: S4.4 (a)</td>
<td></td>
</tr>
<tr>
<td>Telltale illumination</td>
<td>PASS</td>
</tr>
<tr>
<td><strong>TPMS WRITTEN INSTRUCTIONS</strong></td>
<td></td>
</tr>
<tr>
<td>S138: S4.5</td>
<td></td>
</tr>
<tr>
<td>Image of telltales</td>
<td>PASS</td>
</tr>
<tr>
<td>Verbatim statements</td>
<td>PASS</td>
</tr>
</tbody>
</table>

**REMARKS:** None
DATA SHEET 1 (Sheet 1 of 3)
TEST PREPARATION INFORMATION

TEST DATE: August 15, 2008 LAB: U. S. DOT San Angelo Test Facility

VEHICLE NHTSA NUMBER: C85603 VIN: JA3AU16U08U036749

CERTIFICATION LABEL BUILD DATE: 10/2007 ENGINE: 2.0 liter DOHC I4 MIV

MY/MAKE/MODEL/BODY STYLE: 2008 Mitsubishi Lancer four-door passenger car

TIRE CONDITIONING:
( X ) Tires used more than 100 km. Actual odometer reading: 748 km (465 mi)

VEHICLE ALIGNMENT AND WHEEL BALANCING:
Alignment checked: ( ) Front ( ) Rear ( X ) COTR waived
Wheels balanced: ( ) Front ( ) Rear ( X ) COTR waived

TPMS IDENTIFICATION:
TPMS MAKE/MODEL: OMRON (Receiver and ECU); Continental (Pressure Sensor, model #4250A225 / TG1B-HT)
Source: Manufacturer supplied information

TPMS TYPE: ( X ) Direct ( ) Indirect ( ) Other

TPMS MALFUNCTION INDICATOR TYPE:
( ) None ( ) Dedicated Telltale ( X ) Combination low tire pressure/malfunction telltale

Does TPMS require execution of a learning/calibration driving phase? ( )YES ( X )NO
Source: Manufacturer supplied information

Does TPMS have a manual reset control? ( )YES ( X )NO
### DESIGNATED TIRE SIZE(S) FROM VEHICLE LABELING AND OWNER’S MANUAL:

<table>
<thead>
<tr>
<th>Axle</th>
<th>Tire Size</th>
<th>Recommended Cold Inflation Pressure</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>P205/60R16</td>
<td>220 kPa (32 psi)</td>
<td>Vehicle placard</td>
</tr>
<tr>
<td>Rear</td>
<td>P205/60R16</td>
<td>220 kPa (32 psi)</td>
<td>Vehicle placard</td>
</tr>
<tr>
<td>Spare</td>
<td>T125/70D16</td>
<td>420 kPa (60 psi)</td>
<td>Vehicle placard</td>
</tr>
</tbody>
</table>

### INSTALLED TIRE DATA (Use diagrams as reference):

Diagram - Passenger Car Tire Labeling  
Diagram - Other Markings on Light Trucks

![Diagram - Passenger Car Tire Labeling](image1.png)  
![Diagram - Other Markings on Light Trucks](image2.png)

**Front and Rear Axles**

**Tire Size and Load Index / Speed Rating:** P205/60R16 91H

**Manufacturer/Tire Name:** Yokohama Avid S34

**Sidewall Max Load Rating:** 615 kg (1,356 lbs)

**Max Inflation Pressure:** 300 kPa (44 psi)

**Sidewall Construction (number of plies and ply material):** 1 polyester

**Tread Construction (number of plies and ply material):** 1 polyester, 2 steel, 1 nylon

**Do all installed tires have the same sidewall information?** (X) YES  ( ) NO

**Are all installed tires the same as designated by the vehicle manufacturer on the vehicle placard?** (X) YES  ( ) NO
Worksheet for Determining FMVSS No. 138 Telltale Warning Activation Pressure for Tires Installed on Vehicle

<table>
<thead>
<tr>
<th>Part</th>
<th>Front Axle</th>
<th>Rear Axle</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A) Recommended Inflation Pressure x .75</td>
<td>220 kPa x .75 = 165.0 kPa</td>
<td>220 kPa x .75 = 165.0 kPa</td>
</tr>
<tr>
<td>(B) Information from FMVSS 138 Table 1 below, Tire types are:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflation pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum activation pressures from Table 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(X) P-metric-Standard load</td>
<td>300 kPa (44 psi)</td>
<td>300 kPa (44 psi)</td>
</tr>
<tr>
<td>( ) P-metric-Extra Load</td>
<td>140 kPa (20 psi)</td>
<td>140 kPa (20 psi)</td>
</tr>
<tr>
<td>Load Range (C), (D), or (E)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(X) Maximum or ( ) Rated</td>
<td>165.0 kPa (23.9 psi)</td>
<td>165.0 kPa (23.9 psi)</td>
</tr>
<tr>
<td>(D) Pressure at which to deflate tire(s) = (C) – 7 kPa</td>
<td>158.0 kPa (22.9 psi)</td>
<td>158.0 kPa (22.9 psi)</td>
</tr>
</tbody>
</table>

FMVSS 138 Table 1 - Low Tire Pressure Warning Telltale - Minimum Activation Pressure

<table>
<thead>
<tr>
<th>Tire Type</th>
<th>Maximum or Rated Inflation Pressure</th>
<th>Minimum Activation Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(kPa)</td>
<td>(psi)</td>
</tr>
<tr>
<td>P-metric -- Standard Load</td>
<td>240, 300, or 350</td>
<td>35, 44, or 51</td>
</tr>
<tr>
<td>P-metric - Extra Load</td>
<td>280 or 340</td>
<td>41 or 49</td>
</tr>
<tr>
<td>Load Range C</td>
<td>350</td>
<td>51</td>
</tr>
<tr>
<td>Load Range D</td>
<td>450</td>
<td>65</td>
</tr>
<tr>
<td>Load Range E</td>
<td>550</td>
<td>80</td>
</tr>
</tbody>
</table>

REMARKS: None

RECORDED BY: Jack R. Stewart DATE: August 15, 2008

APPROVED BY: Kenneth H. Yates
DATA SHEET 2 (Sheet 1 of 2)
LOW TIRE PRESSURE WARNING AND MALFUNCTION TELLTALE

TEST DATE: August 20, 2008       LAB: U. S. DOT San Angelo Test Facility

VEHICLE NHTSA NUMBER: C85603

TPMS Low Tire Pressure Warning Telltale

TPMS Low Tire Pressure Warning Telltale Location: Upper right center of instrument panel,
adjacent to upper left of tachometer

Telltale is mounted inside the occupant compartment in front of and in clear view of the driver?
(X) YES   ( ) NO (fail)

Identify Telltale Symbol Used (check box above figure).

