

REPORT NO. 118-KAR-04-005

**SAFETY COMPLIANCE TESTING
FOR FMVSS 118**

**Power-Operated Window, Partition,
And Roof Panel Systems**

2004 SUZUKI VERONA
4 DOOR SEDAN

NHTSA NO. C40502

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



June 22, 2004

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
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1. PURPOSE OF COMPLIANCE TEST

Tests were conducted on a 2004 Suzuki Verona, manufactured by GM Daewoo Auto & Technology Company, 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 Suzuki Verona was subjected to FMVSS 118 compliance testing. The tests were conducted at KARCO Engineering in Adelanto, California on March 31, 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	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	C40502	VIN	KL5VJ52L34B098285
TEST DATE:	03/31/04		

SWITCH ACTUATION

WINDOWS, PARTITIONS, ROOF PANEL SWITCHES	INTERIOR KEY LOCKING SYSTEM		EXTERIOR LOCKING SYSTEM (PASS / FAIL)
	IGNITION KEY OFF (PASS/FAIL)	IGNITION KEY REMOVED (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
INDIVIDUAL 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's side door panel and includes the individual left front window switch. Vehicle is not equipped with an exterior key locking system capability.

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

WINDOW, PARTITION, ROOF PANEL	FORCE TO REVERSE (NEWTONS)	DISTANCE WINDOW, PARTITION, OR ROOF PANEL OPENED ON REVERSAL (mm)
LEFT FRONT (LF)	N/A	N/A
RIGHT FRONT (RF)	N/A	N/A
LEFT REAR (LR)	N/A	N/A
RIGHT REAR (RR)	N/A	N/A
PARTITION (P)	N/A	N/A
ROOF PANEL (RP)	N/A	N/A
TAIL GATE (TG)	N/A	N/A

REMARKS: This vehicle is not equipped with a remote actuation device or a window reversal capability.

The subject 2004 Suzuki Verona appeared to meet the requirements of FMVSS 118.

3. TEST DATA

**DATA SHEET NO. 1
VEHICLE IDENTIFICATION**

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	C40502	VIN	KL5VJ32L34B008285
TEST DATE:	03/31/04		

Identify Vehicle equipped WPRP and WPRP controls

	LEFT FRONT	LEFT REAR	RIGHT FRONT	RIGHT REAR	TAIL GATE	PARTITION	ROOF PANEL
Power Windows	X	X	X	X	N/A	N/A	N/A
Interior Switches	X	X	X	X	N/A	N/A	N/A
Master Control Panel	X	X	X	X	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	N/A

Master Control Panel Location: Driver Side Door Panel

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. Refer to Section 5 page 26 of this report for a full explanation.

RECORDED BY: MATTHEW A. IVORY
 APPROVED BY: MICHAEL L. DUNLAP

DATE: 03/31/04
 DATE: 03/31/04

**DATA SHEET NO. 2
IGNITION KEY OFF TEST**

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	C40502	VIN	KL5VJ52L34B098285
TEST DATE:	03/31/04		

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

WINDOW SWITCHES	DOORS CLOSED		LEFT DOOR OPEN		RIGHT DOOR OPEN		PASS/FAIL
	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	
MASTER							
Left Front (LF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Front (RF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Left Rear (LR)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Rear (RR)	X	N/A	N/A	N/A	N/A	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)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Front (RF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Left Rear (LR)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Rear (RR)	X	N/A	N/A	N/A	N/A	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

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

RECORDED BY: MATTHEW A. IVORY

DATE: 03/31/04

APPROVED BY: MICHAEL L. DUNLAP

DATE: 03/31/04

**DATA SHEET NO. 3
IGNITION KEY REMOVED TEST**

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	G40502	VIN	KL5VJ52L34B098285
TEST DATE:	03/31/04		

WINDOW SWITCHES	DOORS CLOSED		LEFT DOOR OPEN		RIGHT DOOR OPEN		PASS/ FAIL
	INOP.	OPER.	INOP.	OPER.	INOP.	OPER.	
MASTER							
Left Front (LF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Front (RF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Left Rear (LR)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Rear (RR)	X	N/A	N/A	N/A	N/A	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)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Front (RF)	X	N/A	N/A	N/A	N/A	N/A	PASS
Left Rear (LR)	X	N/A	N/A	N/A	N/A	N/A	PASS
Right Rear (RR)	X	N/A	N/A	N/A	N/A	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

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

RECORDED BY: MATTHEW A. IVORY

DATE: 03/31/04

APPROVED BY: MICHAEL L. DUNLAP

DATE: 03/31/04

**DATA SHEET NO. 4
EXTERIOR KEY LOCKING SYSTEM**

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	C40502	VIN	KL5VJ52L34B098285
TEST DATE:	03/31/04		

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	X

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.

LOCATION	OPERABLE W/KEY		CONTINUOUS ACTION		PASS / FAIL
	YES	NO	YES	NO	
LEFT FRONT (LF)	N/A	X	N/A	N/A	N/A
RIGHT FRONT (RF)	N/A	X	N/A	N/A	N/A
LEFT REAR (LR)	N/A	X	N/A	N/A	N/A
RIGHT REAR (RR)	N/A	X	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 operating windows.

