SAFETY COMPLIANCE TESTING FOR
FMVSS NO. 118
POWER-OPERATED WINDOW, PARTITION
AND ROOF PANEL SYSTEMS

NISSAN MOTOR CO., LTD.
2010 INFINITI G37, PASSENGER CAR
NHTSA NO. CA5204

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

May 11, 2010

FINAL REPORT

PREPARED FOR
U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
1200 NEW JERSEY AVE., SE
WASHINGTON, D.C. 20590
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Prepared By: ______________________________
Approved By: ______________________________
Approval Date: 05/11/10

FINAL REPORT ACCEPTANCE BY OYSC:
Accepted By: ______________________________
Acceptance Date: 05/11/10
16. Abstract
Compliance tests were conducted on the subject 2010 Infiniti G37 4-door Passenger Car in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-118-06 for the determination of FMVSS 118 compliance.

Test failures identified were as follows:
None

18. Distribution Statement
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<td></td>
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<td></td>
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<td>5.14 Sphere Test on Left Rear Switch</td>
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<tr>
<td>5.15 Sphere Test on Right Rear Switch</td>
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<td></td>
</tr>
<tr>
<td>5.20 Force Test Instrument Set-Up on Roof Panel</td>
<td></td>
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<td>40</td>
</tr>
</tbody>
</table>
SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF TEST

A model year 2010 Infiniti G37 Passenger Car was subjected to Federal Motor Vehicle Safety Standard (FMVSS) No. 118 testing to determine if the vehicle was in compliance with the requirements of the standard. FMVSS 118 specifies requirements for power-operated window, partition, and roof panel systems to minimize the likelihood of death or injury from their accidental operation.

1.1 The test vehicle was a 2010 Infiniti G37 Passenger Car. The vehicle was identified as follows:

A. Vehicle Identification Number: JN1CV6AR7AM454290

B. NHTSA No.: CA5204

C. Manufacturer: NISSAN MOTOR CO., LTD.

D. Manufacture Date: 12/09

E. Color: White

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 118 testing on May 5, 2010.
SECTION 2
TEST PROCEDURE AND SUMMARY OF RESULTS

2.0 TEST PROCEDURE

All tests were conducted in accordance with NHTSA, Office of Vehicle Safety Compliance (OVSC) Laboratory Procedure TP-118-06 dated 12 April 2006 and General Testing Laboratories, Inc. (GTL) Test Procedure, TP-118-03A, “Power Operated Window, Partition and Roof Panel Systems”.

FMVSS 118 Compliance Testing was performed in the following sequence:

A. Test Vehicle Identification/Documentation  
B. Power Window, partition and roof panel identification/documentation  
C. Interior, exterior and remote control switch identification/documentation  
D. Pre-test operation of all power windows, partitions and roof panels  
E. Photograph vehicle and interior, exterior and remote control devices  
F. Perform Interior Locking System Off Test  
G. Perform Interior Locking System with Key Removed Test  
H. Perform Exterior Locking System Test  
I. Perform Remote Actuation Device Test  
J. Perform Occupant Compartment Actuation Device Test (Sphere Test/Pull up or Pull Out Test)  
K. Perform Automatic Reversal System Test

2.1 SUMMARY OF RESULTS

The power window operational test resulted in no anomalies being noted. Test data indicate the FMVSS 118 requirements appear to have been satisfied. All test data resulting from the tests were recorded on test data sheets in Section 3.
SECTION 3
TEST DATA

3.0 TEST RESULTS

The following data sheets document the results of FMVSS 118 testing on the 2010 Infiniti G37.
### COMPLIANCE DATA SUMMARY SHEET

**VEHICLE MAKE/MODEL/BODY STYLE:** 2010 INFINITI G37  
**VEHICLE NHTSA NO:** CA5204  
**VIN:** JN1CV6AR7AM454290  
**VEHICLE TYPE:** PASSENGER CAR  
**DATE OF MANUFACTURE:** 12/09  
**LABORATORY:** GENERAL TESTING LABORATORIES  
**TEST DATE:** 05/05/10

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>PASS</th>
<th>FAIL</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4 Interior Locking system in Off Position(s)</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>S4 Interior Locking System with Key Removed</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>S4 Exterior Locking System</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>S4 Remote Actuation Device</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>S6 Occupant Compartment Actuation Devices (Sphere Test/Pull Up or Pull Out Test)</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>S5 Automatic Reversal System</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**REMARKS:** Remote actuation device will only open the windows. The remote will not close the windows.