Note any words or additional symbols used:
See Remarks

Telltale is part of a reconfigurable display?    ( ) YES   (X) NO

TPMS Malfunction Telltale

( ) None   ( ) Dedicated stand-alone   (X) Combined with low tire pressure telltale

Telltale is mounted inside the occupant compartment in front of and in clear view of the driver?
(X) YES   ( ) NO (fail)

Malfunction telltale is part of a reconfigurable display?    ( ) YES   (X) NO
Check Telltale Lamp Functions:

LOW TIRE PRESSURE TELLTEALE AND MALFUNCTION INDICATION, IF COMBINED

Ignition locking system position when telltale illuminates:

☐ OFF/LOCK    ☐ Between OFF/LOCK and ON/RUN

☐ ON/RUN    ☒ Between OFF/RUN and START

Is the telltale yellow in color?  ( ☒ )YES ( ☐ )NO (fail)

Time telltale remains illuminated 3.5 seconds.

Starter Interlocks:

Does vehicle have any starter, transmission or other interlocks that affect operation of the telltale lamp check function?  ( ☐ )YES  ( ☒ )NO

TEST RESULTS

Low Tire Pressure Warning and Malfunction Telltale (PASS/FAIL)  PASS

REMARKS: Upon low tire pressure detection or TPMS malfunction detection, messages and a duplicate telltale symbol display on a message center. See Figures 5.11 & 5.12.

RECORDED BY: Jack R. Stewart    DATE: August 20, 2008
APPROVED BY: Kenneth H. Yates
DATA SHEET 3 (Sheet 1 of 16)
TPMS OPERATIONAL PERFORMANCE

TEST DATE: August 15, 2008  LAB: U.S. DOT San Angelo Test Facility

VEHICLE NHTSA NUMBER: C85603

Time: Start: 08:54 am  End: 9:36 am

Ambient Temperature: Start: 24.7°C (76.5°F)  End: 25.2°C (77.4°F)

Odometer Reading: Start: 756 km (470 mi)

Fuel Level: Start: Full

Weather Conditions: Partly cloudy

Time vehicle remained with engine off and tires shielded from direct sunlight:
(1 hour minimum): overnight minutes

PRE-TEST TIRE INFLATION PRESSURES AND TIRE/SURFACE TEMPERATURES:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-test cold measurements after ambient soak: Inflation Pressure</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>26.4°C (79.5°F)</td>
<td>26.4°C (79.5°F)</td>
<td>26.2°C (79.2°F)</td>
<td>26.2°C (79.2°F)</td>
</tr>
</tbody>
</table>
VEHICLE WEIGHT:

Vehicle Ratings from Certification Label:

GVWR: 1,850 kg (4,079 lbs)
GAWR (front): 1,010 kg (2,227 lbs)
GAWR (rear): 910 kg (2,007 lbs)

Vehicle Capacity Weight: 375 kg (827 lbs)

Measured Unloaded Vehicle Weight:

<table>
<thead>
<tr>
<th></th>
<th>LF</th>
<th>LR</th>
<th>RF</th>
<th>RR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>398 kg</td>
<td>263 kg</td>
<td>379 kg</td>
<td>264 kg</td>
</tr>
<tr>
<td></td>
<td>(877 lbs)</td>
<td>(579 lbs)</td>
<td>(836 lbs)</td>
<td>(582 lbs)</td>
</tr>
<tr>
<td></td>
<td>777 kg</td>
<td>527 kg</td>
<td>877 kg</td>
<td>≤ GAWR</td>
</tr>
<tr>
<td></td>
<td>(1,713 lbs)</td>
<td>(1,161 lbs)</td>
<td>(1,935 lbs)</td>
<td>(≤ GAWR)</td>
</tr>
</tbody>
</table>

Total Vehicle 1,304 kg (2,874 lbs)

Measured Test Weight: (X) LLVW (+50, -0 kg) ( ) UVW + VCW ( ) GVWR (+0, -50 kg)

<table>
<thead>
<tr>
<th></th>
<th>LF</th>
<th>LR</th>
<th>RF</th>
<th>RR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>446 kg</td>
<td>312 kg</td>
<td>431 kg</td>
<td>317 kg</td>
</tr>
<tr>
<td></td>
<td>(984 lbs)</td>
<td>(687 lbs)</td>
<td>(951 lbs)</td>
<td>(698 lbs)</td>
</tr>
<tr>
<td></td>
<td>877 kg</td>
<td>629 kg</td>
<td>877 kg</td>
<td>≤ GAWR</td>
</tr>
<tr>
<td></td>
<td>(1,935 lbs)</td>
<td>(1,385 lbs)</td>
<td>(1,935 lbs)</td>
<td>(≤ GAWR)</td>
</tr>
</tbody>
</table>

Total Vehicle 1,506 kg (3,320 lbs) (not greater than GVWR)

Note: For scenarios A, B, E, and F, this total vehicle weight measures the vehicle loaded to Lightly Loaded Vehicle Weight (LLVW), 202 kg (446 lbs) of driver, passenger, and test equipment.
DATA SHEET 3 (Sheet 3 of 16)
TPMS OPERATIONAL PERFORMANCE
SCENARIO A – Right Rear Tire Deflation at LLVW

TEST DATE: August 15, 2008 LAB: U. S. DOT San Angelo Test Facility
VEHICLE NHTSA NUMBER: C85603
Note: See Data Sheet 3 (Sheet 2 of 16) for Test Weight.

TIRE INFLATION PRESSURES AND TIRE/SURFACE TEMPERATURES
BEFORE CALIBRATION PHASE:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After loading vehicle to lightly loaded vehicle weight, positioning vehicle at selected test start point, and vehicle cool down period:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient Temperature:</td>
<td>25.8°C (78.4°F)</td>
<td>Vehicle cool down period:</td>
<td>overnight</td>
<td></td>
</tr>
<tr>
<td>Inflation Pressure</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>28.2°C (82.8°F)</td>
<td>28.4°C (83.1°F)</td>
<td>28.2°C (82.8°F)</td>
<td>28.2°C (82.8°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td>29.4°C (84.9°F)</td>
<td>29.6°C (85.3°F)</td>
<td>29.6°C (85.3°F)</td>
<td>29.4°C (84.9°F)</td>
</tr>
</tbody>
</table>

SYSTEM CALIBRATION/LEARNING PHASE:

| Time: | Start: 15:34:12 UTC | End: 15:58:52 UTC |
| Trip Odometer Reading: | Start: 2.9 km (1.8 mi) | End: 35.4 km (22.0 mi) |
| Ambient Temperature: | Start: 26.1°C (79.0°F) | End: 26.0°C (78.8°F) |
| Roadway Temperature: | Start: 33.0°C (91.4°F) | End: 34.2°C (93.6°F) |

