

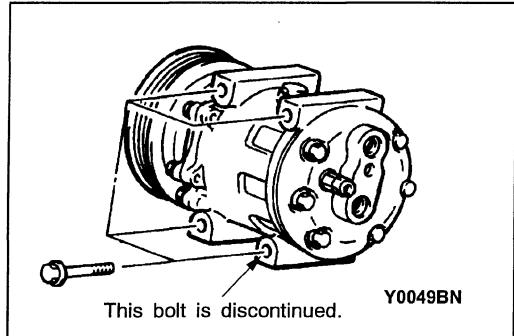
GROUP 55

HEATER, AIR CONDITIONER AND VENTILATION

GENERAL

OUTLINE OF CHANGES

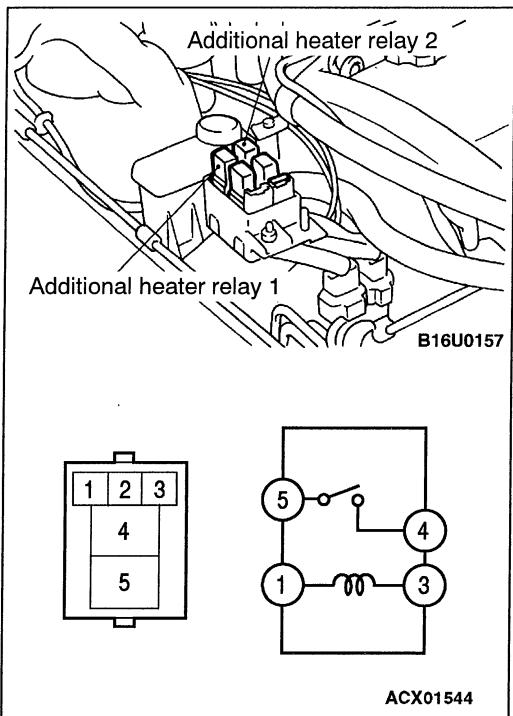
- The service specifications and procedures have been added due to the introduction of an additional heater <Diesel-powered vehicles>.
- The removal and installation procedure for the refrigerant lines have been changed due to the change on the diesel engine <Diesel-powered vehicles>.
- To improve heating performance, an inside air mix damper has been added to the inside/outside air changeover damper in the blower assembly <Diesel-powered vehicles>.



- One of the compressor mounting bolt has been discontinued <Diesel-powered vehicles>.

SERVICE SPECIFICATION

Item	Standard value
Additional heater resistance Ω <Diesel-powered vehicles>	0.45 ± 0.05 (at 20°C)

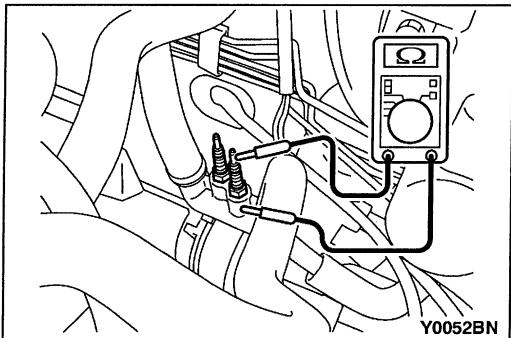


ADDITIONAL HEATER <Diesel-powered Vehicles>

ON-VEHICLE SERVICES

ADDITIONAL HEATER RELAY (1 AND 2) CHECK

Battery voltage	Terminal No.			
	1	3	4	5
Supplied	⊕	⊖		⊖
Not supplied	⊖	⊖		

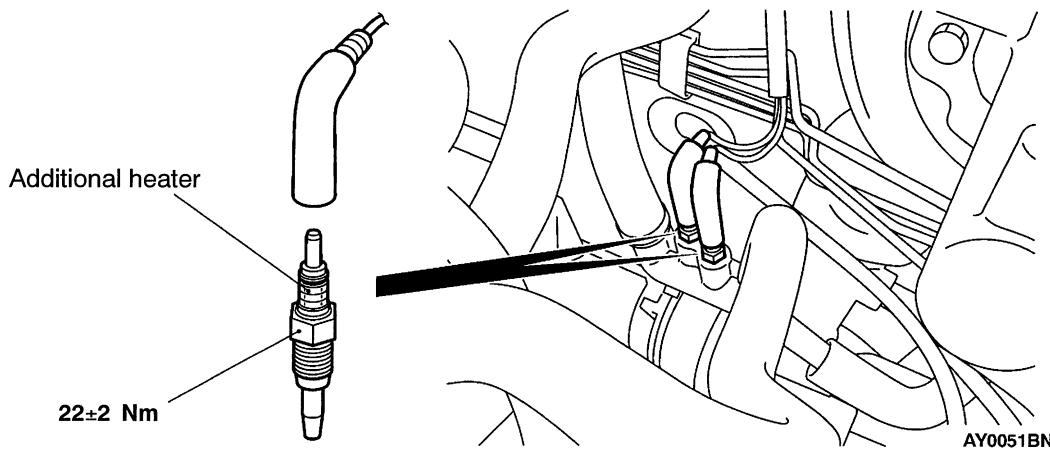


ADDITIONAL HEATER CHECK

Measure the resistance between the additional heater terminal and the body.

