REPORT NUMBER 118-GTL-11-001

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

HONDA MFG. OF ALABAMA, LLC
2011 HONDA ODYSSEY, MPV
NHTSA NO. CB5300

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

February 4, 2011

FINAL REPORT

PREPARED FOR

U. S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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16. Abstract

Compliance tests were conducted on the subject 2011 Honda Odyssey 5-door LX MPV 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

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SECTION 1

PURPOSE OF COMPLIANCE TEST

1.0 PURPOSE OF TEST

A model year 2011 Honda Odyssey 5-door LX MPV 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 2011 Honda Odyssey 5-door LX MPV. The vehicle was identified as follows:

A. Vehicle Identification Number: 5FNRL5H20BB011182

B. NHTSA No.: CB5300

C. Manufacturer: HONDA MFG. OF ALABAMA, LLC

D. Manufacture Date: 10/10

E. Color: Alabaster Silver

1.2 TEST DATE

The test vehicle was subjected to FMVSS No. 118 testing on January 26, 2011.

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 Off with Key Removed Test
H. Perform Exterior Locking System Test
I. Perform Occupant Compartment Actuation Device Test(Sphere Test and Pull up or Pull Out Test)
J. Perform Auto Reverse Force Testing (information purpose only)

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 2011 Honda Odyssey.

FMVSS 118
COMPLIANCE DATA SUMMARY SHEET

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY

VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182

VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10

LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 01/26/11

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

REMARKS:

RECORDED BY: G. Farrand DATE: 01/26/11

APPROVED BY: D. Messick

WPRP PRE-OPERATIONAL CHECK

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY
VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182
VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 01/26/11

Identify power-operated WPRP and WPRP actuation devices

	LEFT FRONT	LEFT REAR	RIGHT FRONT	RIGHT REAR	TAIL GATE	PARTITION	ROOF PANEL
Power WPRP Installed	X	X	X	X			
Individual Interior Actuation Devices	X	X	X	X			
Master Control Panel Actuation Devices	X						
WPRP Operated by Exterior Locking System	X	X	X	X			
WPRP Operated by Remote Control							
WPRP with Auto-Reverse Capability	X		X				
WPRP with Express-Up Capability	X		X				

Master Control Panel Location: Driver's Door Panel

Exterior Locking System Location: Driver's Door Just Below Door Handle

Remote Control Type: ( ) Line of Sight ( ) 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 Push/Pull
Vents

Interior Locking System Key Positions (clockwise): Off/Lock, Accessory, On/Run, 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:
( ) YES (X) Not Applicable –Not operative in Accessory position

REMARKS:

RECORDED BY: G. Farrand DATE: 01/26/11
APPROVED BY: D. Messick

DATA SHEET 1
INTERIOR LOCKING SYSTEM TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY
VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182
VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 01/26/11

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

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

REMARKS:

RECORDED BY: G. Farrand DATE: 01/26/11

APPROVED BY: D. Messick

DATA SHEET 2
INTERIOR LOCKING SYSTEM WITH KEY REMOVED TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY
VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182
VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 01/26/11

Key lock position at start of test execution: (X) ON ( ) ACCESSORY Then: Engine off, door open, and key out of range. (X) Key Removed

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

REMARKS:

RECORDED BY: G. Farrand DATE: 01/26/11
APPROVED BY: D. Messick

DATA SHEET 3
EXTERIOR LOCKING SYSTEM TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY
VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182
VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 01/26/11

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's Door

Describe how the exterior locking system is activated: Insert metal key into lock, rotate two times clockwise and hold to unlock vehicle and lower windows or rotate two times counter clockwise and hold to lock vehicle and raise windows.

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.