Driving in first direction:
- Goodfellow Air Force Base (GAFB) north gate
- Direction: see chart, page 54
- 10:07 minutes (stopwatch time) 16.1 km (10.0 mi) distance

Driving in opposite direction:
- US 87 crossover overpass
- Direction: see chart, page 54
- 10:30 minutes (stopwatch time) 16.4 km (10.2 mi) distance

Max speed: 99.6 km/h (61.9 mph)
Total Driving Time: 20:33 minutes (VBox time)
TPMS OPERATIONAL PERFORMANCE

SCENARIO A – Right Rear Tire Deflation at LLVW

TIRE INFLATION PRESSURES AND TEMPERATURES AFTER CALIBRATION PHASE:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediately, after vehicle is stopped, engine off:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflation Pressure</td>
<td>236.3 kPa (34.3 psi)</td>
<td>234.5 kPa (34.0 psi)</td>
<td>235.0 kPa (34.1 psi)</td>
<td>237.9 kPa (34.5 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>37.6°C (99.7°F)</td>
<td>35.0°C (95.0°F)</td>
<td>35.2°C (95.4°F)</td>
<td>37.8°C (100.0°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td>29.8°C (85.6°F)</td>
<td>29.8°C (85.6°F)</td>
<td>30.0°C (86.0°F)</td>
<td>30.0°C (86.0°F)</td>
</tr>
</tbody>
</table>

SYSTEM DETECTION PHASE:

LOCATION AND PRESSURE(S) OF DEFLATED TIRE(S):

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicate Location of Tire(s) Deflated:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( )LF ( )LR ( X )RR ( )RF</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflation Pressure</td>
<td></td>
<td></td>
<td>158.0 kPa (22.9 psi)</td>
<td></td>
</tr>
</tbody>
</table>

TELLTALE ILLUMINATION:

Driving in first direction:

Starting point: San Angelo Test Facility shop  Direction: west, north

2:12 minutes (stopwatch time – non-cumulative)  0.5 km (0.3 mi) distance

Driving above 50 km/hr was not required.

TELLTALE ILLUMINATES WITHIN 20 MINUTES: ( X )YES ( )NO (fail)

Does the vehicle have a telltale that identifies which tire(s) is (are) under-inflated?
( )YES ( X )NO

After 5 minutes with the ignition locking system in the “Off” or “Lock” position, does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position?
( X )YES ( )NO (fail)
DATA SHEET 3 (Sheet 5 of 16)
TPMS OPERATIONAL PERFORMANCE
SCENARIO A – Right Rear Tire Deflation at LLVW

Deactivate the ignition locking system and then re-start the vehicle engine. Does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position? ( X )YES ( )NO (fail)

TIRE INFLATION PRESSURES AND TEMPERATURES AFTER TELTTALE ILLUMINATION:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After vehicle cool down period:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient Temperature:</td>
<td>28.4°C (83.1°F)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vehicle cool down period:</td>
<td>64 minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflation Pressure</td>
<td>227.2 kPa (33.0 psi)</td>
<td>225.8 kPa (32.7 psi)</td>
<td>152.6 kPa (22.1 psi)</td>
<td>228.2 kPa (33.1 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>31.6°C (88.9°F)</td>
<td>32.0°C (89.6°F)</td>
<td>31.8°C (89.2°F)</td>
<td>31.8°C (89.2°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td>30.8°C (87.4°F)</td>
<td>31.2°C (88.2°F)</td>
<td>31.0°C (87.8°F)</td>
<td>30.8°C (87.4°F)</td>
</tr>
</tbody>
</table>

After the cool down period of a minimum of one hour, restart the vehicle engine. Does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position? ( X )YES ( )NO (fail)

TELLTALExtinguishment:

RE-ADJUSTED TIRE INFLATION PRESSURES:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After cool down period:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Re-adjusted Inflation Pressure:</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
</tr>
</tbody>
</table>

Is it necessary to drive the vehicle to extinguish the telltale? ( X )YES ( )NO

Starting point: San Angelo Test Facility shop  Direction: west

48 seconds (stopwatch time – non-cumulative)  0.2 km (0.1 mi) distance

TEST RESULTS
TPMS Performance Test Results (PASS/FAIL)  PASS
Right rear tire was deflated at LLVW.

REMARKS: None

RECORDED BY: Jack R. Stewart  DATE: August 15, 2008
APPROVED BY: Kenneth H. Yates
DATA SHEET 3 (Sheet 6 of 16)
TPMS OPERATIONAL PERFORMANCE

SCENARIO B – Left Front, Left Rear, Right Front Tire Deflation at LLVW

TEST DATE: August 19, 2008       LAB: U.S. DOT San Angelo Test Facility

VEHICLE NHTSA NUMBER: C85603

Note: See Data Sheet 3 (Sheet 2 of 16) for Test Weight.

TIRE INFLATION PRESSURES AND TIRE/SURFACE TEMPERATURES
BEFORE CALIBRATION PHASE:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After loading vehicle to lightly loaded vehicle weight, positioning vehicle at selected test start point, and vehicle cool down period:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient Temperature:</td>
<td>22.9°C (73.2°F)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vehicle cool down period:</td>
<td>overnight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflation Pressure</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>24.8°C (76.6°F)</td>
<td>24.4°C (75.9°F)</td>
<td>24.2°C (75.6°F)</td>
<td>24.8°C (76.6°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td>25.8°C (78.4°F)</td>
<td>26.0°C (78.8°F)</td>
<td>25.8°C (78.4°F)</td>
<td>25.8°C (78.4°F)</td>
</tr>
</tbody>
</table>

SYSTEM CALIBRATION/LEARNING PHASE:

Time: Start: 12:28:22 UTC    End: 12:53:58 UTC

Trip Odometer Reading: Start: 52.0 km (32.3 mi)  End: 84.7 km (52.6 mi)

Ambient Temperature: Start: 23.1°C (73.6°F)  End: 22.8°C (73.0°F)

Roadway Temperature: Start: 25.0°C (77.0°F)  End: 24.8°C (76.6°F)

Driving in first direction:

Starting point: GAFB north gate    Direction: see chart, page 55

10:13 minutes (stopwatch time)  16.1 km (10.0 mi) distance

Driving in opposite direction:

Starting point: US 87 crossover overpass    Direction: see chart, page 55

10:21 minutes (stopwatch time)  16.6 km (10.3 mi) distance

Max speed: 98.6 km/h (61.3 mph)

