REPORT NO. 118-KAR-04-004

SAFETY COMPLIANCE TESTING FOR FMVSS 118

Power-Operated Window, Partition, And Roof Panel Systems

2004 CHEVROLET MALIBU 4 DOOR SEDAN

NHTSA NO. C40105

PREPARED BY: KARCO ENGINEERING 9270 HOLLY ROAD ADELANTO, CALIFORNIA 92301



July 1, 2004

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
ROOM 6111 (NVS-220)
400 SEVENTH STREET, SW
WASHINGTON, D.C. 20590

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1. PURPOSE OF COMPLIANCE TEST

Tests were conducted on a 2004 Chevrolet Malibu, manufactured by General Motors Corporation to determine compliance with FMVSS 118 "Power-Operated Window, Partition, and Roof Panel Systems". 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.

All tests were conducted based on the current National Highway Traffic Safety Administration (NHTSA), Office of Vehicle Safety Compliance (OVSC) Laboratory Procedures, TP-118-03, dated April 8, 1994, and corresponding KARCO Engineering test procedure KTP-118, dated March 16, 2004. Detailed procedures for receiving, Inspecting, testing and reporting of test results are described in the test procedures and are not repeated in this report.

2. TEST PROCEDURE AND DATA SUMMARY

A 2004 Chevrolet Malibu was subjected to FMVSS 118 compliance testing. The tests were conducted at KARCO Engineering In Adelanto, California on April 5, 2004. FMVSS 118 Compliance testing was performed in the following sequence:

- Vehicle Receiving Photographs
- Test Vehicle Check-in
- Power Window, Partitions and Roof Panel Identification/Documentation
- Interior, Exterior and Remote Control Switch Identification/Documentation
- Pre-Test Operation of all Power Windows, Partitions and Roof Panels
- Photograph Vehicle Ignition Switch and Master and Individual Power Window,
 Partition and Roof Panel Switches
- Perform Ignition Switch Off Test
- Perform Ignition Key Removed Test
- Perform Exterior Key Locking System Test
- Perform Remote Control System Test
- Perform Reversal System Test

DATA SUMMARY

VEHICLE					
YEAR	2004	MAKE	Chevrolet		
MODEL	Melibu	BODY STYLE	4 Door Sedan		
NHTSA NO.	C40105	VIN	1G1ZT52864F122193		
TEST DATE:	04/05/04				

SWITCH ACTUATION

WINDOWS,	INTERIOR KEY	LOCKING SYSTEM	EXTERIOR					
PARTITIONS,	IGNITION KEY	IGNITION KEY REMOVED	LOCKING					
ROOF PANEL	OFF	(PASS/FAIL)	SYSTEM					
SWITCHES	(PASS/FAIL)		(PASS / FAIL)					
MASTER SWITCH PANEL								
Left Front (LF)	PASS	PASS	N/A					
Right Front (RF)	PASS	PASS	N/A					
Left Rear (LR)	PASS	PASS	N/A					
Right Rear (RR)	PASS	PASS	N/A					
Tail Gate (TG)	N/A	N/A	N/A					
Partition	N/A	N/A	N/A					
Roof Panel (RP)	N/A	N/A	N/A					
	INDIVIDUA	L SWITCHES						
Left Front (LF)	N/A	N/A	N/A					
Right Front (RF)	PASS	PASS	N/A					
Left Rear (LR)	PASS	PASS	N/A					
Right Rear(RR)	PASS	PASS	N/A					
Right Rear(RR)	N/A	N/A	N/A					
Tail Gate (TG)	N/A	N/A	N/A					
Partition (P)	N/A	N/A	N/A					
Roof Panel (RP)	N/A	N/A	N/A					

REMARKS: The master switch control panel is located on the driver side door panel and includes the individual left front window switch.