**RECORDED BY:** G. Farrand  
**DATE:** 05/05/10

**APPROVED BY:** D. Messick
## WPRP PRE-OPERATIONAL CHECK

**VEHICLE MAKE/MODEL/BODY STYLE:** 2010 INFINITI G37  
**VEHICLE NHTSA NO:** CA5204  
**VIN:** JN1CV6AR7AM454290  
**VEHICLE TYPE:** PASSENGER CAR  
**DATE OF MANUFACTURE:** 12/09  
**LABORATORY:** GENERAL TESTING LABORATORIES  
**TEST DATE:** 05/05/10

Identify power-operated WPRP and WPRP actuation devices

<table>
<thead>
<tr>
<th></th>
<th>LEFT FRONT</th>
<th>LEFT REAR</th>
<th>RIGHT FRONT</th>
<th>RIGHT REAR</th>
<th>TAIL GATE</th>
<th>PARTITION</th>
<th>ROOF PANEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power WPRP Installed</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Individual Interior Actuation Devices</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master Control Panel Actuation Devices</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WPRP Operated by Exterior Locking System</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WPRP Operated by Remote Control</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WPRP with Auto-Reverse Capability</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>WPRP with Express-Up Capability</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Master Control Panel Location: Driver’s Door Panel  
Exterior Locking System Location: Driver’s Door Handle  
Remote Control Type: ( ) Line of Sight (X) Non-line of Sight ( ) Both

WPRP Actuation Device Design (Toggle, Rocker, Push/Pull (Lever) or describe other):
- Master Control Panel: Push/Pull
- Individual Window: Push/Pull
- Roof Panel: Recessed Rocker Switch
- Vents:  

Interior Locking System Key Positions (clockwise): Push Button Start – Off/Lock, Accessory, On, Start

All WPRP open/close cycles are satisfactory with key in “ON” position:  
(X) YES ( ) NO If NO, compliance test shall not proceed

All WPRP open/close cycles are satisfactory with key in “ACCESSORY” position:  
(X) YES ( ) Not Applicable –No power to WPRP’s

REMARKS: All WPRP’s operate in accessory position until a front door is opened or 45 seconds, whichever happens first.

RECORDED BY: G. Farrand  
DATE: 05/05/10  
APPROVED BY: D. Messick
**DATA SHEET 1
INTERIOR LOCKING SYSTEM TEST**

**VEHICLE MAKE/MODEL/BODY STYLE:** 2010 INFINITI G37  
**VEHICLE NHTSA NO:** CA5204  |  **VIN:** JN1CV6AR7AM454290  
**VEHICLE TYPE:** PASSENGER CAR  |  **DATE OF MANUFACTURE:** 12/09  
**LABORATORY:** GENERAL TESTING LABORATORIES  |  **TEST DATE:** 05/05/10

Key lock position at start of test execution: (X) ON ( ) ACCESSORY, Then to:  
Key lock off position during test execution: (X) LOCK (X) OFF ( ) ACCESSORY

<table>
<thead>
<tr>
<th>ACTUATION DEVICES</th>
<th>DOORS CLOSED</th>
<th>LEFT DOOR OPEN</th>
<th>RIGHT DOOR OPEN</th>
<th>PASS/FAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>INOP.</td>
<td>OPER.</td>
<td>INOP.</td>
<td>OPER.</td>
</tr>
<tr>
<td>MASTER CONTROL PANEL ACTUATION DEVICES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Left Front (LF)</td>
<td>X</td>
<td>X</td>
<td>x</td>
<td>P</td>
</tr>
<tr>
<td>Right Front (RF)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Left Rear (LR)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Right Rear (RR)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Vent Window(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tail Gate (TG)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition (P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roof Panel (RP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**INDIVIDUAL ACTUATION DEVICES**