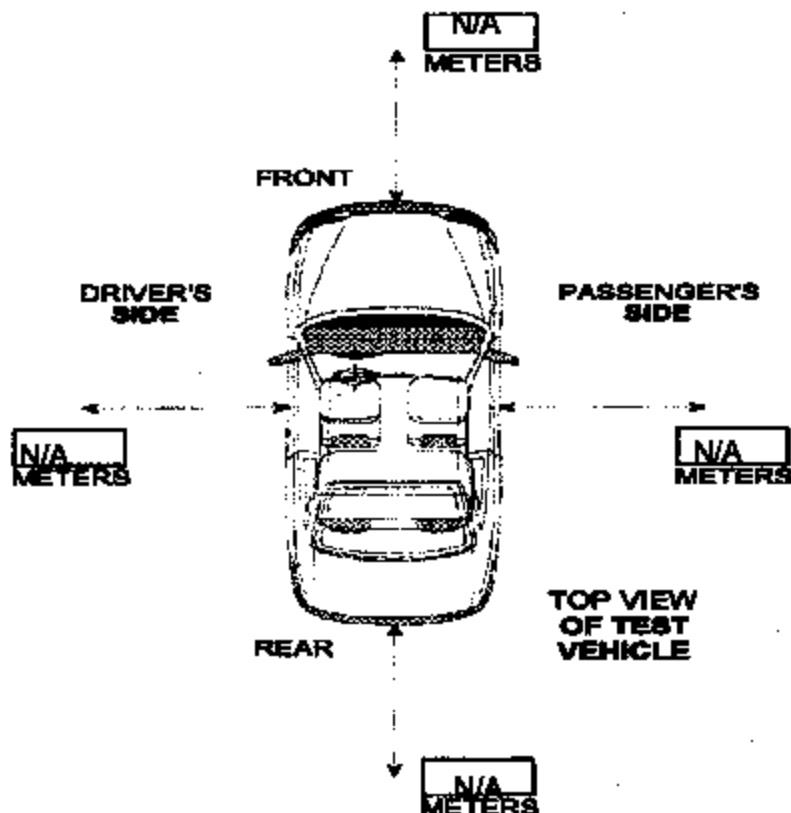
RECORDED BY: MATTHEW A. IVORY
APPROVED BY: MICHAEL L. DUNLAP

DATE: 03/31/04
DATE: 03/31/04

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

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	G40502	VIN	KL5VJ52L34B098285
TEST DATE:	03/31/04		

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

DATE: 03/31/04

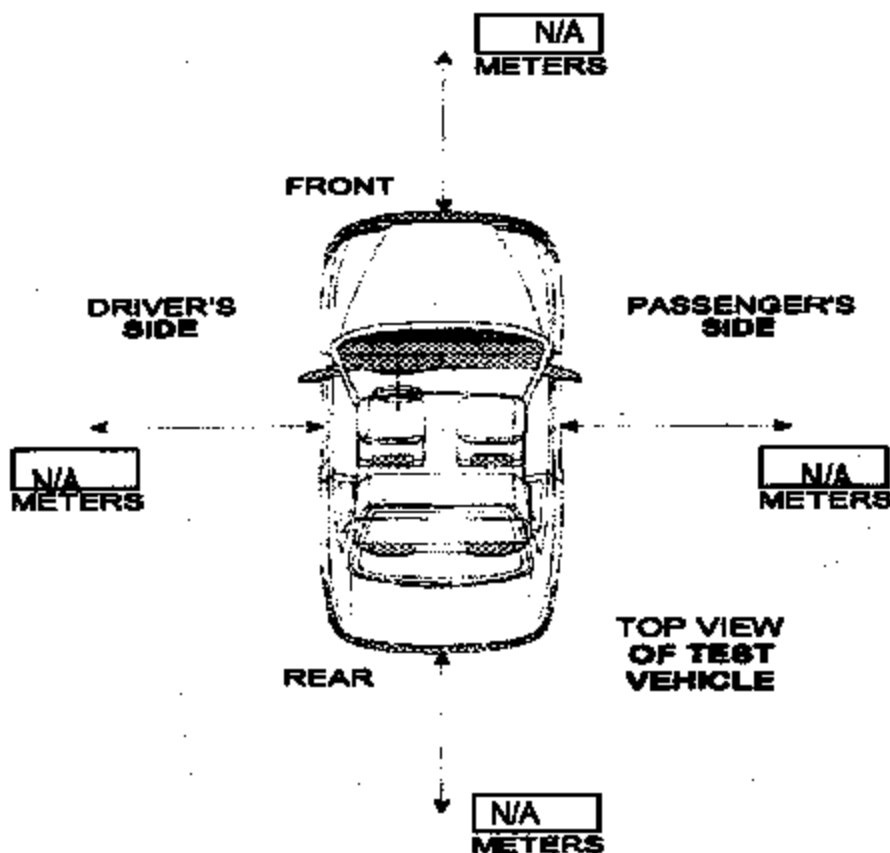
APPROVED BY: MICHAEL L. DUNLAP

DATE: 03/31/04

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

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	C40502	VIN	KL5VJ52L34B098285
TEST DATE:	03/31/04		