DATA SUMMARY (CONTINUED)

REMOTE ACTUATION DEVICE

VEHICLE ORIENTATION REMOTE ACTUATION DEVICE	NON-LINE OF SIGHT REMOTE (METERS)	LINE OF SIGHT REMOTE (METERS)		
FRONT	N/A	N/A		
DRIVER SIDE	N/A	N/A		
PASSENGER SIDE	N/A	N/A		
REAR	N/A	N/A		

WPRP OBSTRUCTION FORCE REVERSAL

(NEWTONS)	PARTITION, OR ROOF PANEL OPENED ON REVERSAL (mm)
N/A	N/A
	N/A N/A N/A N/A N/A

REMARKS: This vehicle is not equipped with a remote actuation device that allows the windows to be operated.

The subject 2004 Chevrolet Malibu appeared to meet the requirements of FMVSS 118.

3. TEST DATA

DATA SHEET NO. 1 VEHICLE IDENTIFICATION

VEHICLE						
YEAR	2004	MAKE	Chevrolet			
MODEL	Malibu	BODY STYLE	4 Door Sedan			
NHTSA NO.	C40105	VIN	1G1ZT52864F122193			
TEST DATE:	04/05/04					

Identify Vehicle equipped WPRP and WPRP controls

	LEFT FRONT	LEFT REAR	RIGHT FRONT	RIGHT REAR	TAIL GATE	PARTITION	ROOF PANEL
Power Windows	Х	Х	Х	Х	N/A	N/A	N/A
Interior Switches	х	X	Х	X	N/A	N/A	N/A
Master Control Panel	Х	X .	х	Х	N/A	N/A	N/A
Exterior Switches	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Remote Controller	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Auto-Reverse	N/A	N/A	N/A	N/A	N/A	N/A	NA

Master Control Panel Location: <u>Driver Side Door Panel</u>

Remote Control: None.

Window Switch Design: Master Control Switches - Flush Mounted Lever Switch push

down to open, pull up to close,

Individual Window Switches - Flush Mounted Lever Switch push

down to open, pull up to close.

Exterior Control Switch: None.

Sunroof: N/A

REMARKS: Master control panel switch is located in the driver side door panel. Individual

switches are located in each respective door panel.

RECORDED BY: MATTHEW A. IVORY DATE: 04/05/04

APPROVED BY: MICHAEL L. DUNLAP DATE: 04/05/04

6

DATA SHEET NO. 2 IGNITION KEY OFF TEST

VEHICLE					
YEAR	2004	MAKE	Chevrolet		
MODEL	Malibu	BODY STYLE	4 Door Sedan		
NHTSA NO.	C40105	VIN	1G1ZT52864F122193		
TEST DATE:	04/05/04				

Pre-Test Check: Window, Partition, Roof Panel Systems operate with Ignition Switch in "ON" Position	YES	×	NO	
Pre-Test Check: Window, Partition, Roof Panel Systems operate with Ignition Switch in "ACCESSORY" Position	YES		NO	х

WINDOW	DOORS	CLOSED	LEFT DO	OR OPEN	RIGHT DO	OOR OPEN	PASS/ FAIL
SWITCHES	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	
			MASTER		•		
Left Front (LF)	N/A	X	x	N/A	X	N/A	PASS
Right Front (RF)	N/A	x	X '	N/A	х	N/A	PASS
Left Rear (LR)	N/A	х	×	N/A	×	N/A	PASS
Right Rear (RR)	N/A	×	х	N/A	x	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A .
	<u> </u>	IN	DIVIDUAL				
Left Front (LF)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Front (RF)	N/A	×	х	N/A	х	N/A	PASS
Left Rear (LR)	N/A	×	х	N/A	х	N/A	PASS
Right Rear (RR)	N/A	х	х	N/A	X	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DEMARKS The s	meter left fro	at esuitab is	the come	as the Indiv	idual left for	ont ewitich T	est was

REMARKS: The master left front switch is the same as the Individual left front switch. Test was performed with key in the "O" position. For the pre-test check in the "Accessory" position the key was moved from the "O" position to the "Accessory" position without cycling through the "I" position or starting the engine.