<table>
<thead>
<tr>
<th>ACTUATION DEVICES</th>
<th>DOORS CLOSED</th>
<th>LEFT DOOR OPEN</th>
<th>RIGHT DOOR OPEN</th>
<th>PASS/FAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>INOP.</td>
<td>OPER.</td>
<td>INOP.</td>
<td>OPER.</td>
</tr>
<tr>
<td>Left Front (LF)</td>
<td>X</td>
<td>X</td>
<td>x</td>
<td>P</td>
</tr>
<tr>
<td>Right Front (RF)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Left Rear (LR)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Right Rear (RR)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Vent Window(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tail Gate Window</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Window</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roof Panel Window</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
</tbody>
</table>

**REMARKS:**

**RECORDED BY:**  G. Farrand  |  **DATE:** 05/05/10  
**APPROVED BY:**  D. Messick
DATA SHEET 2
INTERIOR LOCKING SYSTEM WITH KEY REMOVED TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2010 INFINITI G37
VEHICLE NHTSA NO: CA5204 VIN: JN1CV6AR7AM454290
VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 12/09
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 05/05/10

Key lock position at start of test execution: (X) ON   ( ) ACCESSORY

<table>
<thead>
<tr>
<th>ACTUATION DEVICES</th>
<th>DOORS CLOSED</th>
<th>LEFT DOOR OPEN</th>
<th>RIGHT DOOR OPEN</th>
<th>PASS/FAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>INOP. OPER.</td>
<td>INOP. OPER.</td>
<td>INOP. OPER.</td>
<td></td>
</tr>
<tr>
<td>MASTER CONTROL PANEL ACTUATION DEVICES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Left Front (LF)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Right Front (RF)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Left Rear (LR)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Right Rear (RR)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Tail Gate (TG)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vent Windows(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition (P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roof Panel (RP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INDIVIDUAL ACTUATION DEVICES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Left Front (LF)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Right Front (RF)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Left Rear (LR)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Right Rear (RR)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
<tr>
<td>Vent Window(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tail Gate Window</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Window</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roof Panel Window</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>P</td>
</tr>
</tbody>
</table>

REMARKS: Vehicle has push button “keyless go” system and once the key code is loaded into the system it is not removed until a door is opened and the key is moved out of range of the vehicle.

RECORDED BY: G. Farrand DATE: 05/05/10
APPROVED BY: D. Messick
DATA SHEET 3
EXTERIOR LOCKING SYSTEM TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2010 INFINITI G37
VEHICLE NHTSA NO: CA5204 VIN: JN1CV6AR7AM454290
VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 12/09
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 05/05/10

Is vehicle equipped with an exterior locking system that can close any of the power windows, partitions, or roof panels? (X) YES ( ) NO

Location of exterior locking system: Driver Door Handle

Describe how the exterior locking system is activated: The system is activated by inserting the metal key into key slot and turning it counter clockwise twice within 60 seconds and holding it. Windows will close until releases.

Identify the windows, partitions or roof panels that can be closed by the exterior system. Also, in each case, identify whether continuous activation of the locking system is required.

<table>
<thead>
<tr>
<th>WINDOW, PARTITION AND ROOF PANEL IDENTIFICATION</th>
<th>EXTERIOR LOCKING SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OPERABLE</td>
</tr>
<tr>
<td>LEFT FRONT (LF)</td>
<td>YES</td>
</tr>
<tr>
<td>RIGHT FRONT (RF)</td>
<td>YES</td>
</tr>
<tr>
<td>LEFT REAR (LR)</td>
<td>YES</td>
</tr>
<tr>
<td>RIGHT REAR (RR)</td>
<td>YES</td>
</tr>
<tr>
<td>VENT WINDOW(S)</td>
<td>NO</td>
</tr>
<tr>
<td>PARTITION(P)</td>
<td></td>
</tr>
<tr>
<td>ROOF PANEL (RP)</td>
<td>NO</td>
</tr>
<tr>
<td>TAIL GATE (TG)</td>
<td></td>
</tr>
</tbody>
</table>

*NOTE: Continuous activation of the locking system is required for each WPRP to pass the exterior locking system safety standard requirement.