WINDOW, PARTITION AND ROOF PANEL IDENTIFICATION	EXTERIOR LOCKING SYSTEM		EXTERIOR LOCKING SYSTEM (PASS/FAIL)*
	OPERABLE (YES/NO)	CONTINUOUS ACTIVATION REQUIRED (YES/NO)	
LEFT FRONT (LF)	YES	YES	PASS
RIGHT FRONT (RF)	YES	YES	PASS
LEFT REAR (LR)	YES	YES	PASS
RIGHT REAR (RR)	YES	YES	PASS
VENT WINDOW(S)			
PARTITION(P)			
ROOF PANEL (RP)			
TAIL GATE (TG)			

*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: 01/26/11
APPROVED BY: D. Messick

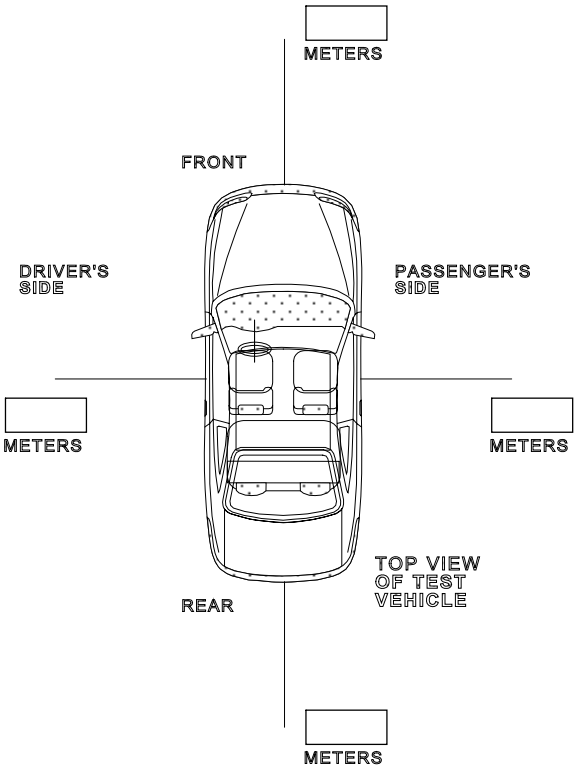
DATA SHEET 4
REMOTE ACTUATION DEVICE

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY
VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182
VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 01/26/11

Type of remote actuation device installed on vehicle (check one):
( ) 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 N/A



REMARKS:

RECORDED BY: G. Farrand DATE: 01/26/11
APPROVED BY: D. Messick

DATA SHEET 5
OCCUPANT COMPARTMENT ACTUATION DEVICE TEST
SPHERE TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY
VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182
VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 01/26/11

ACTUATION DEVICES	APPLICABLE (YES/NO*)	SPHERE ACTIVATED ACTUATION DEVICE CLOSES WPRP (YES/NO)	TEST RESULT PASS/FAIL	COMPLIANCE REQUIRED (Y/N**)
MASTER CONTROL PANEL 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
Tail Gate (TG)				
Vent Window(s)				
Partition (P)				
Roof Panel (RP)				
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)				

*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.

RECORDED BY: G. Farrand DATE: 01/16/11
APPROVED BY: D. Messick

DATA SHEET 6
OCCUPANT COMPARTMENT ACTUATION DEVICE TEST
FOR POWER-OPERATED WINDOWS ONLY
PULL UP OR PULL OUT TEST

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY
VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182
VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 01/26/11

ACTUATION DEVICES	SWITCH ORIENTATION A – horizontal B – vertical C - angled	CLOSES POWER-OPERATED WINDOW ONLY IF: PULL UP OR PULL OUT	TEST RESULT PASS/FAIL	COMPLIANCE REQUIRED (Y/N**)
MASTER CONTROL PANEL ACTUATION DEVICES				
Left Front (LF)	A	Pull Up	Pass	Yes
Right Front (RF)	A	Pull Up	Pass	Yes
Left Rear (LR)	A	Pull Up	Pass	Yes
Right Rear (RR)	A	Pull Up	Pass	Yes
Vent Window(s)				
INDIVIDUAL ACTUATION DEVICES				
Left Front (LF)	A	Pull Up	Pass	Yes
Right Front (RF)	A	Pull Up	Pass	Yes
Left Rear (LR)	A	Pull Up	Pass	Yes
Right Rear (RR)	A	Pull Up	Pass	Yes
Vent Window(s)				

RECORDED BY: G. Farrand DATE: 01/26/11
APPROVED BY: D. Messick

DATA SHEET 7
WPRP PHYSICAL CONTACT REVERSAL CAPABILITY

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY
VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182
VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 01/26/11