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: 03/31/04

APPROVED BY: MICHAEL L. DUNLAP

DATE: 03/31/04

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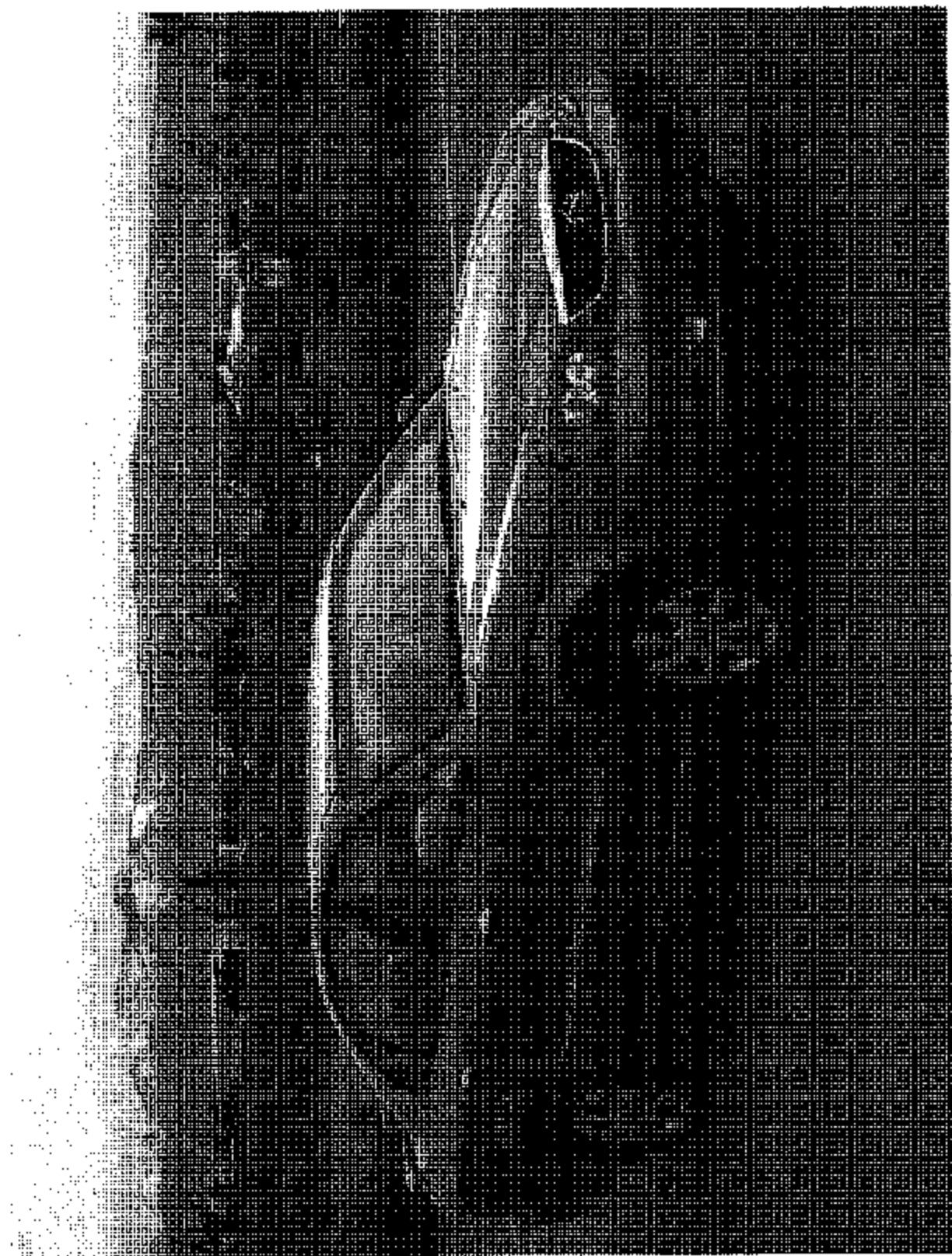


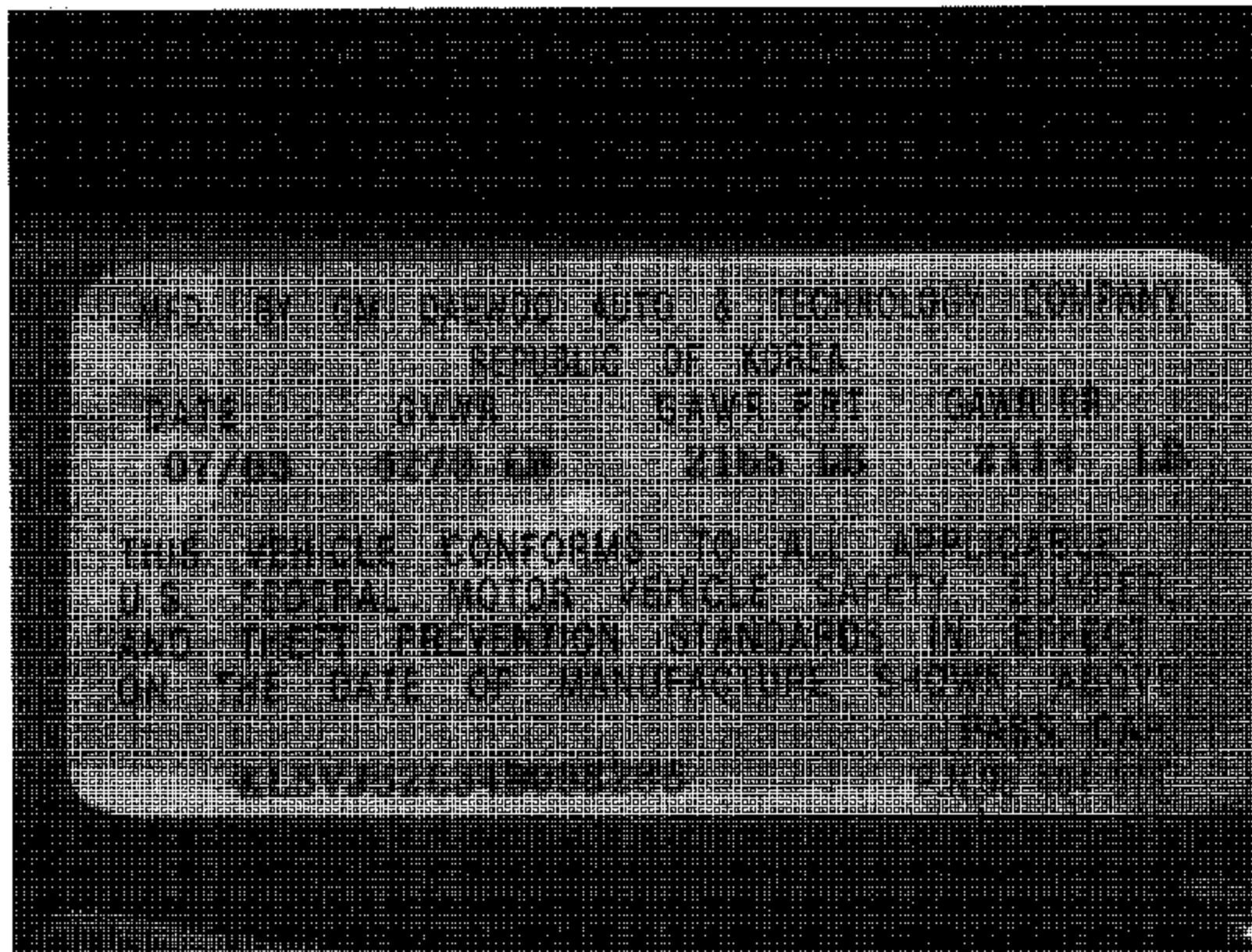
Figure 1: ¾ Frontal View From Right Side of Vehicle