REMARKS:

RECORDED BY: G. Farrand DATE: 05/05/10
APPROVED BY: D. Messick
DATA SHEET 4
REMOTE ACTUATION DEVICE

VEHICLE MAKE/MODEL/BODY STYLE: 2010 INFINITI G37
VEHICLE NHTSA NO: CA5204 VIN: JN1CV6AR7AM454290
VEHICLE TYPE: PASSENGER CAR DATE OF MANUFACTURE: 12/09
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 05/05/10

Type of remote actuation device installed on vehicle (check one):
(X) Non Line-Of-Site  ( ) Line-of-Site

Measured range of Operation:
Record the maximum operating distance of the remote actuation device in the boxes below. The range of operation shall not exceed six meters for a Non Line-of-Site Device or eleven meters for a Line-of-Site Device in any measured direction and continuous activation of the remote actuation device is required until all operable windows, partitions, or roof panels are completely closed.

Pass/Fail Pass

REMARKS: Remote will only activate opening of windows. Remote will not close windows.

RECORDED BY: G. Farrand DATE: 05/05/10
APPROVED BY: D. Messick
DATA SHEET 5
OCCUPANT COMPARTMENT ACTUATION DEVICE TEST
SPHERE TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2010 INFINITI G37
VEHICLE NHTSA NO: CA5204
VIN: JN1CV6AR7AM454290
VEHICLE TYPE: PASSENGER CAR
DATE OF MANUFACTURE: 12/09
LABORATORY: GENERAL TESTING LABORATORIES
TEST DATE: 05/05/10

<table>
<thead>
<tr>
<th>ACTUATION DEVICES</th>
<th>APPLICABLE (YES/NO*)</th>
<th>SPHERE ACTIVATED ACTUATION DEVICE Closes WPRP (YES/NO)</th>
<th>TEST RESULT PASS/FAIL</th>
<th>COMPLIANCE REQUIRED (Y/N**)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTER CONTROL PANEL ACTUATION DEVICES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Left Front (LF)</td>
<td>Yes</td>
<td>No</td>
<td>Pass</td>
<td>Yes</td>
</tr>
<tr>
<td>Right Front (RF)</td>
<td>Yes</td>
<td>No</td>
<td>Pass</td>
<td>Yes</td>
</tr>
<tr>
<td>Left Rear (LR)</td>
<td>Yes</td>
<td>No</td>
<td>Pass</td>
<td>Yes</td>
</tr>
<tr>
<td>Right Rear (RR)</td>
<td>Yes</td>
<td>No</td>
<td>Pass</td>
<td>Yes</td>
</tr>
<tr>
<td>Tail Gate (TG)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vent Window(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition (P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roof Panel (RP)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| INDIVIDUAL ACTUATION DEVICES | | | | |
| Left Front (LF) | Yes | No | Pass | Yes |
| Right Front (RF) | Yes | No | Pass | Yes |
| Left Rear (LR) | Yes | No | Pass | Yes |
| Right Rear (RR) | Yes | No | Pass | Yes |
| Vent Window(s) | | | | |
| Tail Gate(TG) | | | | |
| Partition(P) | | | | |
| Roof Panel (RP) | Yes | No | Pass | Yes |

*This requirement does not apply to actuation devices that are mounted in a vehicle’s roof, headliner, or overhead console and that can close a window, partition, or roof panel only by continuous rather than momentary switch actuation or actuation devices that comply with the reversing requirement of FMVSS 118, S5.

** Requirement is effective 1 October 2008. Early compliance is voluntary and test results are used for information only.