WPRP's equipped with reversal capability: Yes, Front Driver and Passenger
WPRP's that must meet reversal requirement: None**
Locking System Position: On

GTL Test #	Window, Partition, Roof Panel	Test Rod Placement in Window, Partition or Roof Panel	Test Rod Size/Deflection	Window, Partition or Roof Panel Opening Before/After Closing (mm)	Maximum Force Measured on Test Rod (Newtons)	Window, Partition, or Roof Panel Reversing Distance (mm)	Pass/Fail*
6844	L.F. Window	Top	25 mm	105/237	79	132	P**
6845	R.F. Window	Top	25 mm	92/232	81	140	P**

*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 S5 requirements for automatic reversal as it complies with opening requirements of S4.

RECORDED BY: G. Farrand DATE: 01/26/11
APPROVED BY: D. Messick

SECTION 4
TEST EQUIPMENT LIST

VEHICLE MAKE/MODEL/BODY STYLE: 2011 HONDA ODYSSEY
VEHICLE NHTSA NO: CB5300 VIN: 5FNRL5H20BB011182
VEHICLE TYPE: MPV DATE OF MANUFACTURE: 10/10
LABORATORY: GENERAL TESTING LABORATORIES TEST DATE: 05/12/10

ITEM	MFR	MODEL	S/N	CAL. PERIOD	DATE OF LAST CALIB.	REMARKS
SLR DIGITAL CAMERA	NIKON	D50	N/A	N/A	N/A	
PINCH FORCE SENSOR	SENSOR DEVELOPMENTS, INC.	10293	179104	12 MO.	05/11	

REMARKS:

RECORDED BY: G. FARRAND DATE: 01/26/11

APPROVED BY: D. MESSICK

SECTION 5

PHOTOGRAPHS

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

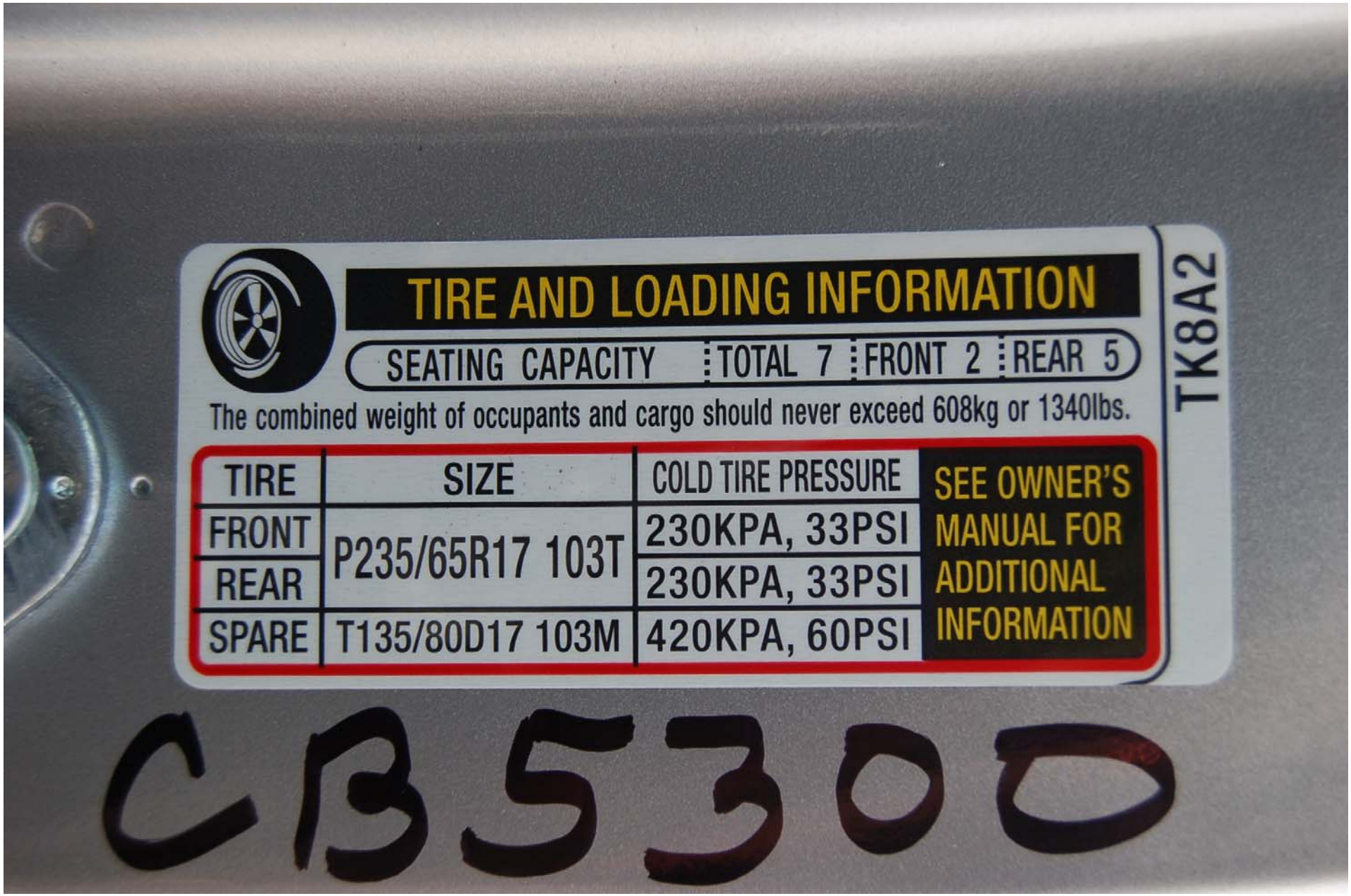
FIGURE 5.1
¾ FRONTAL VIEW FROM RIGHT SIDE OF VEHICLE