Total Driving Time: 20:34 minutes (VBox time)
DATA SHEET 3 (Sheet 7 of 16)
TPMS OPERATIONAL PERFORMANCE
SCENARIO B – Left Front, Left Rear, Right Front Tire Deflation at LLVW

TIRE INFLATION PRESSURES AND TEMPERATURES AFTER CALIBRATION PHASE:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediately, after vehicle is stopped, engine off: Inflation Pressure</td>
<td>235.0 kPa (34.1 psi)</td>
<td>232.4 kPa (33.7 psi)</td>
<td>234.6 kPa (34.0 psi)</td>
<td>236.7 kPa (34.3 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>33.2°C (91.8°F)</td>
<td>29.4°C (84.9°F)</td>
<td>30.2°C (86.4°F)</td>
<td>31.6°C (88.9°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td>25.6°C (78.1°F)</td>
<td>25.8°C (78.4°F)</td>
<td>25.6°C (78.1°F)</td>
<td>25.6°C (78.1°F)</td>
</tr>
</tbody>
</table>

SYSTEM DETECTION PHASE:

LOCATION AND PRESSURE(S) OF DEFLATED TIRE(S):

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicate Location of Tire(s) Deflated: Inflation Pressure</td>
<td>158.0 kPa (22.9 psi)</td>
<td>158.1 kPa (22.9 psi)</td>
<td></td>
<td>158.0 kPa (22.9 psi)</td>
</tr>
</tbody>
</table>

TELLTALE ILLUMINATION:

Driving in first direction:

Starting point: San Angelo Test Facility shop       Direction: west

56 seconds (stopwatch time – non-cumulative) 0.2 km (0.1 mi) distance

Driving above 50 km/hr was not required.

TELLTALE ILLUMINATES WITHIN 20 MINUTES: (X)YES ( )NO (fail)

Does the vehicle have a telltale that identifies which tire(s) is (are) under-inflated?

( )YES (X)NO

After 5 minutes with the ignition locking system in the “Off” or “Lock” position, does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position?

(X)YES ( )NO (fail)
Deactivate the ignition locking system and then re-start the vehicle engine. Does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position?  

( X )YES  (   )NO (fail)

TIRE INFLATION PRESSURES AND TEMPERATURES AFTER TELTALTE ILLUMINATION:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After vehicle cool down period:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient Temperature: 24.0°C (75.2°F)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflation Pressure: 152.4 kPa (22.1 psi)</td>
<td>153.3 kPa (22.2 psi)</td>
<td>224.2 kPa (32.5 psi)</td>
<td>152.7 kPa (22.1 psi)</td>
<td></td>
</tr>
<tr>
<td>Tire Sidewall Temp: 27.0°C (80.6°F)</td>
<td>26.4°C (79.5°F)</td>
<td>26.2°C (79.2°F)</td>
<td>26.4°C (79.5°F)</td>
<td></td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp: 26.2°C (79.2°F)</td>
<td>26.2°C (79.2°F)</td>
<td>26.4°C (79.5°F)</td>
<td>26.6°C (79.9°F)</td>
<td></td>
</tr>
</tbody>
</table>

After the cool down period of a minimum of one hour, restart the vehicle engine. Does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position?  

( X )YES  (   )NO (fail)

TELLTALTE EXTINGUISHMENT:  
RE-ADJUSTED TIRE INFLATION PRESSURES:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After cool down period:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Re-adjusted Inflation Pressure: 220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td></td>
</tr>
</tbody>
</table>

Is it necessary to drive the vehicle to extinguish the telltale?  

( X )YES  (   )NO

Starting point: San Angelo Test Facility shop  Direction: west  
57 seconds (stopwatch time – non-cumulative)  0.2 km (0.1 mi) distance

TEST RESULTS

TPMS Performance Test Results (PASS/FAIL)  
PASS
Left front, left rear, and right front tires were deflated at LLVW.

REMARKS: None

RECORDED BY: Jack R. Stewart  DATE: August 19, 2008

APPROVED BY: Kenneth H. Yates
DATA SHEET 3 (Sheet 9 of 16)
TPMS OPERATIONAL PERFORMANCE

TEST DATE: August 19, 2008  LAB: U.S. DOT San Angelo Test Facility

VEHICLE NHTSA NUMBER: C85603

Time: Start: 11:20 am  End: 11:40 am

Ambient Temperature: Start: 24.2°C (75.6°F)  End: 25.3°C (77.5°F)

Odometer Reading: Start: 907.7 km (564 mi)

Fuel Level: Start: Full

Weather Conditions: Partly cloudy

Time vehicle remained with engine off and tires shielded from direct sunlight: overnight

PRE-TEST TIRE INFLATION PRESSURES AND TIRE/SURFACE TEMPERATURES:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-test cold measurements after ambient soak: Inflation Pressure</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>27.4°C (81.3°F)</td>
<td>27.2°C (81.0°F)</td>
<td>27.0°C (80.6°F)</td>
<td>27.4°C (81.3°F)</td>
</tr>
</tbody>
</table>
**VEHICLE WEIGHT:**

Vehicle Ratings from Certification Label:

- **GVWR:** 1,850 kg (4,079 lbs)
- **GAWR (front):** 1,010 kg (2,227 lbs)
- **GAWR (rear):** 910 kg (2,007 lbs)

**Vehicle Capacity Weight:**

Vehicle Capacity Weight **375 kg (827 lbs)**

**Measured Unloaded Vehicle Weight:**

<table>
<thead>
<tr>
<th>Front Axle</th>
<th>LF 397 kg (875 lbs)</th>
<th>LR 261 kg (576 lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear Axle</td>
<td>RF 381 kg (839 lbs)</td>
<td>RR 263 kg (580 lbs)</td>
</tr>
</tbody>
</table>

**Total Vehicle:** 1,302 kg (2,870 lbs)

**Measured Test Weight:**

- ( ) LLVW (+50, -0 kg)
- ( ) UVW + VCW
- ( ) GVWR (+0, -50 kg)

<table>
<thead>
<tr>
<th>Front Axle</th>
<th>LF 457 kg (1,007 lbs)</th>
<th>LR 388 kg (856 lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear Axle</td>
<td>RF 440 kg (969 lbs)</td>
<td>RR 392 kg (865 lbs)</td>
</tr>
</tbody>
</table>

**Total Vehicle:** 1,677 kg (3,697 lbs) (not greater than GVWR)

Note: For scenarios C and D, this Total Vehicle Weight measures the vehicle loaded to Unloaded Vehicle Weight (UVW) and Vehicle Capacity Weight (VCW), 375 kg (827 lbs) of driver, passenger, test equipment, and ballast.
DATA SHEET 3 (Sheet 11 of 16)
TPMS OPERATIONAL PERFORMANCE
SCENARIO C – Left Rear, Right Front Tire Deflation at UVW + VCW

TEST DATE: August 20, 2008 LAB: U.S. DOT San Angelo Test Facility

VEHICLE NHTSA NUMBER: C85603

Note: See Data Sheet 3 (Sheet 10 of 16) for Test Weight.