RECORDED BY: G. Farrand DATE: 05/05/10
APPROVED BY: D. Messick
**Requirement is effective 1 October 2008. Early compliance is voluntary and test results are used for information only.**
**DATA SHEET 7**  
**WPRP PHYSICAL CONTACT REVERSAL CAPABILITY**

**VEHICLE MAKE/MODEL/BODY STYLE:** 2010 INFINITI G37  
**VEHICLE NHTSA NO:** CA5204  
**VIN:** JN1CV6AR7AM454290  
**VEHICLE TYPE:** PASSENGER CAR  
**DATE OF MANUFACTURE:** 12/09  
**LABORATORY:** GENERAL TESTING LABORATORIES  
**TEST DATE:** 05/05/10

WPRP's equipped with reversal capability: **Yes**  
WPRP's that must meet reversal requirement: **No**

Locking System Position: **On**

<table>
<thead>
<tr>
<th>GTL Test #</th>
<th>Window, Partition, Roof Panel</th>
<th>Test Rod Placement in Window, Partition or Roof Panel</th>
<th>Test Rod Size (mm)</th>
<th>Window, Partition or Roof Panel Opening Before/After Closing (mm)</th>
<th>Maximum Force Measured on Test Rod (Newtons)</th>
<th>Window, Partition, or Roof Panel Reversing Distance (mm)</th>
<th>Pass/Fail*</th>
</tr>
</thead>
<tbody>
<tr>
<td>6586</td>
<td>L.F. Window</td>
<td>Top</td>
<td>6 mm</td>
<td>170/126</td>
<td>163</td>
<td>126</td>
<td>N/A*</td>
</tr>
<tr>
<td>6587</td>
<td>L.R. Window</td>
<td>Top</td>
<td>6 mm</td>
<td>30/134</td>
<td>181</td>
<td>134</td>
<td>N/A*</td>
</tr>
<tr>
<td>6588</td>
<td>R.F. Window</td>
<td>Top</td>
<td>6 mm</td>
<td>124/126</td>
<td>160</td>
<td>126</td>
<td>N/A*</td>
</tr>
<tr>
<td>6589</td>
<td>R.R Window</td>
<td>Top</td>
<td>6 mm</td>
<td>82/133</td>
<td>164</td>
<td>133</td>
<td>N/A*</td>
</tr>
<tr>
<td>6590</td>
<td>Roof Panel</td>
<td>Front Center</td>
<td>6 mm</td>
<td>70/135</td>
<td>99</td>
<td>135</td>
<td>N/A*</td>
</tr>
</tbody>
</table>

*WPRP must reverse direction before contacting or exerting a squeezing force of 100 Newtons. Upon such reversal, the WPRP must open to one of the following positions.

A. A position that is at least as open as the position at the time closing was initiated

B. A position that is not less than 125 mm more open than the position at the time the window reversed direction, or

C. A position that permits a semi-rigid cylindrical rod that is 200 mm in diameter to be placed through the opening at the same contact point(s) used in 12.5.

REMARKS: *This vehicle does not need to meet the closing force requirements if it meets the operating requirements of S4.*

RECORDED BY: G. Farrand  
APPROVED BY: D. Messick
## SECTION 4
### TEST EQUIPMENT LIST

**VEHICLE MAKE/MODEL/BODY STYLE:** 2010 INFINITI G37  
**VEHICLE NHTSA NO:** CA5204  
**VIN:** JN1CV6AR7AM454290  
**VEHICLE TYPE:** PASSENGER CAR  
**DATE OF MANUFACTURE:** 12/09  
**LABORATORY:** GENERAL TESTING LABORATORIES  
**TEST DATE:** 05/05/10

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MFR</th>
<th>MODEL</th>
<th>S/N</th>
<th>CAL. PERIOD</th>
<th>DATE OF LAST CALIB.</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLR DIGITAL CAMERA</td>
<td>NIKON</td>
<td>D50</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>PINCH FORCE SENSOR</td>
<td>SENSOR DEVELOPMENTS, INC.</td>
<td>10293</td>
<td>179104</td>
<td>12 MO.</td>
<td>04/10</td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS:**

**RECORDED BY:** G. FARRAND  
**DATE:** 05/05/10  
**APPROVED BY:** D. MESSICK
FIGURE 5.1
¾ FRONTAL VIEW FROM RIGHT SIDE OF VEHICLE
2010 INFINITI G37
NHTSA NO. CA5204
FMVSS NO. 118

FIGURE 5.2
¼ REAR VIEW FROM LEFT SIDE OF VEHICLE
MANUFACTURED BY NISSAN MOTOR CO., LTD.