RECORDED BY:	MATTHEW A. IVORY	DATE:	04/05/04
APPROVED BY:	MICHAEL L. DUNLAP	DATE:	04/05/04
		<u> </u>	

DATA SHEET NO. 3 IGNITION KEY REMOVED TEST

	VEHICLE						
YEAR	2004	MAKE	Chevrolet				
MODEL	Malibu	BODY STYLE	4 Door Sedan				
NHTSA NO.	C40105	VIN	1G1ZT52864F122193				
TEST DATE:	04/05/04						

WINDOW	DOORS	CLOSED	LEFT DO	OR OPEN	RIGHT DO	OR OPEN	PASS/
SWITCHES	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	FAIL
			MASTER				
Left Front (LF)	N/A	х	X	N/A	×	N/A	PASS
Right Front (RF)	N/A	х	х	N/A	X	N/A	PASS
Left Rear (LR)	N/A	×	Χ.	N/A	х	. N/A	PASS
Right Rear (RR)	N/A	х	х	N/A	х	N/A	PASS
Tail Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			INDIVIDUAL	_		•	
Left Front (LF)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Right Front (RF)	N/A	х	x	N/A	×	N/A	PASS
Left Rear (LR)	N/A	х	×	N/A	Х	N/A	PASS
Right Rear (RR)	N/A	х	х	N/A	×	N/A	PASS
Tall Gate (TG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Partition (P)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panel (RP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

REMARKS: The master left front switch is the same as the individual left front switch.

RECORDED BY:	MATTHEW A. IVORY	DATE:	04/05/04
APPROVED BY:	MICHAEL L. DUNLAP	DATE:	04/05/04

DATA SHEET NO. 4 EXTERIOR KEY LOCKING SYSTEM

VEHICLE					
YEAR	2004	MAKE	Chevrolet		
MODEL	Malibu	BODY STYLE	4 Door Sedan		
NHTSA NO.	C40105	VIN	1G1ZT52864F122193		
TEST DATE:	04/05/04				

EXTERIOR LOCKING CONTROL SWITCH TEST					
Can Any WPRP Be Operated by Directly Using A Key In an Exterior Locking Control Switch?	Yes	N/A	No	x	
If Yes: Is Continuous Activation of the Switch Required	Yes	N/A	No	х	

NOTE: Continuous activation is required for WPRP activation by exterior key locking systems.

IDENTIFY WINDOW, PARTITION AND ROOF PANEL POSITIONS WHICH ARE OPERABLE WITH EXTERIOR KEY.

	OPERABL	OPERABLE W/KEY		JS ACTION	PASS / FAIL
LOCATION	YES	NO.	YES	NO	
LEFT FRONT (LF)	N/A	x	N/A	N/A	N/A
RIGHT FRONT (RF)	N/A	×	N/A	N/A	N/A
LEFT REAR (LR)	N/A	×	N/A	N/A	N/A
RIGHT REAR (RR)	N/A	х	N/A	N/A	N/A
PARTITION (P)	N/A	N/A	N/A	N/A	N/A
ROOF PANEL (RP)	N/A	N/A	N/A	N/A	N/A
TAIL GATE (TG)	N/A	N/A	N/A	N/A	N/A

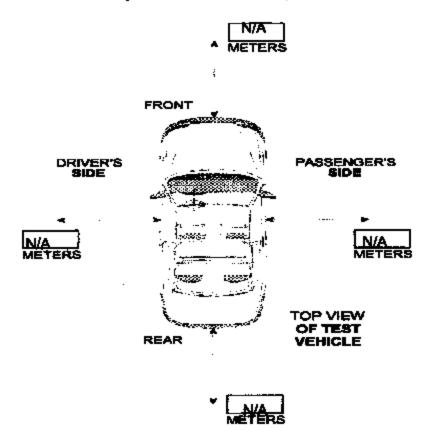
REMARKS: Vehicle is not equipped with an exterior key locking system capable of opening windows.