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.2
¾ REAR VIEW FROM LEFT SIDE OF VEHICLE

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.3
CLOSE-UP VIEW OF VEHICLE CERTIFICATION LABEL



2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.4
CLOSE-UP VIEW OF TIRE INFORMATION LABEL

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.5
MASTER CONTROL SWITCH/LEFT FRONT POWER WINDOW SWITCH

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.6
CLOSE-UP VIEW OF RIGHT FRONT POWER WINDOW SWITCH

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.7
CLOSE-UP VIEW OF RIGHT REAR POWER WINDOW SWITCH

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.8
CLOSE-UP VIEW OF LEFT REAR POWER WINDOW SWITCH

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.9
KEY

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.10
EXTERIOR LOCKING SYSTEM

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.11
SPHERE TEST ON MASTER SWITCH

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.12
SPHERE TEST ON RIGHT FRONT SWITCH

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.13
SPHERE TEST ON LEFT REAR SWITCH

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.14
SPHERE TEST ON RIGHT REAR SWITCH

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.15
INSTRUMENTATION TEST SET-UP

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

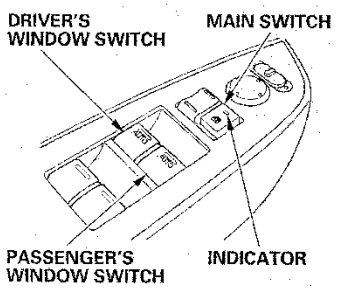
FIGURE 5.16
FORCE TEST INSTRUMENT SET-UP ON RIGHT FRONT WINDOW

2011 HONDA ODYSSEY
NHTSA NO. CB5300
FMVSS NO. 118

FIGURE 5.17
FORCE TEST INSTRUMENT SET-UP ON LEFT FRONT WINDOW

SECTION 6
OWNER'S MANUAL INFORMATION

Power Windows



Turn the ignition switch to the ON (II) position to raise or lower any window. To open a window, push the switch down and hold it. Release the switch when you want the window to stop. Pull back on the switch and hold it to close the window.

⚠WARNING

Closing a power window on someone's hands or fingers can cause serious injury.

Make sure your passengers are away from the windows before closing them.

AUTO – To open either front window fully, push the window switch firmly down to the second detent, then release it. The window automatically goes down all the way. To stop the window from going all the way down, pull back on the window switch briefly.