TIRE INFLATION PRESSURES AND TIRE/SURFACE TEMPERATURES
BEFORE CALIBRATION PHASE:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After loading vehicle to lightly loaded vehicle weight, positioning vehicle at selected test start point, and vehicle cool down period:</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
</tr>
<tr>
<td>Ambient Temperature: 21.5°C (70.7°F)</td>
<td>Vehicle cool down period: overnight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflation Pressure</td>
<td>23.4°C (74.1°F)</td>
<td>23.4°C (74.1°F)</td>
<td>23.0°C (73.4°F)</td>
<td>23.4°C (74.1°F)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>25.0°C (77.0°F)</td>
<td>25.0°C (77.0°F)</td>
<td>24.6°C (76.3°F)</td>
<td>24.8°C (76.6°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SYSTEM CALIBRATION/LEARNING PHASE:

| Trip Odometer Reading: | Start: 87.7 km (54.5 mi) | End: 120.4 km (74.8 mi) |
| Ambient Temperature: | Start: 23.4°C (74.1°F) | End: 21.4°C (70.5°F) |
| Roadway Temperature: | Start: 23.4°C (74.1°F) | End: 25.2°C (77.4°F) |

Driving in first direction:

Starting point: GAFB north gate Direction: see chart, page 56
10:09 minutes (stopwatch time) 16.1 km (10.0 mi) distance

Driving in opposite direction:

Starting point: US 87 crossover overpass Direction: see chart, page 56
10:29 minutes (stopwatch time) 16.6 km (10.3 mi) distance

Max speed: 98.6 km/h (61.3 mph)
Total Driving Time: 20:39 minutes (VBox time)
TPMS OPERATIONAL PERFORMANCE

SCENARIO C – Left Rear, Right Front Tire Deflation at UVW + VCW

TIRE INFLATION PRESSURES AND TEMPERATURES AFTER CALIBRATION PHASE:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
</table>
| Immediately, after vehicle is stopped, engine off:  
Inflation Pressure | 236.2 kPa (34.3 psi) | 235.7 kPa (34.2 psi) | 237.4 kPa (34.4 psi) | 237.1 kPa (34.4 psi) |
| Tire Sidewall Temp | 33.4°C (92.1°F) | 31.2°C (88.2°F) | 31.0°C (87.8°F) | 32.6°C (90.7°F) |
| San Angelo Test Facility Shop Floor Temp | 25.2°C (77.4°F) | 25.4°C (77.7°F) | 25.4°C (77.7°F) | 25.6°C (78.1°F) |

SYSTEM DETECTION PHASE:

LOCATION AND PRESSURE(S) OF DEFLATED TIRE(S):

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
</table>
| Indicate Location of Tire(s) Deflated:  
Inflation Pressure | ( )LF ( X )LR ( )RR ( X )RF | 158.0 kPa (22.9 psi) | 158.0 kPa (22.9 psi) |

TELLTALE ILLUMINATION:

Driving in first direction:

Starting point: San Angelo Test Facility shop  
Direction: west

45 seconds (stopwatch time – non-cumulative)  
0.2 km (0.1 mi) distance

Driving above 50 km/hr was not required.

TELLTALE ILLUMINATES WITHIN 20 MINUTES: ( X )YES ( )NO (fail)

Does the vehicle have a telltale that identifies which tire(s) is (are) under-inflated?  
( )YES ( X )NO

After 5 minutes with the ignition locking system in the “Off” or “Lock” position, does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position?  
( X )YES ( )NO (fail)
DATA SHEET 3 (Sheet 13 of 16)
TPMS OPERATIONAL PERFORMANCE

SCENARIO C – Left Rear, Right Front Tire Deflation at UVW + VCW

Deactivate the ignition locking system and then re-start the vehicle engine. Does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position? ( X )YES (   )NO (fail)

TIRE INFLATION PRESSURES AND TEMPERATURES AFTER TELTTALE ILLUMINATION:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After vehicle cool down period:</td>
<td>226.3 kPa (32.8 psi)</td>
<td>151.6 kPa (22.0 psi)</td>
<td>225.5 kPa (32.7 psi)</td>
<td>152.8 kPa (22.2 psi)</td>
</tr>
<tr>
<td>Ambient Temperature: 23.7°C (74.7°F)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflation Pressure</td>
<td>26.4°C (79.5°F)</td>
<td>26.2°C (79.2°F)</td>
<td>25.6°C (78.1°F)</td>
<td>26.2°C (79.2°F)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>25.8°C (78.4°F)</td>
<td>25.6°C (78.1°F)</td>
<td>25.4°C (77.7°F)</td>
<td>25.8°C (78.4°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

After the cool down period of a minimum of one hour, restart the vehicle engine. Does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position? ( X )YES (   )NO (fail)

TELLTALE EXTINGUISHMENT:
RE-ADJUSTED TIRE INFLATION PRESSURES:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After cool down period:</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
</tr>
<tr>
<td>Re-adjusted Inflation Pressure:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Is it necessary to drive the vehicle to extinguish the telltale? ( X )YES (   )NO

Starting point: San Angelo Test Facility shop
Direction: west
1:35 minutes (stopwatch time – non-cumulative) 0.2 km (0.1 mi) distance

TEST RESULTS

TPMS Performance Test Results (PASS/FAIL) PASS
Left rear and right front tires were deflated at UVW + VCW.

REMARKS: None

RECORDED BY: Jack R. Stewart DATE: August 20, 2008
APPROVED BY: Kenneth H. Yates
TEST DATE: August 20, 2008 LAB: U.S. DOT San Angelo Test Facility

VEHICLE NHTSA NUMBER: C85603

Note: See Data Sheet 3 (Sheet 10 of 16) for Test Weight.