RECORDED BY:	MATTHEW A. IVORY	DATE:	04/05/04
APPROVED BY:	MICHAEL L. DUNLAP	DATE:	04/05/04
			•

DATA SHEET NO. 5 MAXIMUM OPERATING RANGE FOR LINE-OF-SIGHT REMOTE

	110 D G 111 D 11 D 1 D 1 D 1 D 1 D 1 D 1 D				
VEHICLE					
YEAR	2004	MAKE	Chevrolet		
MODEL	Malibu	BODY STYLE	4 Door Sedan		
NHTSA NO.	C40105	VIN	1G1ZT52864F122193		
TEST DATE:	04/05/04				

If range of operation exceeds 11 meters in any of the below measured directions, the window, partition, and roof panel must meet the reversing requirements of FMVSS 118. Continuous activation of remote device is required to close windows, partition and roof panel YES () NO ().



REMARKS: The vehicle is not equipped with a remote actuation device that allows the windows to be operated.

RECORDED BY: MATTHEW A. IVORY

APPROVED BY: MICHAEL L. DUNLAP

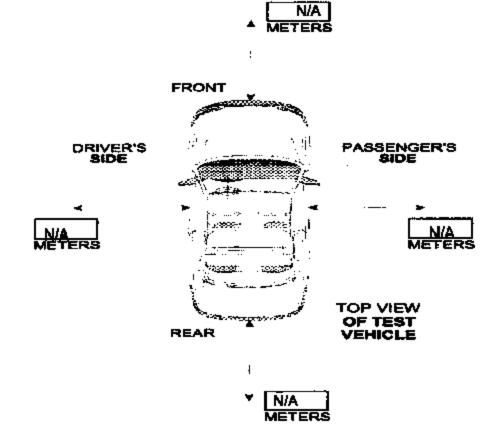
DATE: 04/05/04

DATE: 04/05/04

DATA SHEET NO. 6 MAXIMUM OPERATING RANGE FOR NON-LINE-OF-SIGHT REMOTE

VEHICLE						
YEAR	2004	MAKE	Chevrolet			
MODEL	Malibu	BODY STYLE	4 Door Sedan			
NHTSA NO.	C40105	VIN	1G1ZT52864F122193			
TEST DATE:	04/05/04					

If range of operation exceeds 6 meters in any of the below measured directions, the window, partition, and roof panel must meet the reversing requirements of FMVSS 118. Continuous activation of remote device is required to close windows, partition and roof panel YES () NO ().



REMARKS: The vehicle is not equipped with a remote actuation device that allows the windows to be operated.

RECORDED BY: MATTHEW A. IVORY DATE: 04/05/04

APPROVED BY: MICHAEL L. DUNLAP DATE: 04/05/04

4. PHOTOGRAPHS

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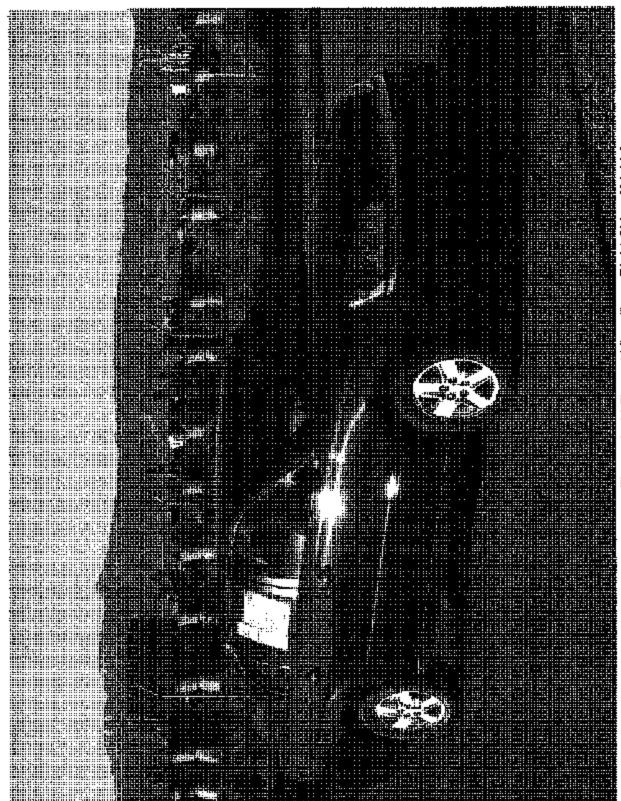