2004 SUZUKI VERONA
NHTSA NO. C40502
FMVSS NO. 118



Figure 2: ¾ Rear View From Left Side of Vehicle

2004 SUZUKI VERONA
NHTSA NO. C40502
FMVSS NO. 118



2004 SUZUKI VERONA
NHTSA NO. C40502
FMVSS NO. 118

Figure 3: Vehicle Certification Label



SEATING CAPACITY TOTAL 5, FRONT 2, REAR 3

The combined weight of occupants and cargo should never exceed 1000 kg (2205 lbs).

ORIGINAL TIRE SIZE	COLD TIRE INFLATION PRESSURE	
P205/65 R15 92H	FRONT	210KPA, 30PSI
	REAR	210KPA, 30PSI
SPARE TIRE	COLD TIRE INFLATION PRESSURE	
P205/65R15 92H	210KPA, 30PSI	

1000 kg (2205 lbs)

2004 SUZUKI VERONA
NHTSA NO. C40502
FMVSS NO. 118

Figure 4: Tire Information Placard

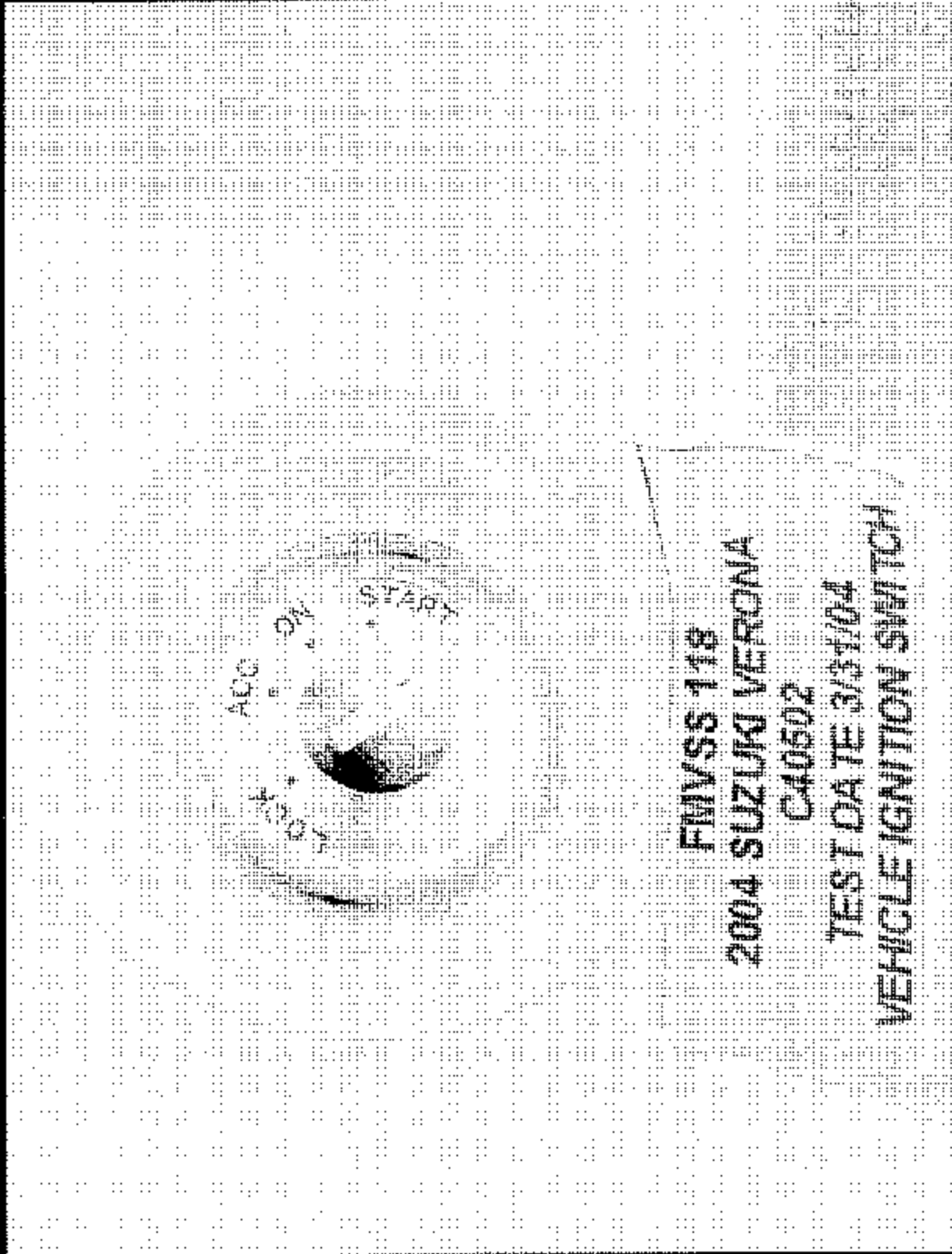