### TIRE INFLATION PRESSURES AND TIRE/SURFACE TEMPERATURES BEFORE CALIBRATION PHASE:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After loading vehicle to lightly loaded vehicle weight, positioning vehicle at selected test start point, and vehicle cool down period:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient Temperature: 25.0°C (77.0°F)</td>
<td>Vehicle cool down period: 64 minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inflation Pressure</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>27.2°C (81.0°F)</td>
<td>27.2°C (81.0°F)</td>
<td>26.8°C (80.2°F)</td>
<td>27.2°C (81.0°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td>26.6°C (79.9°F)</td>
<td>26.8°C (80.2°F)</td>
<td>26.6°C (79.9°F)</td>
<td>26.8°C (80.2°F)</td>
</tr>
</tbody>
</table>

### SYSTEM CALIBRATION/LEARNING PHASE:

<table>
<thead>
<tr>
<th>Time:</th>
<th>Start: 16:05:40 UTC</th>
<th>End: 16:30:22 UTC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trip Odometer Reading:</td>
<td>Start: 122.6 km (76.2 mi)</td>
<td>End: 155.1 km (96.4 mi)</td>
</tr>
<tr>
<td>Ambient Temperature:</td>
<td>Start: 24.8°C (76.6°F)</td>
<td>End: 25.7°C (78.3°F)</td>
</tr>
<tr>
<td>Roadway Temperature:</td>
<td>Start: 33.2°C (91.8°F)</td>
<td>End: 38.6°C (101.5°F)</td>
</tr>
</tbody>
</table>

Driving in first direction:
- Starting point: GAFB north gate
- Direction: see chart, page 57
- 10:10 minutes (stopwatch time) 16.1 km (10.0 mi) distance

Driving in opposite direction:
- Starting point: US 87 crossover overpass
- Direction: see chart, page 57
- 10:27 minutes (stopwatch time) 16.4 km (10.2 mi) distance

Max speed: 100.9 km/h (62.7 mph)

Total Driving Time: 20:35 minutes (VBox time)
TPMS OPERATIONAL PERFORMANCE
SCENARIO D – Left Front, Left Rear, Right Rear, and Right Front Tire Deflation at UVW +VCW

TIRE INFLATION PRESSURES AND TEMPERATURES AFTER CALIBRATION PHASE:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediately, after vehicle is stopped, engine off: Inflation Pressure</td>
<td>236.3 kPa (34.3 psi)</td>
<td>237.5 kPa (34.4 psi)</td>
<td>239.3 kPa (34.7 psi)</td>
<td>236.5 kPa (34.3 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>40.0°C (104.0°F)</td>
<td>37.0°C (98.6°F)</td>
<td>37.6°C (99.7°F)</td>
<td>39.2°C (102.6°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td>27.6°C (81.7°F)</td>
<td>27.8°C (82.0°F)</td>
<td>27.6°C (81.7°F)</td>
<td>27.6°C (81.7°F)</td>
</tr>
</tbody>
</table>

SYSTEM DETECTION PHASE:

LOCATION AND PRESSURE(S) OF DEFLATED TIRE(S):

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicate Location of Tire(s) Deflated:</td>
<td>( X )LF ( X )LR ( X )RR ( X )RF Inflation Pressure</td>
<td>158.1 kPa (22.9 psi)</td>
<td>158.0 kPa (22.9 psi)</td>
<td>158.0 kPa (22.9 psi)</td>
</tr>
</tbody>
</table>

TELLTALE ILLUMINATION:

Driving in first direction:

Starting point: San Angelo Test Facility shop
Direction: west

1:17 minutes (stopwatch time – non-cumulative) 0.2 km (0.1 mi) distance

Driving above 50 km/hr was not required.

TELLTALE ILLUMINATES WITHIN 20 MINUTES: ( X )YES ( )NO (fail)
DATA SHEET 3 (Sheet 16 of 16)
TPMS OPERATIONAL PERFORMANCE
SCENARIO D – Left Front, Left Rear, Right Rear, and Right Front
Tire Deflation at UVW +VCW

Deactivate the ignition locking system and then re-start the vehicle engine. Does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position?  ( X )YES    (   )NO (fail)

TIRE INFLATION PRESSURES AND TEMPERATURES AFTER TELLTALE ILLUMINATION:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After vehicle cool down period:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient Temperature:</td>
<td>28.1°C (82.6°F)</td>
<td>Vehicle cool down period: 62 minutes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inflation Pressure</td>
<td>151.9 kPa (22.0 psi)</td>
<td>151.3 kPa (21.9 psi)</td>
<td>150.6 kPa (21.8 psi)</td>
<td>152.4 kPa (22.1 psi)</td>
</tr>
<tr>
<td>Tire Sidewall Temp</td>
<td>30.8°C (87.4°F)</td>
<td>30.4°C (86.7°F)</td>
<td>30.2°C (86.4°F)</td>
<td>30.2°C (86.4°F)</td>
</tr>
<tr>
<td>San Angelo Test Facility Shop Floor Temp</td>
<td>28.2°C (82.8°F)</td>
<td>28.6°C (83.5°F)</td>
<td>28.2°C (82.8°F)</td>
<td>28.2°C (82.8°F)</td>
</tr>
</tbody>
</table>

After the cool down period of a minimum of one hour, restart the vehicle engine. Does the telltale re-illuminate and stay illuminated when the ignition locking system is activated to the “On” or “Run” position?  ( X )YES    (   )NO (fail)

TELLTALE EXTINGUISHMENT:
RE-ADJUSTED TIRE INFLATION PRESSURES:

<table>
<thead>
<tr>
<th>Execution Procedure</th>
<th>LF Tire</th>
<th>LR Tire</th>
<th>RR Tire</th>
<th>RF Tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>After cool down period:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Re-adjusted Inflation Pressure:</td>
<td>220.0 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.1 kPa (31.9 psi)</td>
<td>220.0 kPa (31.9 psi)</td>
</tr>
</tbody>
</table>

Is it necessary to drive the vehicle to extinguish the telltale?  ( X )YES    (   )NO

Starting point:  San Angelo Test Facility shop  Direction:  west  1:18 minutes (stopwatch time – non-cumulative)  0.5 km (0.1 mi) distance

TEST RESULTS

TPMS Performance Test Results (PASS/FAIL)  PASS

Left front, left rear, right rear, and right front tires were deflated at UVW +VCW.

REMARKS:  None

RECORDED BY:  Jack R. Stewart  DATE:  August 20, 2008
APPROVED BY:  Kenneth H. Yates
DATA SHEET 4 (Sheet 1 of 2)
Scenario E – Malfunction Detection Test at LLVW

TEST DATE: August 18, 2008 LAB: U.S. DOT San Angelo Test Facility

VEHICLE NHTSA NUMBER: C85603

Time: Start: 17:09:03 End: 17:31:30
Trip Odometer Reading: Start: 0.0 km (0.0 mi) End: 30.1 km (18.7 mi)
Ambient Temperature: Start: 27.2°C (81.0°F) End: 28.4°C (83.1°F)
Roadway Temperature: Start: 35.2°C (95.4°F) End: 36.4°C (97.5°F)
Fuel Level: Start: Full

Note: See Data Sheet 3 (Sheet 2 of 16) for Test Weight.

