2003 Montero Service Manual



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VOLUME 1 (00-13A)

VOLUME 2 (13B-26)

VOLUME 3 (27-52A)

VOLUME 4 (52B-54A)

VOLUME 5 (54B-90)

INDEX

Technical Information Manual

GROUP 42

BODY

CONTENTS

42-16 42-18 42-18 42-20
. 42-18
. 42-18
42-20
42-20
42-20
ЕМ
72-20
42-20
)R
. 42-20
. 42-20
. 42-21
. 42-21
42-24
42-25
. 42-26
IT 42-26
AND
CK 42-27
) IN
. 42-27

DOOD 400THD13/			
DOOR ASSEMBLY	42-28	BACK DOOR HANDLE AND LATCH	42-53
REMOVAL AND INSTALLATION	42-28	REMOVAL AND INSTALLATION	42-53
	42-29		
INSPECTION	42-29	INSPECTION	42-54
DOOR TRIM AND WATERPROOF		KEYLESS ENTRY SYSTEM	42-54
FILM	42-30	KETEEGG ENTKT GTGTEIII	72 04
REMOVAL AND INSTALLATION	42-30	GENERAL DESCRIPTION	42-54
INSPECTION	42-36	CENERAL DECORNI FICHT	72-07
		KEYLESS ENTRY SYSTEM	
DOOR GLASS AND REGULATOR	42-37	DIAGNOSIS	42-54
REMOVAL AND INSTALLATION	42-37		
INSPECTION	42-39	SPECIAL TOOLS	42-55
DOOR HANDLE AND LATCH	42-40	ON-VEHICLE SERVICE	42-55
REMOVAL AND INSTALLATION	42-40	HOW TO REPLACE THE TRANSMITTER	
INSPECTION	42-41	BATTERY	42-55
WINDOW GLASS RUNCHANNEL		ENABLING/DISABLING THE ANSWERBA	
AND DOOR OPENING		FUNCTION	42-55
WEATHERSTRIP	42-44	SECRET CODE REGISTRATION	40.50
REMOVAL AND INSTALLATION		METHOD	42-56
<pre><front door=""></front></pre>	42-44	KEYLESS ENTRY SYSTEM REMOVAL AN INSTALLATION	עו 42-58
		INSTALLATION	42-00
BACK DOOR ASSEMBLY	42-47	SUNROOF ASSEMBLY	42-58
BACK DOOR DIAGNOSIS	42-47	CENEDAL DESCRIPTION	40 E0
BACK DOOR DIAGNOSIS	42-47	GENERAL DESCRIPTION	42-58
INTRODUCTION TO BACK DOOR			
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47	GENERAL DESCRIPTION SUNROOF DIAGNOSIS	42-58 42-58
INTRODUCTION TO BACK DOOR			
INTRODUCTION TO BACK DOOR DIAGNOSISBACK DOOR DIAGNOSTIC	42-47	SUNROOF DIAGNOSIS	42-58
INTRODUCTION TO BACK DOOR DIAGNOSISBACK DOOR DIAGNOSTIC TROUBLESHOOTING STRATEGY	42-47 42-47	SUNROOF DIAGNOSIS	42-58
INTRODUCTION TO BACK DOOR DIAGNOSISBACK DOOR DIAGNOSTIC TROUBLESHOOTING STRATEGY	42-47 42-47 42-47	SUNROOF DIAGNOSIS	42-58 42-58
INTRODUCTION TO BACK DOOR DIAGNOSISBACK DOOR DIAGNOSTIC TROUBLESHOOTING STRATEGY	42-47 42-47 42-47	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE	42-58 42-58 42-58
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-47 42-48 42-49	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST	42-58 42-58 42-58 42-58
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-48	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST	42-58 42-58 42-58 42-58 42-59
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-47 42-48 42-49	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST	42-58 42-58 42-58 42-58 42-59
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-47 42-48 42-49	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST	42-58 42-58 42-58 42-58 42-59 42-59
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-48 42-49 42-49 42-49 42-49	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST SUNROOF FIT ADJUSTMENT OPERATION CHECK SUNROOF ASSEMBLY	42-58 42-58 42-58 42-59 42-59 42-61
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-48 42-49 42-49 42-49 42-49 42-50	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE	42-58 42-58 42-58 42-59 42-59 42-61 42-61
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-48 42-49 42-49 42-49 42-49 42-50 42-50	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST	42-58 42-58 42-58 42-59 42-59 42-61 42-61 42-64
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-48 42-49 42-49 42-49 42-49 42-50	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST	42-58 42-58 42-58 42-59 42-59 42-61 42-61 42-64
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-48 42-49 42-49 42-49 42-49 42-50 42-50 42-51	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST SUNROOF FIT ADJUSTMENT OPERATION CHECK SUNROOF ASSEMBLY REMOVAL AND INSTALLATION INSPECTION DISASSEMBLY AND ASSEMBLY SPECIFICATIONS FASTENER TIGHTENING	42-58 42-58 42-58 42-59 42-59 42-61 42-64 42-65 42-68
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-48 42-49 42-49 42-49 42-50 42-50 42-51	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST SUNROOF FIT ADJUSTMENT OPERATION CHECK SUNROOF ASSEMBLY REMOVAL AND INSTALLATION INSPECTION DISASSEMBLY AND ASSEMBLY SPECIFICATIONS FASTENER TIGHTENING SPECIFICATIONS	42-58 42-58 42-58 42-59 42-59 42-61 42-64 42-65 42-68
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-48 42-49 42-49 42-49 42-50 42-50 42-51 ROOF 42-52	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST SUNROOF FIT ADJUSTMENT OPERATION CHECK SUNROOF ASSEMBLY REMOVAL AND INSTALLATION INSPECTION DISASSEMBLY AND ASSEMBLY SPECIFICATIONS FASTENER TIGHTENING SPECIFICATIONS SERVICE SPECIFICATIONS	42-58 42-58 42-58 42-59 42-59 42-61 42-61 42-64 42-65 42-68 42-68
INTRODUCTION TO BACK DOOR DIAGNOSIS	42-47 42-47 42-48 42-49 42-49 42-49 42-50 42-50 42-51	SUNROOF DIAGNOSIS SPECIAL TOOLS ON-VEHICLE SERVICE WATER TEST SUNROOF FIT ADJUSTMENT OPERATION CHECK SUNROOF ASSEMBLY REMOVAL AND INSTALLATION INSPECTION DISASSEMBLY AND ASSEMBLY SPECIFICATIONS FASTENER TIGHTENING SPECIFICATIONS	42-58 42-58 42-58 42-59 42-59 42-61 42-64 42-65 42-68