DATE: 12/09
GVWR/PNBV: 4846 LBS.
GAWR/PNBE FR: 2423 LBS. RR: 2482 LBS.

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY, BUMPER, AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

VIN: JN1CV6AR7AM454290 PASSENGER CAR
COLOR TRIM TRANS AXLE ENGINE
QAA K RE7R01A RC33 VQ37(VHR) 3696CC
### Tire and Loading Information

<table>
<thead>
<tr>
<th>Seating Capacity</th>
<th>Total</th>
<th>Front Avant</th>
<th>Rear Avant</th>
<th>Size Dimensions</th>
<th>Cold Tire Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Número de Places</td>
<td>Total</td>
<td>Front Avant</td>
<td>Rear Avant</td>
<td>T145/80D17 107M</td>
<td>420kPa, 60Psi</td>
</tr>
</tbody>
</table>

The combined weight of occupants and cargo should never exceed 408 kg or 900 lbs. The poids total des occupants et du chargement ne doit jamais dépasser 408 kg ou 900 lb.
FIGURE 5.5
MASTER CONTROL SWITCH
FIGURE 5.6
CLOSE-UP VIEW OF RIGHT FRONT POWER WINDOW SWITCH
FIGURE 5.8
CLOSE-UP VIEW OF RIGHT REAR POWER WINDOW SWITCH
FIGURE 5.10
KEY FOB/REMOTE CONTROL
FIGURE 5.12
SPHERE TEST ON MASTER SWITCH
FIGURE 5.14
SPHERE TEST ON LEFT REAR SWITCH
FIGURE 5.15
SPHERE TEST ON RIGHT REAR SWITCH
FIGURE 5.16
SPHERE TEST ON ROOF PANEL
FIGURE 5.17
INSTRUMENTATION TEST SET-UP
FIGURE 5.18
FORCE TEST INSTRUMENT SET-UP ON FRONT WINDOW
FIGURE 5.19
FORCE TEST INSTRUMENT SET-UP ON REAR WINDOW
FIGURE 5.20
FORCE TEST INSTRUMENT SET-UP ON ROOF PANEL
SECTION 6
OWNER’S MANUAL INFORMATION
POWER WINDOWS

WARNING

- Make sure that all passengers have their hands, etc. inside the vehicle while it is in motion and before closing the windows. Use the window lock switch to prevent unexpected use of the power windows.
- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls and become trapped in the window. Unattended children could become involved in serious accidents.

The power windows operate when the ignition switch is in the ON position or for about 45 seconds after the ignition switch is pushed to the OFF position. If the driver's or front passenger's door is opened during this period of about 45 seconds, power to the windows is canceled.

**Instruments and controls**

**Main power window switch (driver's side)**
1. Driver side window
2. Front passenger side window
3. Rear left passenger side window (Sedan only)
4. Rear right passenger side window (Sedan only)
5. Window lock button

**Passenger side power window switch**

To open or close the window, push down ① or pull up ⑥ the switch and hold it. The main switch (driver side switch) will open or close all the windows.

**Locking passengers' windows**

When the lock button ⑦ is pushed in, only the driver side window can be opened or closed. Push it in again to cancel.
Automatic operation for front door windows or all door windows

To fully open or close the window, momentarily push down or pull up the switch and release it. If held too long, the window will automatically stop or close all the way. To stop the window, just push or lift the switch in the opposite direction.

A light push or pull on the switch will cause the window to open or close until the switch is released.