Figure 5: Ignition Switch

2004 SUZUKI VERONA
NHTSA NO. C40502
FMVSS NO. 118

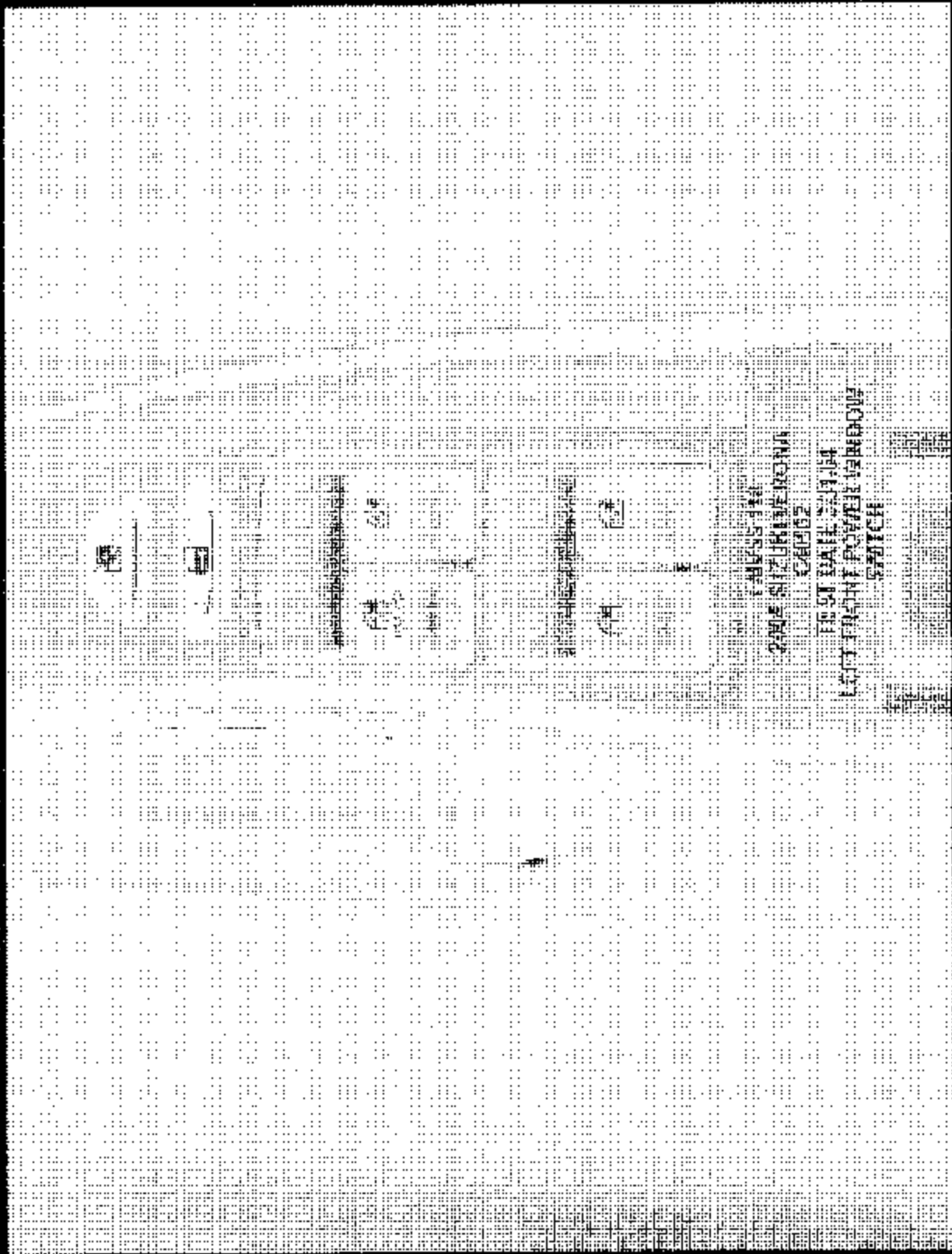


Figure 6: Left Front Master Power Window Switch

2004 SUZUKI VERONA
 NHTSA NO. C40502
 FMVSS NO. 118

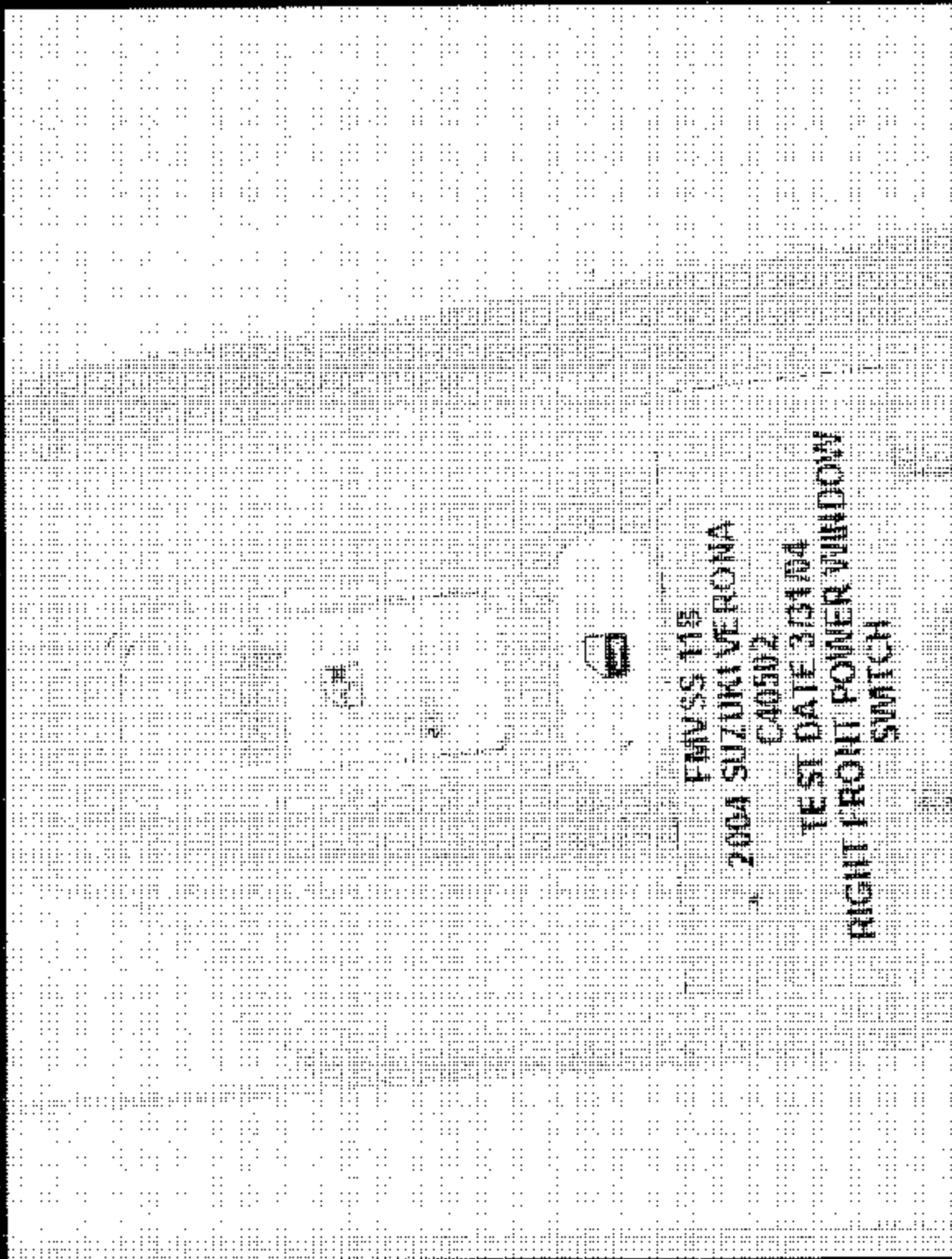


Figure 7: Right Front Power Window Switch

2004 SUZUKI VERONA
NHTSA NO. C40502
FMVSS NO. 118

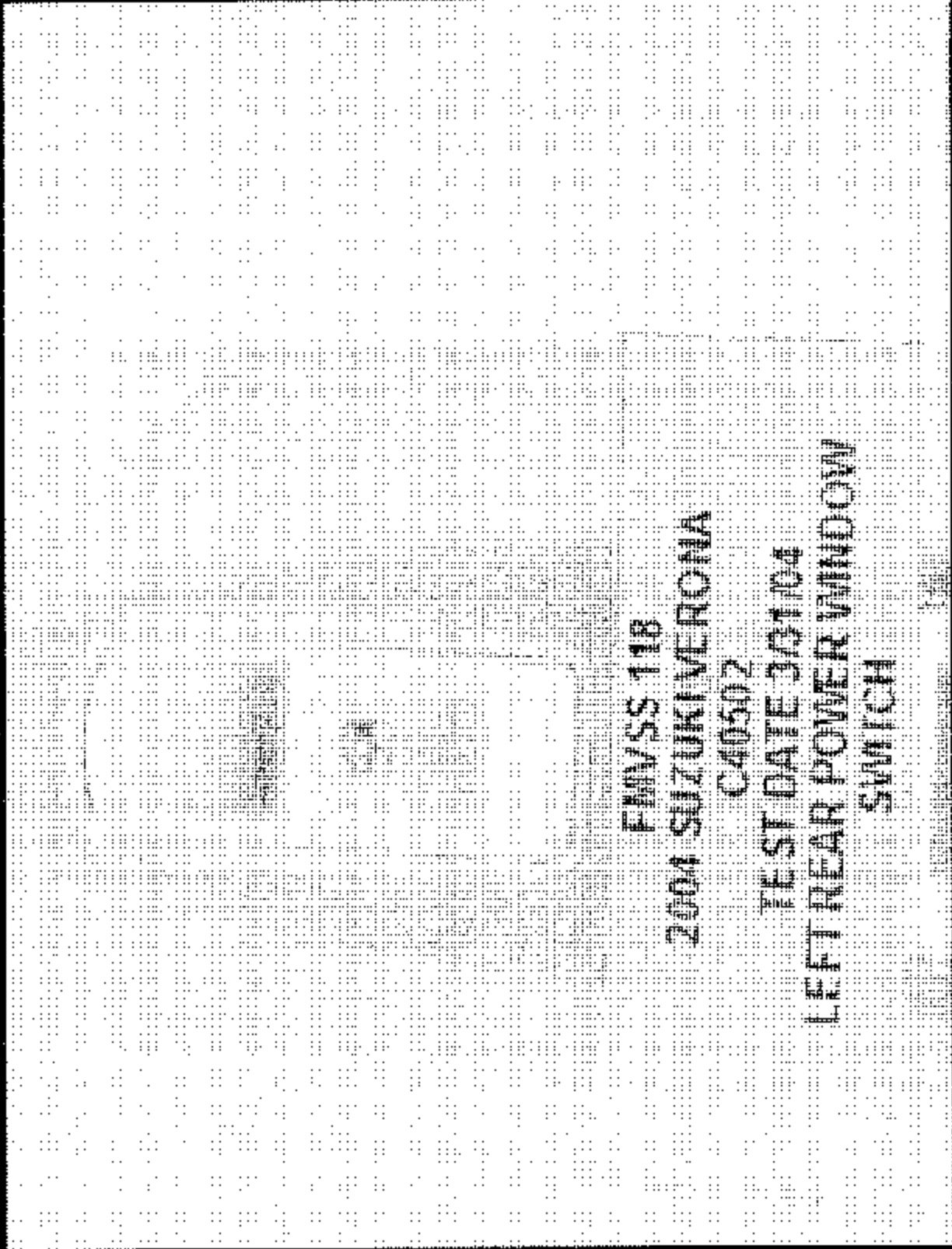


Figure 8: Left Rear Power Window Switch

2004 SUZUKI VERONA
NHTSA NO. C40502
FMVSS NO. 118

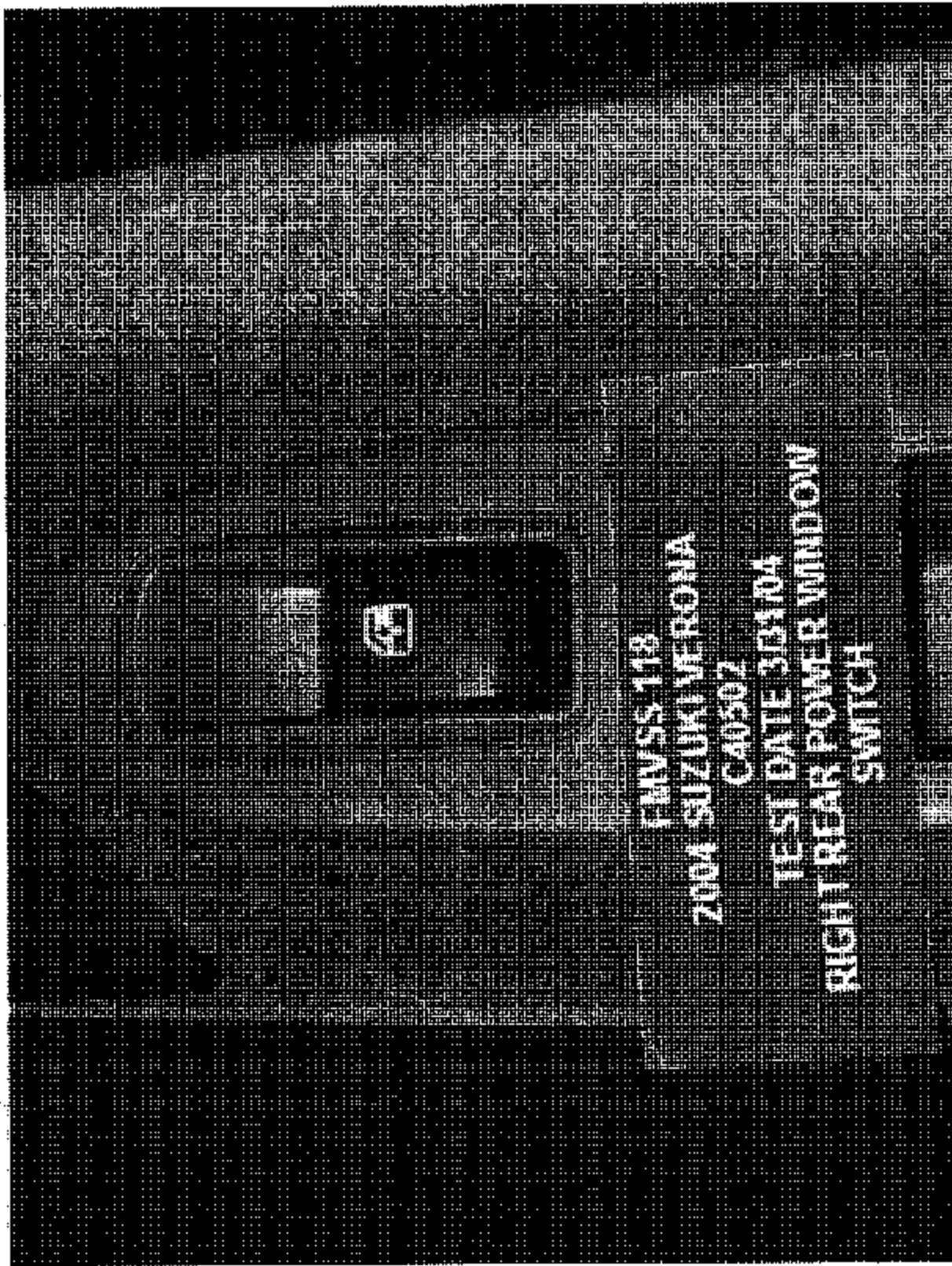


Figure 8: Right Rear Power Window Switch

2004 SUZUKI VERONA
NHTSA NO. C40502
FMVSS NO. 118

5. **COPY OF OWNER'S MANUAL INSTRUCTION FOR USE OF POWER WINDOWS**