HOOD

HOOD DIAGNOSIS

INTRODUCTION TO HOOD DIAGNOSIS

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Wind noise at the hood may be caused by improper hood adjustment.

HOOD DIAGNOSTIC TROUBLESHOOTING STRATEGY

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Use these steps to plan your diagnostic strategy. If you follow them carefully, you will be sure that you have exhausted most of the possible ways to find a hood fault.

1. Gather information from the customer.

- 2. Verify that the condition described by the customer exists.
- 3. Find the malfunction by following the Symptom Chart.
- 4. Verify malfunction is eliminated.

SYMPTOM CHART

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SYMPTOM	INSPECTION PROCEDURE	REFERENCE PAGE
Difficult locking and unlocking	1	P.42-3
Uneven body clearance	2	P.42-4
Uneven height	3	P.42-4

SYMPTOM PROCEDURES

INSPECTION PROCEDURE 1: Difficult Locking and Unlocking

DIAGNOSIS

STEP 1. Check the release cable routing condition.

Q: Is the release cable routing condition good?

YES: Go to Step 2.

NO: Repair the release cable, then go to Step 4.

STEP 2. Check the engagement of the hood latch and hood striker.

Q: Are the hood latch and hood striker engaged correctly?

YES: Go to Step 3.

NO: Adjust the hood latch (Refer to P.42-5).

Then go to Step 4.

STEP 3. Check for proper lubrication of release cable.

Q: Is the release cable properly lubricated?

YES: Go to Step 4.

NO: Lubricate, then go to Step 4.

STEP 4. Retest the system.

Q: Does the hood lock operate easily?

YES: The procedure is complete.

NO: Return to Step 1.

INSPECTION PROCEDURE 2: Uneven Body Clearance

DIAGNOSIS

STEP 1. Check the hood installation condition.

Q: Is the hood installation in good condition?

YES: Go to Step 2.

NO: Adjust the hood (Refer to P.42-5). Then go

to Step 2.

STEP 2. Retest the system.

Q: Is the clearance with the body even?

YES: The procedure is complete.

NO: Return to Step 1.

INSPECTION PROCEDURE 3: Uneven Height

DIAGNOSIS

STEP 1. Check the hood bumper height.