TPMS TYPE: ( X ) Direct ( ) Indirect ( ) Other Describe: ____________________________

TPMS MALFUNCTION TELLTALE: ( ) Dedicated stand-alone ( X ) Combination low tire pressure warning/malfunction telltale

METHOD OF MALFUNCTION SIMULATION:
Describe method of malfunction simulation: Spare without TPMS sensor was applied to right front at LLVW.

MALFUNCTION TELLTALE ILLUMINATION
(after ignition locking system is activated to “On” (“Run”) position):

Combination Malfunction Telltale

Driving in first direction:
Starting point: San Angelo Test Facility shop Direction: see chart , page 58

30.1 km (18.7 mi) distance

Max speed: 99.9 km/h (62.1 mph)
Total Driving Time: 18:09 minutes (VBox time)

COMBINATION MALFUNCTION TELLTALE ILLUMINATES (FLASHING AND ILLUMINATION SEQUENCE) WITHIN 20 MINUTES:
( X ) YES ( ) NO
After 5 minutes with the ignition locking system in the “Off” or “Lock” position, does the combination low tire pressure/malfunction telltale flash for a period of at least 60 seconds but no longer than 90 seconds, and then remain illuminated when the ignition locking system is activated to the “On” or “Run” position?  (X) YES  ( ) NO (fail)

- Time it takes before telltale starts flashing: 3.5 seconds
- Time telltale remains flashing: 77 seconds
- Time telltale remains illuminated: 60+ seconds
  (Verified for a minimum of 60 seconds)

Deactivate the ignition locking system and then re-start the vehicle engine. Does the telltale’s illumination sequence repeat when the ignition locking system is activated and the engine running?  (X) YES  ( ) NO (fail)

**Extinguishment Phase:**

Restore the TPMS to normal operation. Is it necessary to drive the vehicle to extinguish the telltale?  (X) YES  ( ) NO

- Starting point: San Angelo Test Facility shop
- Direction: west, south
- 1:15 minutes (stopwatch time – non-cumulative)
- 0.2 km (0.1 mi) distance

**COMBINATION MALFUNCTION TELLTALE EXTINGUISHED:**  (X) YES  ( ) NO (FAIL)

**TPMS MALFUNCTION PERFORMANCE TEST RESULTS (PASS/FAIL)**  PASS

Spare without TPMS sensor was applied to right front at LLVW.

**REMARKS:** None

**RECORDED BY:** Jack R. Stewart  **DATE:** August 18, 2008

**APPROVED BY:** Kenneth H. Yates
DATA SHEET 4 (Sheet 1 of 2)
Scenario F – Malfunction Detection Test at LLVW

TEST DATE: August 21, 2008 LAB: U.S. DOT San Angelo Test Facility

VEHICLE NHTSA NUMBER: C85603

Time: Start: 17:09:03 End: 17:31:30
Trip Odometer Reading: Start: 0.0 km (0.0 mi) End: 0.0 km (0.0 mi)
Fuel Level: Start: Full

Note: See Data Sheet 3 (Sheet 2 of 16) for Test Weight.

TPMS TYPE: ( X ) Direct ( ) Indirect ( ) Other Describe: ________________________________

TPMS MALFUNCTION TELLTALE: ( ) Dedicated stand-alone ( X ) Combination low tire pressure warning/malfunction telltale

METHOD OF MALFUNCTION SIMULATION:
Describe method of malfunction simulation: TPMS ECU was disconnected by removing wiring connection on steering column.

MALFUNCTION TELLTALE ILLUMINATION
(after ignition locking system is activated to “On” (“Run”) position):

Combination Malfunction Telltale

Telltale illuminated immediately. Driving the vehicle was not required.

COMBINATION MALFUNCTION TELLTALE ILLUMINATES (FLASHING AND ILLUMINATION SEQUENCE) WITHIN 20 MINUTES: ( X )YES ( )NO
After 5 minutes with the ignition locking system in the “Off” or “Lock” position, does the combination low tire pressure/malfunction telltale flash for a period of at least 60 seconds but no longer than 90 seconds, and then remain illuminated when the ignition locking system is activated to the “On” or “Run” position?  

| Time it takes before telltale starts flashing | 5 seconds |
| Time telltale remains flashing | 75 seconds |
| Time telltale remains illuminated | 60+ seconds |

(Verified for a minimum of 60 seconds)

Deactivate the ignition locking system and then re-start the vehicle engine. Does the telltale’s illumination sequence repeat when the ignition locking system is activated and the engine running?  

| Extinguishment Phase: |

| Does the telltale’s illumination sequence repeat when the ignition locking system is activated and the engine running? | ( X ) YES ( ) NO (fail) |

Restore the TPMS to normal operation. Is it necessary to drive the vehicle to extinguish the telltale?  

| Extinguishment Phase: |

| Does it necessary to drive the vehicle to extinguish the telltale? | ( ) YES ( X ) NO |

| COMBINATION MALFUNCTION TELLTALE EXTINGUISHED: |

| ( X ) YES ( ) NO (FAIL) |

TPMS MALFUNCTION PERFORMANCE TEST RESULTS (PASS/FAIL)  

PASS  

TPMS ECU was disconnected by removing wiring connection on steering column.

REMARKS: None

RECORDED BY: Jack R. Stewart  
DATE: August 21, 2008

APPROVED BY: Kenneth H. Yates
The following statement, in the English language, is provided verbatim in the Owner’s Manual. (X) YES ( ) NO

“Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle’s handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver’s responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.”
As specified, the following sections, in the English language, are required verbatim in paragraph form in the Owner’s Manual:

The following statement is required for all vehicles certified to the standard starting on September 1, 2007 and for vehicles voluntarily equipped with a compliant TPMS MIL before that time.
"Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly."

The above statement in the English language is provided verbatim in owner’s manual: (X)YES ( )NO

For vehicles with a dedicated MIL telltale, add the following statement:
"The TPMS malfunction indicator is provided by a separate telltale, which displays the symbol "TPMS" when illuminated."

The above statement in the English language is provided verbatim in owner’s manual: ( )YES ( )NO (X)N/A

For vehicles with a combined low tire pressure/MIL telltale, add the following statement:
"The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists."

The above statement in the English language is provided verbatim in owner’s manual: (X)YES ( )NO ( )N/A

The following statement is required for all vehicles certified to the standard starting on September 1, 2007 and for vehicles voluntarily equipped with a compliant TPMS MIL before that time.
"When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly."