If the windows do not close automatically:

- If the power window automatic function [closing only] does not operate properly, perform the following procedure to initialize the power window system:
  1. Push the ignition switch to the ON position.
  2. Close the door.
  3. Open the window completely by operating the power window switch.
  4. Pull the power window switch and hold it to close the window, and then hold the switch down for 3 seconds after the window is closed completely.
  5. Release the power window switch. Open the window by the automatic function to confirm the initialization is complete.
  6. Perform steps 3 through 5 above for other windows.

If the power window automatic function does not operate properly after performing the procedure above, have your vehicle checked by an INFINITI retailer.

Auto reverse function

**WARNING**

There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the window.

If the control unit detects something caught in the window as it is closing, the window will be immediately stopped.

The auto reverse function can be activated when the window is closed by automatic operation when the ignition switch is in the ON position for 30 seconds after the ignition switch is pushed to the OFF position.

Depending on the environment or driving conditions, the auto reverse function may be activated if an impact or load similar to something being caught in the window occurs.

**WARNING**

- In an accident you could be thrown from the vehicle through an open window. Always use seat belts and child restraints.
- Do not allow anyone to stand up or exit any portion of their body out of the moving window while the vehicle is in motion while the window is closing.
- Do not place any heavy object on the roof or surrounding area.

CAUTION

- Remove water droplets, snow, ice or sand from the window before opening.
- Do not allow anyone to stand or exit any portion of their body out of the moving window while the vehicle is in motion while the window is closing.

AUTOMATIC MOONROOF

The maximum only operates when the ignition switch is in the ON position.

The automatic movement is abandoned by pressing the switch. To stop the moonroof, push the down switch to the OFF position if the driver's door or the passenger's door is opened during this period of about 10 seconds, power to the moonroof is switched off.

**Semihide**

- The sunshade will open automatically when the moonroof is opened manually. It must be closed manually.

**Tilling the moonroof**

To tilt up, first close the moonroof, then push the up slide. To tilt down, first close the moonroof, then push the down slide to the side.

**Siding the moonroof**

To fully open or close the moonroof, push the close or open button to the side of the moonroof switch and release it. It need not be held. The moonroof will automatically open or close all the way. To stop the moonroof, push the switch once more while it is opening or closing.

**Auto reverse function**

**WARNING**

There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the moonroof.

If the control unit detects something caught in the moonroof when it is closing, the moonroof will be immediately stopped.

The auto reverse function can be activated when the moonroof is closed by automatic operation when the ignition switch is in the OFF position for about 10 seconds when the ignition switch is pushed to the OFF position.

If the moonroof cannot be closed automatically when the auto reverse function activates due to a malfunction, push and hold the close or open slide of the moonroof switch.

Depending on the environment or driving conditions, the auto reverse function may be activated if an impact or load similar to something being caught in the moonroof occurs.
If the moonroof does not operate

If the moonroof does not operate properly, perform the following procedure to initialize the moonroof operation system.

1. If the moonroof is open, close it fully by repeatedly pushing the CLOSE <enateur><nterface> 1 side of the moonroof switch to tilt the moonroof up.
2. Push and hold the CLOSE <enateur><nterface> 1 side of the moonroof switch.
3. Release the moonroof switch after the moonroof moves slightly up and down.
4. Push and hold the OPEN <enateur><nterface> 1 side of the moonroof switch to fully tilt the moonroof down.
5. Check if the moonroof switch operates normally.

If the moonroof does not operate properly after performing the procedure above, have your vehicle checked by an INFINITI retailer.

2-54 Instruments and controls

REMOTE KEYLESS ENTRY SYSTEM

**WARNING**

The Intelligent Key transmits radio waves when the buttons are pushed. The FAA advises that the radio waves may affect aircraft navigation and communication systems. Do not operate the Intelligent Key while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored during a flight.

It is possible to lock/unlock all doors, fuel filler door, activate the panic alarm and open the windows by pushing the buttons on the Intelligent Key from outside the vehicle.

Before locking the doors, make sure the Intelligent Key is not left in the vehicle.