To close either front window fully, pull back the window switch firmly to the second detent, then release it. The window automatically goes all the way up. To stop the window from going all the way up, push down on the window switch briefly.

When you push the main switch in, the indicator comes on and the passengers' windows cannot be raised or lowered. Use the main switch when you have children in the vehicle so they do not injure themselves by operating the windows unintentionally. To cancel this feature, push on the switch again. The switch will pop out and the indicator will go off.

The windows and the main switch feature will operate for up to 10 minutes after you turn off the ignition switch. Opening either front door cancels this function.

AUTO REVERSE – If either front window senses any obstacle while it is closing automatically, it will reverse direction and then stop. To close the window, remove the obstacle, then use the window switch again.

Auto reverse stops sensing when the window is almost closed. You should always check that all passengers and objects are away from the window before closing it.

NOTE: The driver's window auto reverse function is disabled when you continuously pull up the switch.

Opening the Windows and Moonroof with the Remote Transmitter

On all models except LX

You can open all of the windows and the moonroof (if equipped) from the outside with the remote transmitter.

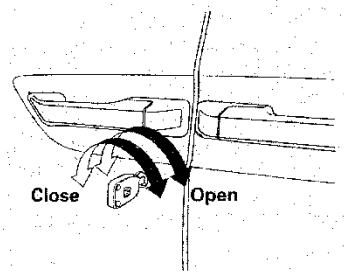
1. Press the UNLOCK button once to unlock the driver's door.
2. Press the UNLOCK button a second time, and hold it. The passenger's doors and the tailgate unlock, and all four windows and moonroof start to open. To stop the windows and moonroof, release the button.

Power Windows

3. To open the windows and moonroof further, press the button again (within 10 seconds of step 1) and hold it. If the windows and the moonroof stop before the desired position, repeat steps 1 and 2.

You cannot close the windows or the moonroof with the remote transmitter.

Opening/Closing the Windows with the Key



You can open and close the windows and the moonroof (if equipped) with the key in the driver's door lock.

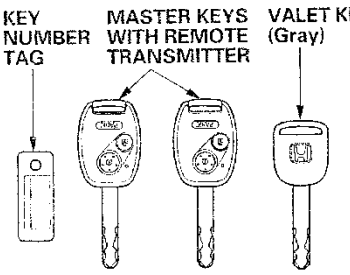
To open:
1. Insert the key in the driver's door lock.
2. Turn the key clockwise, then release it.
3. Turn the key clockwise again, and hold it. All four windows and the moonroof start to open. To stop the windows and the moonroof, release the key.
4. To open the windows and the moonroof further, turn and hold the key again (within 10 seconds of step 2).

To close:
1. Insert the key in the driver's door lock.
2. Turn the key counterclockwise, then release it.
3. Turn the key counterclockwise again, and hold it. All four windows and the moonroof start to close. To stop the windows and the moonroof, release the key.
4. To close the windows and the moonroof further, turn and hold the key again (within 10 seconds of step 2).

NOTE: If the windows and the moonroof stop before the desired position, repeat steps 2 and 3.

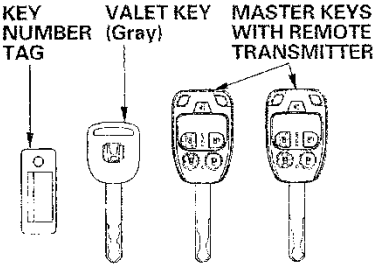
Keys and Locks

LX models



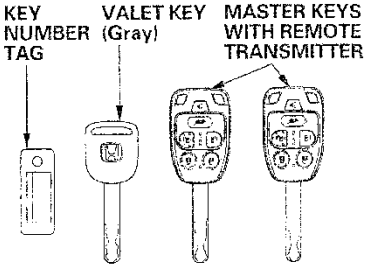
The master key fits all the locks on your vehicle. The valet key works only in the ignition and the door locks. You can keep the glove box locked when you leave your vehicle and the valet key at a parking facility.