Q: Is the hood bumper height proper?

YES: Go to Step 2.

NO: Adjust the hood bumper (Refer to P.42-5).

Then go to Step2.

STEP 2. Retest the system.

Q: Are the hood and body height even?

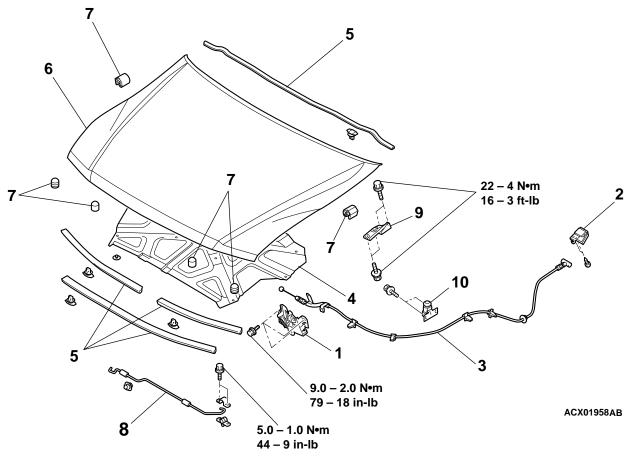
YES: The procedure is complete.

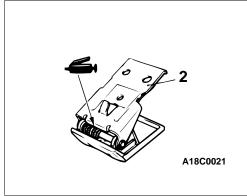
NO: Return to Step 1.

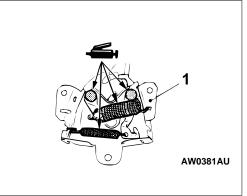
HOOD

REMOVAL AND INSTALLATION

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HOOD LATCH REMOVAL STEPS

- RADIATOR GRILL (REFER TO GROUP 51 – FRONT BUMPER P.51-3)
- 1. HOOD LATCH

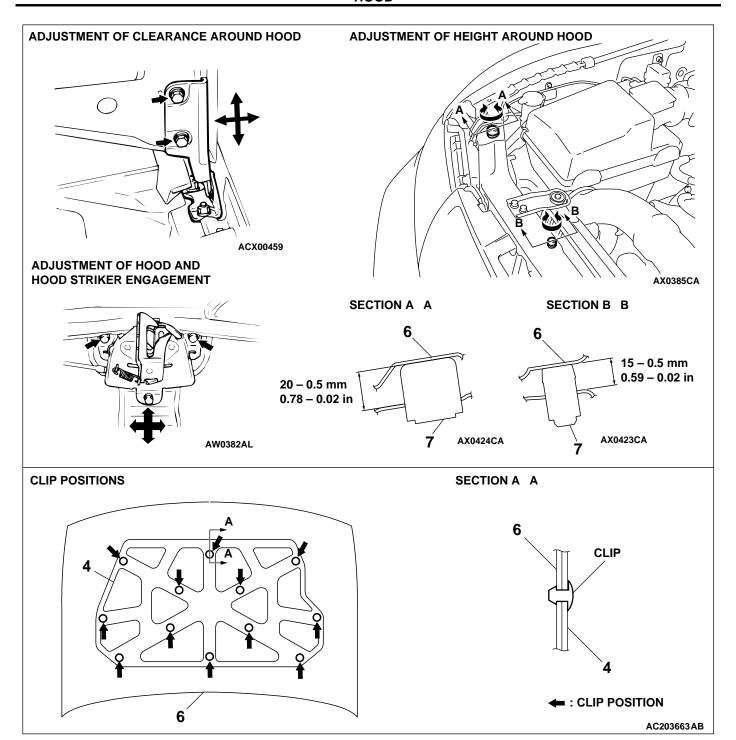
HOOD LOCK RELEASE CABLE REMOVAL STEPS

- 2. HOOD LOCK RELEASE HANDLE
- 3. HOOD LOCK RELEASE CABLE HOOD AND HOOD HINGE REMOVAL STEPS
- 4. HOOD INSULATOR
- 5. HOOD WEATHERSTRIP

HOOD AND HOOD HINGE REMOVAL STEPS (Continued)

- WASHER HOSE (REFER TO GROUP 51 – WINDSHIELD WIPER AND WASHER P.51-21)
- 6. HOOD
- 7. BUMPER A
- 8. HOOD SUPPORT ROD
- FRONT DECK GARNISH (REFER TO GROUP 51 – WINDSHIELD WIPER AND WASHER P.51-21)
- 9. HOOD HINGE
- 10. HOOD SWITCH