The LOCK/UNLOCK button on the Intelligent Key can operate at a distance of approximately 33 ft (10 m) from the vehicle. (The effective distance depends upon the conditions around the vehicle.)

As many as 4 Intelligent Keys can be used with one vehicle. For information concerning the purchase and use of additional Intelligent Keys, contact an INFINITI retailer.

3-14 Pre-driving checks and adjustments

The lock and unlock buttons on the Intelligent Key will not operate when:

- the distance between the Intelligent Key and the vehicle is over 33 ft (10 m).
- the Intelligent Key battery is discharged.

After locking with the remote keyless entry function, pull the door handle to make sure the doors are securely locked.

The LOCK/UNLOCK operating range varies depending on the environment. To securely operate the lock and unlock buttons, approach the vehicle to about 3 ft (1 m) from the door.

HOW TO USE REMOTE KEYLESS ENTRY SYSTEM

When you lock or unlock the doors or the trunk lid, the hazard indicator will flash and the horn (or the outside chime) will sound as a confirmation. For details, see "Setting hazard indicator and horn mode" later in this section.
Locking doors and fuel-filler door

1. Push the ignition switch to the OFF position and make sure you carry the Intelligent Key with you.**
2. Close all the doors.*
3. Push the LOCK button (1) on the Intelligent Key.
4. All the doors and fuel-filler door will lock.
5. The hazard indicator flashes twice and the horn chirps once.

* Doors will lock with the Intelligent Key while the ignition switch is in the ACC or ON position.

** Doors will not lock with the Intelligent Key while any door is open. Operate the door handles to confirm that the doors have been securely locked.

Unlocking doors and fuel-filler door

1. Push the UNLOCK button (2) on the Intelligent Key once.
2. The hazard indicator flashes once. The driver’s door and fuel-filler door will unlock.
3. Push the UNLOCK button (1) on the Intelligent Key again within 1 minute.
4. The hazard indicator flashes once again. All the doors will unlock.

All doors will be locked automatically unless one of the following operations is performed within 1 minute after pushing the UNLOCK button on the Intelligent Key while the doors are locked. If during this 1-minute time period, the UNLOCK button on the Intelligent Key is pushed, all doors will be locked automatically after another 1 minute.

- Opening any door
- Closing the ignition switch

Opening windows

The UNLOCK button operation also allows you to open the window that is equipped with the automatic operation function (See “POWER WINDOWS” in the “2. Instruments and controls” section).

To open the window, push the door UNLOCK button (2) on the Intelligent Key for about 3 seconds after the door is unlocked.

To stop opening, release the UNLOCK button.

If the window open operation is stopped in mid-operation while pushing the UNLOCK button, release and push the UNLOCK button again until the window opens completely.

Window cannot be closed using the Intelligent Key.

The door window can also be operated by turning the mechanical key in a door lock. (See “DOORS” earlier in this section.)

Opening trunk lid

1. Push the TRUNK button (3) on the Intelligent Key for more than 1 second.
2. The trunk will unlatch.
3. Raise the trunk lid to open the trunk.

Using panic alarm

If you are near your vehicle and feel threatened, you may activate the alarm to call attention as follows:

1. Push the PANIC button (4) on the key for more than 1 second.
2. The theft warning alarm and headlights will stay on for 25 seconds.
3. The panic alarm stops when:
   - It has run for 25 seconds, or
   - Any of the buttons on the Intelligent Key are pushed. (Note: Panic button should be pushed for more than 1 second.)

Pre-driving checks and adjustments 3-15
SECTION 7
PLOTS
GTL 6586, NHTSA CA5204.

FMVSS 118, Left Front W/6mm Rod.

Force in Newtons.

Time in Seconds
GTL 6588, NHTSA CA5204.

FMVSS 118, Right Front W/6mm Rod.

Force in Newtons.
GTL 6589, NHTSA CA5204.

FMVSS 118, Right Rear W/6mm Rod.
GTL 6590, NHTSA CA5204.

FMVSS 118, Roof Panel W/6mm Rod.

Force in Newtons.

Time in Seconds