Figure 1: % Frontal View From Right Side of Vehicle

2004 CHEVY I NHTSA NO. (FMVSS NO.

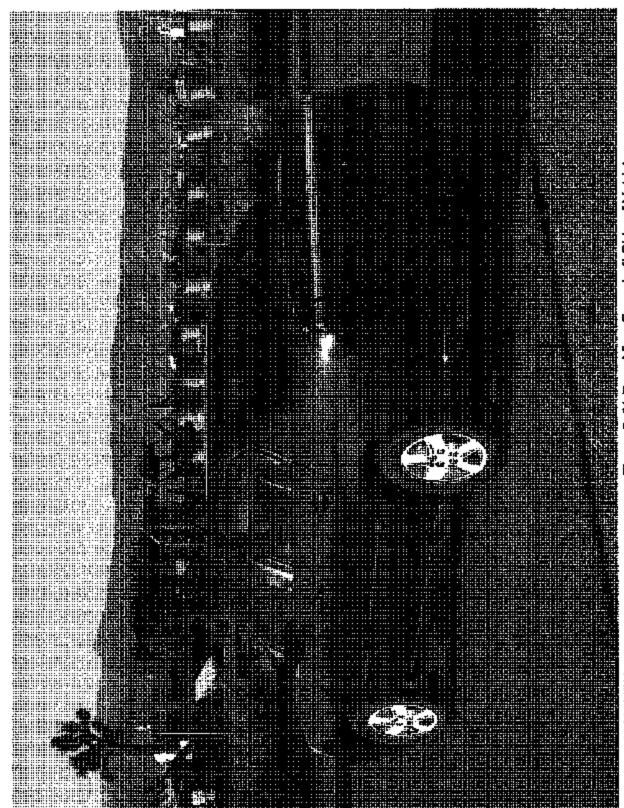


Figure 2: % Rear View From Left Side of Vehicle

Figure 3: Vehicle Certification Label