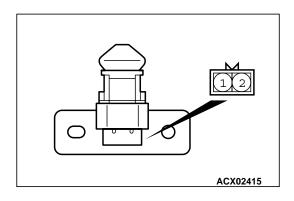
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INSPECTION

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HOOD SWITCH CONTINUITY CHECK < VEHICLES WITH THEFT-ALARM SYSTEM>



SWITCH POSITION	TESTER CONNECTION	SPECIFIED CONDITION
Hood switch unpressed	1 – 2	Less than 2 ohms
Hood switch depressed		Open circuit

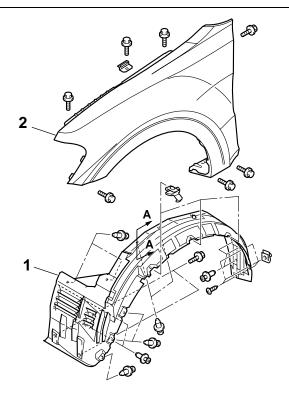
FENDER

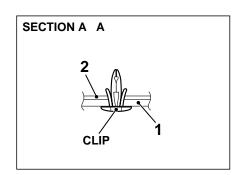
REMOVAL AND INSTALLATION

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Pre-removal and Post-installation Operation

- Front Bumper Removal and Installation (Refer to GROUP 51, Front Bumper P.51-3.)
- Front Mud Guard Removal and Installation (Refer to GROUP 51, Front Mud Guard P.51-16.)
- Front Wheel Cut Molding Removal and Installation (Refer to GROUP 51, Front Wheel Cut Molding P.51-9.)





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REMOVAL STEPS

- 1. SPLASH SHIELD
- 2. FENDER

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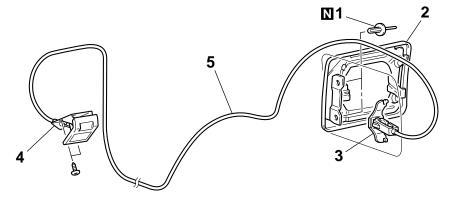
FUEL FILLER LID

REMOVAL AND INSTALLATION

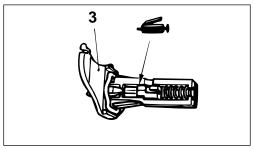
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Pre-removal and Post-installation Operation

- Quarter Trim Lower Removal and Installation (Refer to GROUP 52A, Trims P.52A-8.)
- Center Pillar Trim Lower Removal and Installation (Refer to GROUP 52A, Trims P.52A-8.)



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REMOVAL STEPS

<<A>>> >>A<< 1. RIVET

- 2. FUEL FILLER DOOR PANEL ASSEMBLY
- 3. FUEL FILLER DOOR HOOK **ASSEMBLY**
- 4. LID LOCK RELEASE HANDLE

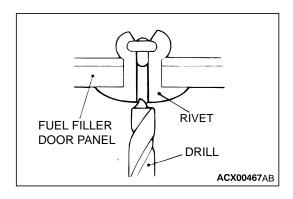
REMOVAL STEPS (Continued)

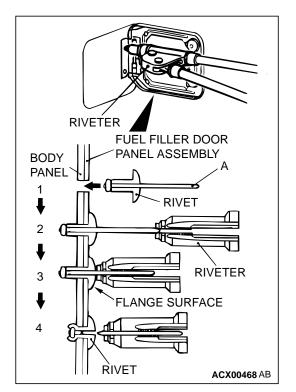
- INSTRUMENT LOWER PANAL (REFER TO GROUP 52A -**INSTRUMENT PANEL P.52A-2.)**
- 5. FUEL FILLER DOOR LOCK **RELEASE CABLE**

REMOVAL SERVICE POINT



Use a drill $[\phi 6.5 - 7.5 \text{ mm } (\phi 0.25 - 0.29 \text{ inch})]$ to break the rivet by drilling a hole, and remove the rivet.





INSTALLATION SERVICE POINT

>>A<< RIVET INSTALLATION

- 1. Insert the rivet [ϕ 6.4mm (ϕ 0.25 inch)] into the body panel and wide fender.
- 2. Insert the "A" side of the rivet into the riveter.
- 3. Pressing the flange surface of the rivet, move the handle of the riveter.
- 4. The thinnest point of "A" is cut and the rivet is held in the position.