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	C40502	VIN	KL5VJ52L34B098285
TEST DATE:	03/31/04		



2004

OWNER'S MANUAL

Keep With Vehicle At All Times.
Contains Important Information
On Safety, Operation & Maintenance.



COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	C40502	VIN	KL5VJ52L34B096285
TEST DATE:	03/31/04		

Starting and Operating Your Vehicle

New Vehicle Break-In

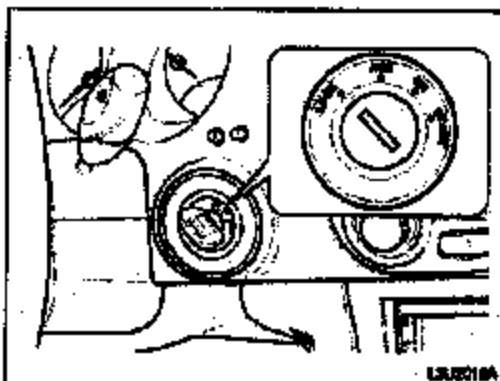
CAUTION

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

- Don't drive at any one speed – fast or slow – for the first 500 miles (805 km). Don't make full-throttle starts.
- Avoid making hard stops for the first 200 miles (322 km) or so. During this time your new brake linings aren't yet broken in. Hard stops with new linings can mean premature wear and earlier replacement. Follow this breaking-in guideline every time you get new brake linings.

Ignition Positions

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



LOCK (LOCK): This position locks your steering wheel, ignition, shift lever and transmission. This is the only position from which you can remove the key. You can turn the key to LOCK while the shift lever is in P (Park) position. You can't turn the key to LOCK when the shift lever is in any other position except P (Park).

For easier key operation when unlocking the steering wheel, move the steering wheel from right to left and turn the key to the ACC position.