Figure 4: Tire Information Placard

Figure 5: Ignition Switch

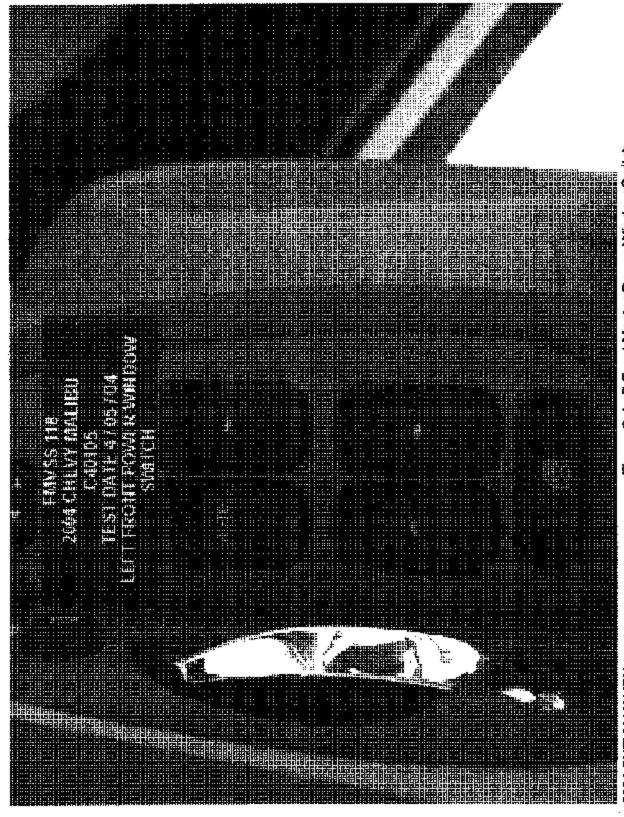


Figure 6: Left Front Master Power Window Switch

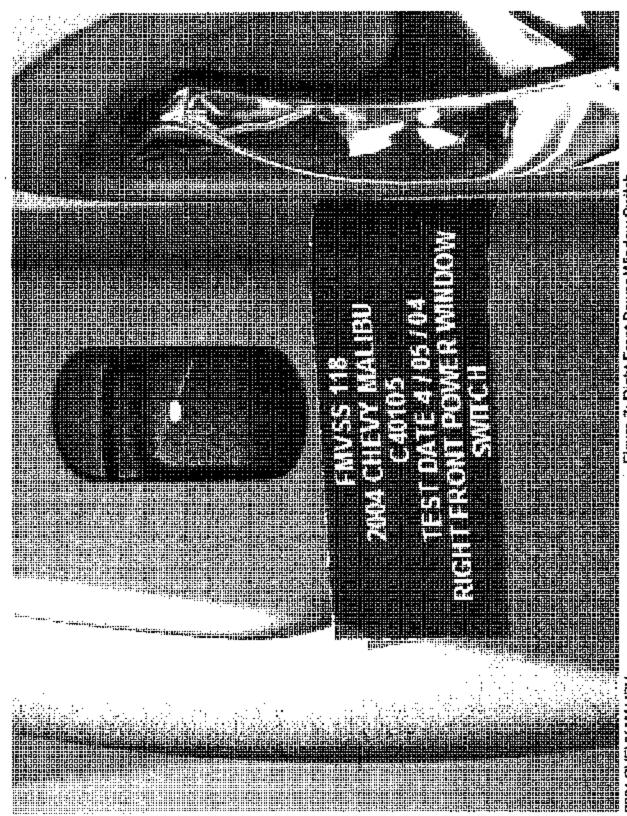
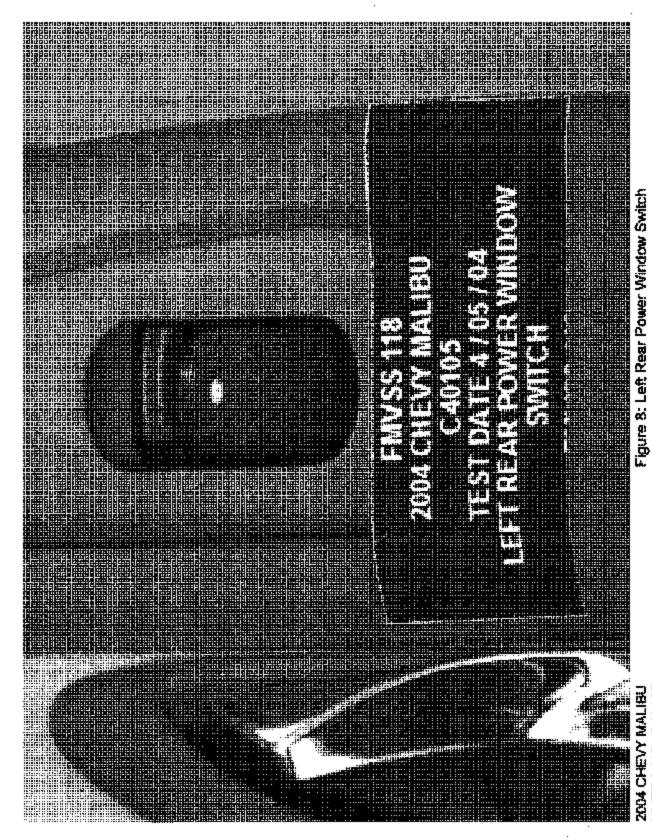


