

# HEATER, AIR CONDITIONING AND VENTILATION

## CONTENTS

### GENERAL INFORMATION

SAFETY PRECAUTIONS

### SERVICE SPECIFICATIONS

#### LUBRICANTS

#### SPECIAL TOOLS

#### AUTOMATIC AIR CONDITIONING

#### TROUBLESHOOTING

DIAGNOSIS FUNCTION

ERASING DIAGNOSIS CODES

INSPECTION CHART FOR DIAGNOSIS CODES

INSPECTION PROCEDURE FOR DIAGNOSIS CODES

INSPECTION CHART BY TROUBLE SYMPTOM

INSPECTION PROCEDURE FOR TROUBLE SYMPTOMS

### SERVICE DATA REFERENCE TABLE

### ACTUATOR TEST REFERENCE TABLE

### CHECK AT THE A/C-ECU TERMINALS

### MANUAL AIR CONDITIONING

TROUBLESHOOTING PROCEDURES

CHECK AT BELT LOCK CONTROLLER TERMINALS

### ON-VEHICLE SERVICE

SIGHT GLASS REFRIGERANT LEVEL TEST

MAGNETIC CLUTCH TEST

RECEIVER DRIER TEST

DUAL PRESSURE SWITCH CHECK

COMPRESSOR DRIVE BELT ADJUSTMENT

CHARGING

## WARNINGS REGARDING SERVICING OF SUPPLEMENTAL RESTRAINT SYSTEM (SRS) EQUIPPED VEHICLES

### WARNING!

- (1) Improper service or maintenance of any component of the SRS, or any SRS-related component, can lead to personal injury or death to service personnel (from inadvertent firing of the air bag) or to the driver and passenger (from rendering the SRS inoperative).
- (2) If it is possible that the SRS components are subjected to heat over 93°C in baking or drying after painting, remove the SRS components (air bag module and SRS-ECU) beforehand.
- (3) Service or maintenance of any SRS component or SRS-related component must be performed only at an authorised MITSUBISHI dealer.
- (4) MITSUBISHI dealer personnel must thoroughly review this manual, and especially its GROUP 52B – Supplemental Restraint System (SRS) and GROUP 00 – Maintenance Service before beginning any service or maintenance of any component of the SRS or any SRS-related component.

### NOTE

Section titles with the asterisk (\*) in the table of contents in each group indicate operations requiring warnings.

PERFORMANCE TEST	REMOVAL SERVICE POINTS
REFRIGERANT LEAK REPAIR	INSTALLATION SERVICE POINT
COMPRESSOR NOISE CHECK	INSPECTION
POWER RELAY CHECK	DISASSEMBLY AND REASSEMBLY
IDLE-UP OPERATION CHECK	DISASSEMBLY SERVICE POINTS
<b>MANUAL AIR CONDITIONING, HEATER UNIT, HEATER CORE BLOWER ASSEMBLY AND COOLING UNIT</b>	REASSEMBLY SERVICE POINTS
REMOVAL AND INSTALLATION	INSPECTION
REMOVAL SERVICE POINTS	<b>REFRIGERANT LINE</b>
INSPECTION	REMOVAL AND INSTALLATION
<b>BLOWER MOTOR ASSEMBLY</b>	INSTALLATION SERVICE POINT
REMOVAL AND INSTALLATION	<b>CONDENSER AND CONDENSER FAN MOTOR</b>
INSPECTION	REMOVAL AND INSTALLATION
<b>AIR CONDITIONING CONTROLS</b>	INSTALLATION SERVICE POINT
REMOVAL AND INSTALLATION	INSPECTION
<b>AUTOMATIC AIR CONDITIONING, HEATER UNIT, HEATER CORE, BLOWER ASSEMBLY AND COOLING UNIT</b>	<b>SENSORS</b>
REMOVAL AND INSTALLATION	PHOTO SENSORS
REMOVAL SERVICE POINTS	REMOVAL AND INSTALLATION
INSPECTION	INSPECTION
<b>BLOWER MOTOR ASSEMBLY</b>	<b>OUTSIDE AIR TEMPERATURE SENSOR</b>
REMOVAL AND INSTALLATION	REMOVAL AND INSTALLATION
<b>AIR CONDITIONING CONTROL UNIT ASSEMBLY</b>	INSPECTION
REMOVAL AND INSTALLATION	<b>HEATER WATER TEMPERATURE SENSOR</b>
INSPECTION	REMOVAL AND INSTALLATION
<b>DAMPER CONTROL MOTOR ASSEMBLY AND POWER TRANSISTOR</b>	REMOVAL SERVICE POINTS
REMOVAL AND INSTALLATION	INSTALLATION SERVICE POINT
INSPECTION	INSPECTION
<b>COMPRESSOR AND TENSION PULLEY</b>	<b>VENTILATORS</b>
REMOVAL AND INSTALLATION	REMOVAL AND INSTALLATION
	<b>VENTILATORS (AIR OUTLET)</b>
	REMOVAL AND INSTALLATION