The above statement in the English language is provided verbatim in owner’s manual: (X)YES ( )NO

DATA INDICATES COMPLIANCE: PASS/FAIL PASS/FAIL: PASS
Does the Owner’s Manual provide an image of the Low Tire Pressure Warning Telltale symbol (and an image of the TPMS Malfunction Telltale warning (“TPMS”), if a dedicated telltale is utilized for this function)?

( X )YES    (   )NO

Does the Owner’s Manual include the following (allowable) information?

☑ Significance of the low tire pressure warning telltale illuminating
☑ A description of corrective action to be undertaken
☑ Whether the tire pressure monitoring system functions with the vehicle's spare tire (if provided)
☐ How to use a reset button, if one is provided
☑ The time for the TPMS telltale(s) to extinguish once the low tire pressure condition or the malfunction is corrected

REMARKS: None

APPROVED BY: Kenneth H. Yates
## SECTION 4

### TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

<table>
<thead>
<tr>
<th>EQUIPMENT</th>
<th>DESCRIPTION</th>
<th>MODEL/ SERIAL NO</th>
<th>CAL. DATE</th>
<th>NEXT CAL. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOPWATCH</td>
<td>WESTCLOX QUARTZ STOPWATCH</td>
<td>NONE</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>AIR PRESSURE GAUGE</td>
<td>ASHCROFT GENERAL PURPOSE DIGITAL GAUGE</td>
<td>MODEL #D1005PS 02L 100 PSI  SERIAL #20017398-01</td>
<td>12/11/2007</td>
<td>12/11/2008</td>
</tr>
<tr>
<td>FLOOR SCALES (VEHICLE)</td>
<td>INTERCOMP SW DELUXE SCALES</td>
<td>PART #100156 SERIAL #27032382</td>
<td>8/5/2008</td>
<td>8/5/2009</td>
</tr>
<tr>
<td>PLATFORM SCALE (BALLAST)</td>
<td>HOWE RICHARDSON</td>
<td>MODEL #6401 SERIAL #0181-5509-26</td>
<td>8/5/2008</td>
<td>8/5/2009</td>
</tr>
</tbody>
</table>
SECTION 5
PHOTOGRAPHS
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO.138

FIGURE 5.1
¼ FRONTAL VIEW FROM LEFT SIDE OF VEHICLE
37
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO.138

FIGURE 5.2
VEHICLE CERTIFICATION LABEL
**TIRE AND LOADING INFORMATION**

- **SEATING CAPACITY**: TOTAL 5, FRONT 2, REAR 3
- The combined weight of occupants and cargo should never exceed 375 kg or 827 lbs

<table>
<thead>
<tr>
<th>TIRE</th>
<th>SIZE</th>
<th>COLD TIRE PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT</td>
<td>P205/60R16</td>
<td>220KPA, 32PSI</td>
</tr>
<tr>
<td>REAR</td>
<td>P205/60R16</td>
<td>220KPA, 32PSI</td>
</tr>
<tr>
<td>SPARE</td>
<td>T125/70D16</td>
<td>420KPA, 60PSI</td>
</tr>
</tbody>
</table>

SEE OWNER’S MANUAL FOR ADDITIONAL INFORMATION

PART NO. 7430A504 S

2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.3
VEHICLE PLACARD
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.4
TIRE SHOWING BRAND
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.5
TIRE SHOWING MODEL
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.6
TIRE SHOWING SIZE AND LOAD INDEX / SPEED RATING
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.7
TIRE SHOWING DOT SERIAL NUMBER
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.8
TIRE SHOWING MAX LOAD RATING
AND MAX COLD INFLATION PRESSURE
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.10
RIM SHOWING VALVE STEM
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.11
DISPLAY SHOWING COMBINATION LOW TIRE PRESSURE / MALFUNCTION TELLTALE AND MESSAGE CENTER LOW PRESSURE WARNING
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.12
DISPLAY SHOWING COMBINATION LOW TIRE PRESSURE / MALFUNCTION TELTALTE AND MESSAGE CENTER TPMS MALFUNCTION WARNING
FIGURE 5.13
TEST INSTRUMENTATION ON VEHICLE

2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO 138
FIGURE 5.14
VEHICLE REAR SEAT BALLAST
FOR UVW + VCW LOAD
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.15
REAR OF VEHICLE BALLAST FOR UVW + VCW
2008 MITSUBISHI LANCER
NHTSA NO. C85603
FMVSS NO. 138

FIGURE 5.16
VEHICLE ON WEIGHT SCALES
2008 MITSUBISHI LANCER  
NHTSA NO. C85603  
FMVSS NO. 138  

FIGURE 5.17  
SPARE INSTALLED ON RIGHT FRONT  
FOR MALFUNCTION DETECTION TEST
SECTION 6
TEST PLOTS
Scenario A: Right Rear Tire at LLVV
Test Date: 8/15/08
Data File Time: 24:18 minutes
Cumulative Driving Time: 20:33 minutes
Start Point: GAFB North Gate

Calibration Phase:

RR Detection Phase: Telltale illumination in 2:12 minutes. Driving above 50 km/h (31 mph) was not required.
Scenario B: Left Front, Left Rear, Right Front Tires at LLVW
Test Date: 8/18/08
Data File Time: 24:26 minutes
Cumulative Driving Time: 20:34 minutes
Start Point: GAFB North Gate

Calibration Phase:

2008 Mitsubishi Lancer (C85603) LF, LR, RF Calibration LLVW

LF, LR, RF Detection Phase: illumination in 56 seconds. Driving above 50 km/h (31 mph) was not required.
Scenario C: Left Rear, Right Front Tire at UVW + VCW
Test Date: 8/20/08
Data File Time: 24:51 minutes
Cumulative Driving Time: 20:39 minutes
Start Point: GAFB North Gate

Calibration Phase:

2008 Mitsubishi Lancer (C85603) LR, RF Calibration UVW+VCW

LR, RF Detection Phase: Telltale illumination in 45 seconds. Driving above 50 km/h (31 mph) was not required.
Scenario D: Left Front, Left Rear, Right Rear, Right Front Tires at UVW + VCW
Test Date: 8/20/08
Data File Time: 24:18 minutes
Cumulative Driving Time: 20:35 minutes
Start Point: GAFB North Gate

Calibration Phase:

2008 Mitsubishi Lancer (C85603) LF, LR, RR, RF Calibration UVW+VCW

Log Rate := 100.00 Hz

LF, LR, RR, RF Detection Phase: Telltale illumination in 1:17 minutes. Driving above 50 km/h (31 mph) was not required.
Scenario E Malfunction Illumination: Spare without TPMS sensor was applied to right front at LLVW.
Test Date: 8/18/08
Data File Time: 22:30 minutes
Cumulative Driving Time: 18:09 minutes
Start Point: GAFB North Gate