EX models

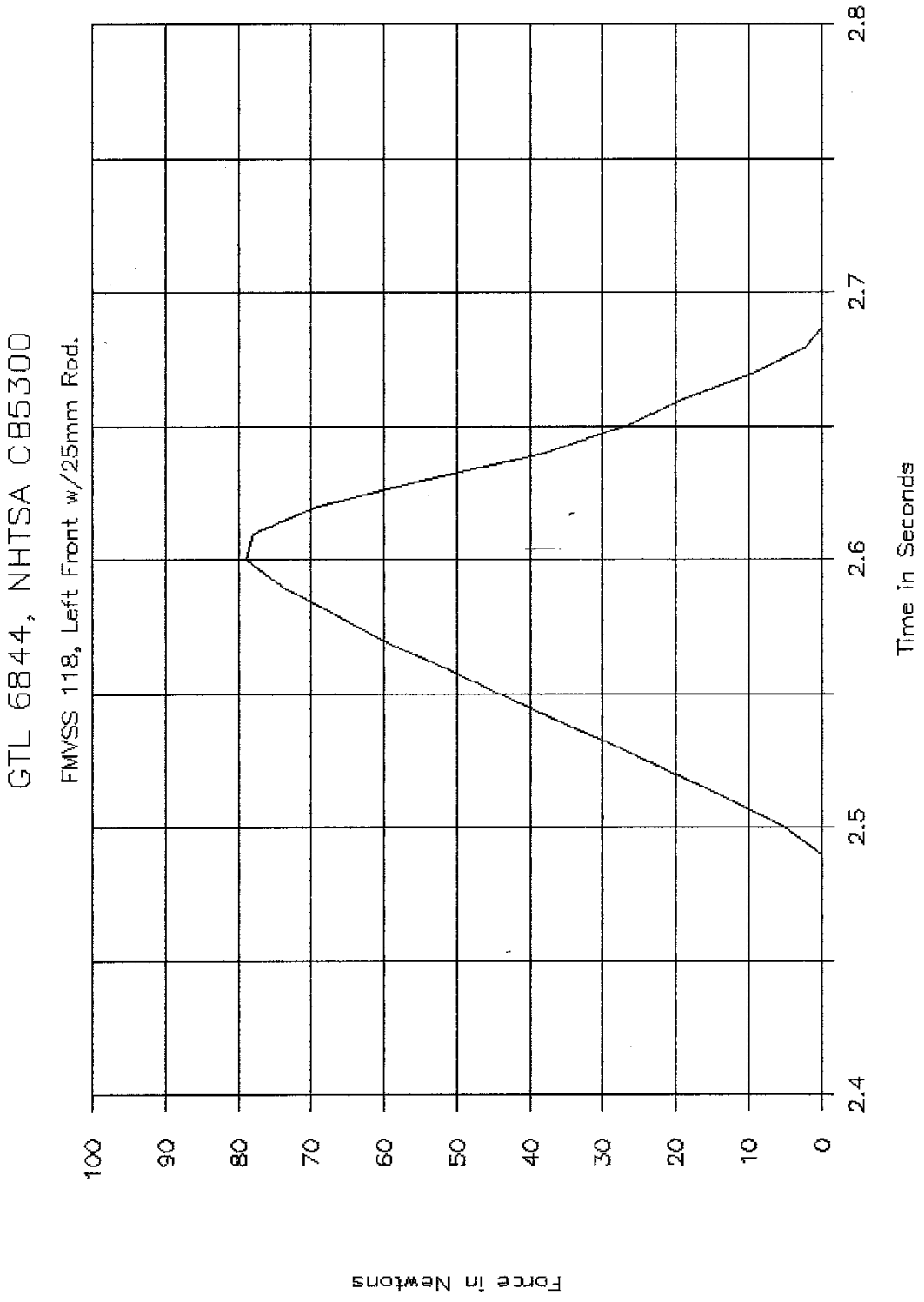


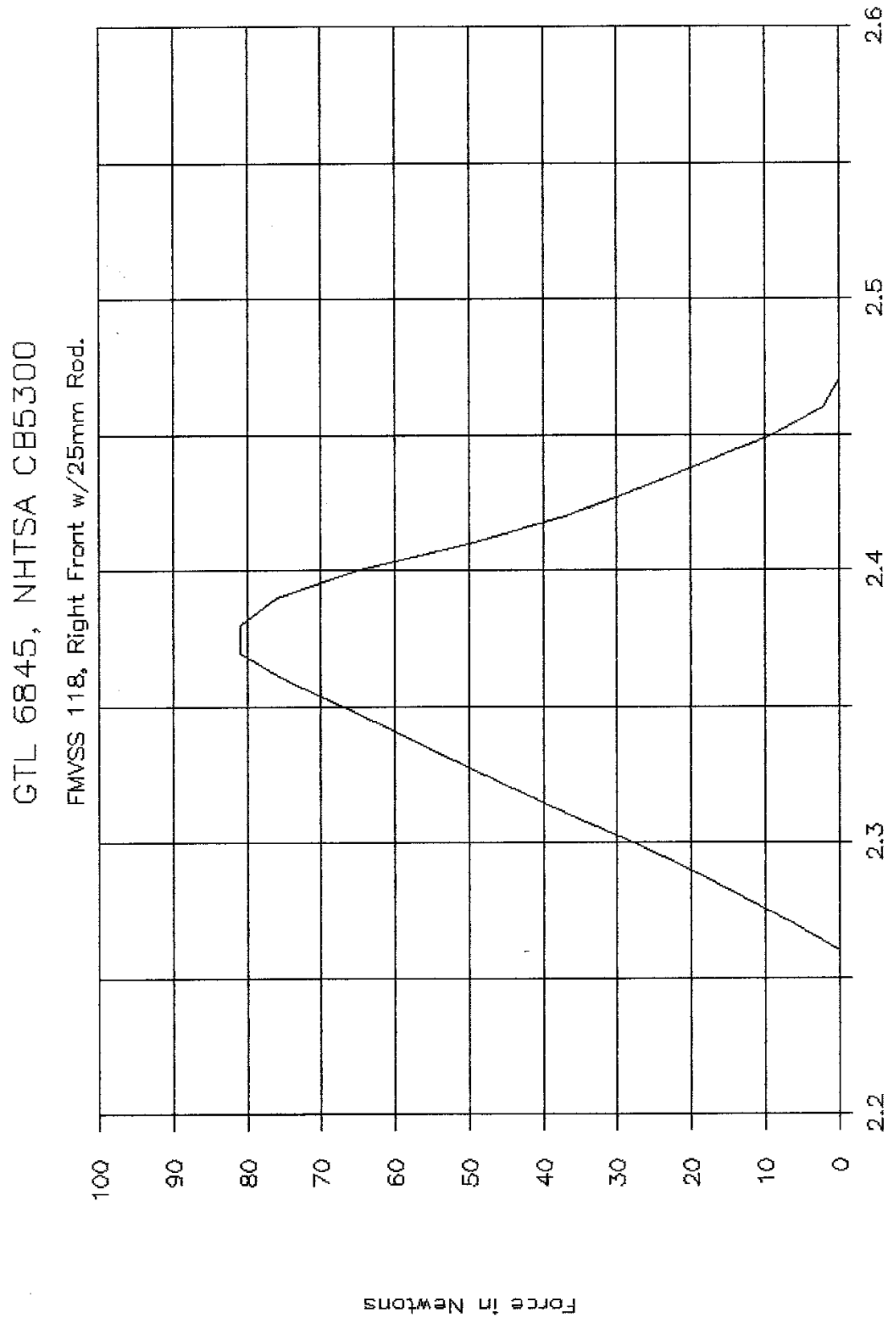
You should have received a key number tag with your keys. You will need this key number if you ever have to get a lost key replaced. Use only Honda-approved key blanks.

EX-L and Touring models



SECTION 7
PLOTS


GTL 6844, NHTSA C85300
FMVSS 118, Left Front w/25mm Rod.
Force in Newtons
100
90
80
70
60
50
40
30
20
10
0
2.4
2.5
2.6
2.7
2.8
Time in Seconds


GTL 6845, NHTSA CB5300
FMVSS 118, Right Front w/25mm Rod.
Force in Newtons
100
90
80
70
60
50
40
30
20
10
0
2.2
2.3
2.4
2.5
2.6
Time in Seconds