Figure 7: Right Front Power Window Switch

NHTSA NO. C40105 FMVSS NO. 118



NHTSA NO. C40105 FMVSS NO. 118

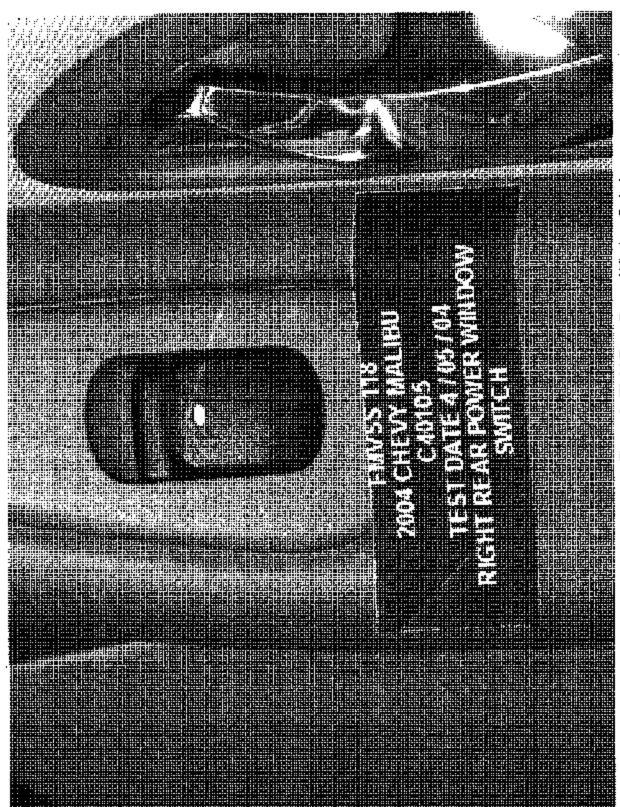
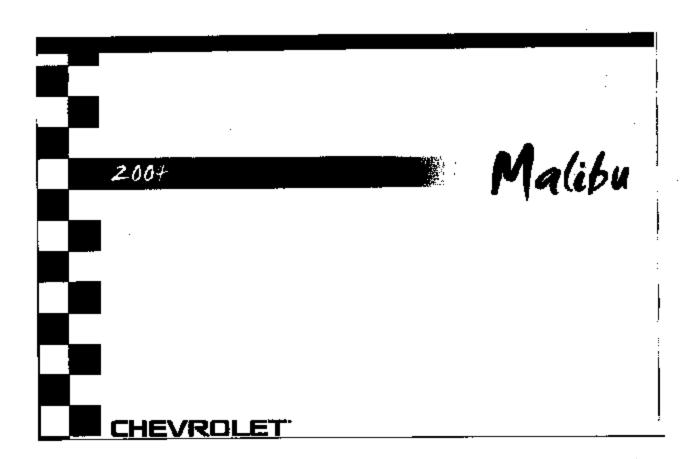


Figure 9: Right Rear Power Window Switch

VEHICLE					
YEAR	2004	MAKE	Chevrolet		
MODEL	Malibu	BODY STYLE	4 Door Sedan		
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VEHICLE					
YEAR	2004	MAKE	Chevrolet		
MODEL	Malibu	BODY STYLE	4 Door Sedan		
NHTSA NO.	C40105	VIN	1G1ZT52864F122193		
TEST DATE:	04/05/04				

Starting and Operating Your Vehicle

New Vehicle Break-in

Notice: Your vehicle does not need an elaborate "break-in." But it will perform better in the long run if you follow these guidelines:

- Do not drive at any one speed feel or allow — for the first 500 miles (895 km). Do not make full-throttle starts.
- Avoid making hard stope for the first 200 miles (322 km) or so. During this time your new brake finings are not yet broken in. Hard stope with new linings can meen premature wear and earlier replacement. Follow this breaking-in guideline every time you get new brake sinings.
- Do not tow a trailer during break-in. See Towing a Trailer on page 4-40 for more information.

Ignition Positions



With the key in the ignition switch, you can turn it to four different positions.

Notice: If your key seems stuck in CFF and you can not turn it, be ours you are using the correct law; if so, is it all the way in? Turn the key only with your hand. Using a tool to force it could break the key or the ignition switch. If none of this works, then your vohicle needs corride.