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
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TEST DATE:	03/31/04		

ACC (ACCESSORY) : This position operates your electrical accessories.

ON (ON) : This is the position to which the switch returns after you start your engine and release the key. The switch stays in ON when the engine is running. But even when the engine is not running, you can use ON to operate your electrical accessories, and to display some instrument panel warning lights.

START (START) : This position starts the engine. When the engine starts, release the key. The ignition switch will return to ON for normal driving. Do not turn the key to START if the engine is running.

Even if the engine is not running, ACCESSORY and ON allow you to operate electrical accessories, such as the radio.

Starting Your Engine

Automatic Transmission

Move your shift lever to PARK (P) or NEUTRAL (N). Your engine won't start in any other position - this's a safety feature. To restart when you're already moving, use NEUTRAL (N) only.

Don't try to shift to PARK (P) if your vehicle is moving. If you do, you could damage the transmission. Shift to PARK (P) only when your vehicle is stopped.

Starting Your Engine

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

Holding your key in START for longer than 15 seconds at a time will cause your battery to be drained much sooner. And the excessive heat can damage your starter motor. Wait about 15 seconds between each try to help avoid draining your battery or damaging your starter.

2. If it doesn't start, wait about 15 seconds and try again to start the engine by

turning the ignition key to START. Wait about 15 seconds between each try. When your engine has run about 10 seconds to warm up, your vehicle is ready to be driven. Don't "race" your engine when it's cold. If the weather is below freezing (32°F or 0°C), let the engine run for a few minutes to warm up.

3. If your engine still won't start (or starts but then stops), it could be flooded with too much gasoline. Try pushing your accelerator pedal all the way to the floor and holding it there as you hold the key in START for about three seconds. If the vehicle starts briefly but then stops again, do the same thing, but this time keep the pedal down for five or six seconds. This clears the extra gasoline from the engine.

Your engine is designed to work with the electronics in your vehicle. If you add electrical parts or accessories, you could change the way the engine operates. Before adding electrical equipment, check with your dealer. If you don't, your engine might not perform properly.

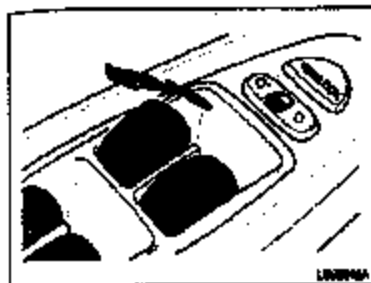
Engine Coolant Heater (If equipped)

If your vehicle has this feature, in very cold weather 0°F (-18°C) or colder, the engine coolant heater can help. You'll get easier

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	C40502	VIN	KL5VJ52L34B098285
TEST DATE:	03/31/04		

Power Windows



The power window switches on the driver's armrest control each of the power windows when the ignition is on. In addition, each passenger door has a control switch for its own window.

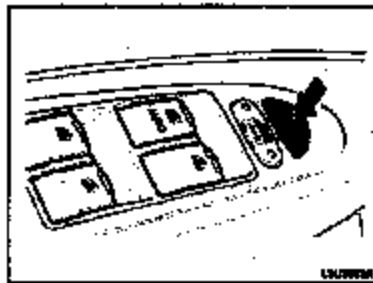
To lower a window, press and hold the switch till the window reaches the desired position. To raise the window, pull up and hold the switch till the window reaches the desired position.

Express Down Window

The driver's window switch also has an express-down feature. This switch is labeled AUTO. The driver's window can be opened to the desired position by pressing the switch to the first detent. To use the express-down feature, press the switch to the second detent then release it and the driver's window will continue going down until fully opened.

To stop the window while it is lowering, briefly push the switch down, then release it. To raise the window, pull up and hold the switch.

Window Lockout



The driver's power window controls also include a lockout button.

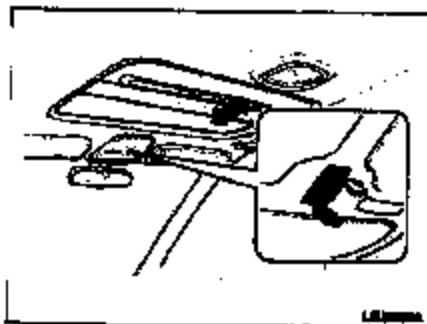
Press the lock-out button to stop the front and rear passengers from using their window switches. The driver can still operate all windows with the lock on. Press the lock-out button again to return to normal window operation.

COPY OF OWNER'S MANUAL INSTRUCTIONS FOR USE OF POWER WINDOWS

VEHICLE			
YEAR	2004	MAKE	Suzuki
MODEL	Verona	BODY STYLE	4 Door Sedan
NHTSA NO.	C40502	VIN	KL5VJ52L34B008285
TEST DATE:	03/31/04		

Sunroof

If your vehicle has this feature, the switch is located on the headliner between the sun visors. The sunroof will only operate when the ignition is in ON. The sunroof can be opened to a vent position or it can be express-opened all the way.



To open the sunroof to the vent position, push the front part of the switch. To return the sunroof to its original position, push the back part of the switch and hold it until the sunroof reaches the desired position.

To fully open the sunroof, push the rear part of the switch. The sunroof will open automatically until you push either the front or the rear part of the switch again. To close the sunroof, push the front part of the switch and hold it until the sunroof is closed. The sunroof will stop if the switch is released during operation.

In both the vent and fully open positions, the air flow can be adjusted for driving comfort by pushing and holding the switch until the sunroof moves to the desired position.

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

- Never allow any part of your body such as hands or head to stick out of the sunroof opening while the vehicle is moving.
- Be sure there are no hands or other obstructions in the path of the sunroof when you close the sunroof.
- Always remove the ignition key when leaving the vehicle even if a short time. Also do not leave children alone in a parked vehicle. Unattended children could use the sunroof switches and get trapped by the sunroof.

Do not put your body weight on the roof around the sunroof such as sitting on it.