O (OFF): This is the only position from which you can remove the key, it also locks your ignition and transacte. A warning chiese will sound it you open the driver's door while the ignition is off-and the key is left in the lonition.

VEHICLE				
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TEST DATE:	04/05/04			

ACC (ACCESSORY): This position lets you use things like the radio and whoishleld wipers white the engine is not running. To use ACC, turn the key clockwise to the first position.

Use this position if your vehicle must be pushed or towad, but never try to push-start your vehicle. See Recreational Vehicle Towing on page 4-31.

I (ON): This position unlooks the ignition. It is also the position to where the key returns after you start the engine and release the switch. The switch will stay in this position while the engine is not running, you can use ON to operate your electrical accessories, and to display some instrument panel warning lights.

Q (START): This position starts the engine. When the engine starts, release the key. The ignition switch will return to the ON position for normal driving.

Retained Accessory Power (RAP)

Your vehicle has a Retained Accessory Power (RAP) feature which will allow some features to continue to work up to 10 minutes after the ignition is turned to off or until the driver's door is opened.

Your vehicle's surroof and heated seets, if equipped, and the power windows also work this way. They will turn off after 10 minutes or if any door is open.

Starting Your Engine

Move your shift lever to PARK (P) or NEUTRAL (N). Your engine will not start in any other position — that is a safety feature. To restart when you are already moving, use NEUTRAL (N) only.

Alotice: Shifting into PARK (P) with the vehicle moving could demage the transcale. Shift into PARK (P) only when your vehicle is stopped.

 With your foot off the accelerator pedal, turn your ignition key to STARIT. When the engine starts, let go of the key. The idle speed will go down as your engine gets warm.

VEHICLE				
YEAR	2004	MAKE	Chevrolet	
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NHTSA NO.	C40105	VIN .	1G1ZT52864F122193	
TEST DATE:	04/05/04			

Power Windows



The power window switches are located on the armrest on the driver's door, in addition, each passenger door has a switch for its own window.

Express-Down Window

The driver's window also has an express-down feature. This switch is labeled AUTO. Press the front of the switch part way, and the driver's window will open a small amount. If the front of the switch is pressed all the way down and released, the window will go all the way down automatically.

To stop the window while it is lowering, pull the front of the ewitch momentarity. To raise the window, pull and hold the front of the switch.

Window Lockout

The driver's power window controls also include a lock out button. Press the lock out button to stop the rear passengers from using their window switches. The driver and front passenger can still operate all the windows with the lock on. When the red part of the switch is visible you have returned to normal window operation.

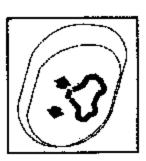
Sun Visors

To block out glare, you can swing down the visors. You can also remove them from the center mount and swing them to the side, to block out glare from the side. The visors also have extendent that can be pulled out.

Your vehicle may have lighted visor vanity mirrors located on the passenger and driver's side visor. When you lift the cover, the light will turn on.

VEHICLE					
YEAR	2004	MAKE	Chevrolet		
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NHTSA NO.	C40105	VIN	101ZT52564F122193		
TEST DATE:	04/05/04				

Sunroof



if your vehicle has this feature, the switch is located on the overhead console between the sun visors. The sunroof will only operate when the ignition is in ACC or ON or while in retained accessory power.

The sunroof can be opened to a vent position of R can be express-opened all of the way.

To open the surroof to the vent position, you must first open the sunshade by hand. Then push the back adge of the switch and release it.

To fully open the aumoor, push the back edge of the switch again and ralease it.

In both the vent and fully open positions, the air flow can be adjusted for driving confort by pushing and holding the forward edge of the switch until the sunrout moves to the desired position.

To close the sunroof, push the forward edge of the switch and hold if until the sunroof is diceed. The sunroof will stop if the switch is released during operation. Remember to close the sunstade by hand.

The sunroof glass panel cannot be opened or closed if your vehicle has an electrical failure.

Notice: If you force the sunshade forward of the sliding glass penel, demage will occur and the sunroof may not open or close properly. Always close the glass panel before closing the sunshade.