Standard value: $0.45 \pm 0.05 \Omega$ (at 20°C)

REMOVAL AND INSTALLATION

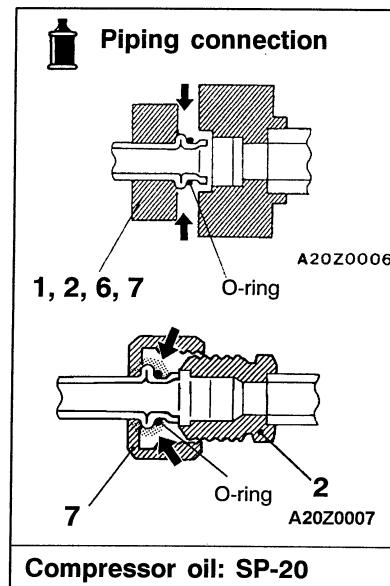
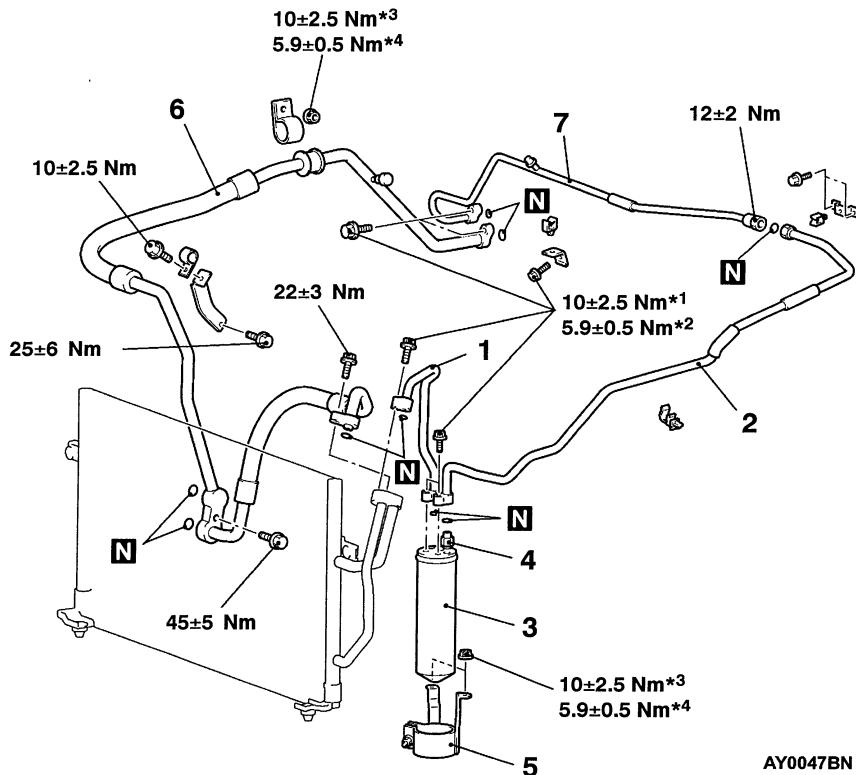


REFRIGERANT LINE <Diesel-powered Vehicles>

REMOVAL AND INSTALLATION

<L.H. Drive Vehicles>

Pre-removal Operation
Discharging and charging of refrigerant



Removal steps

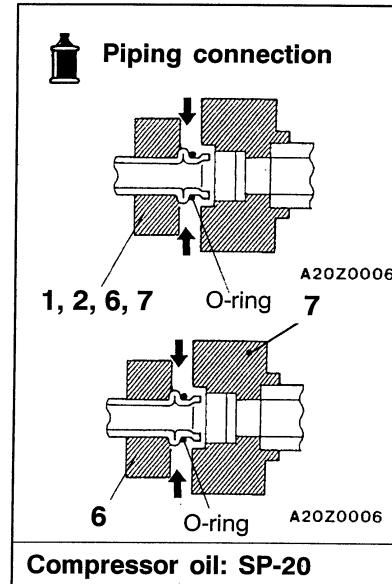
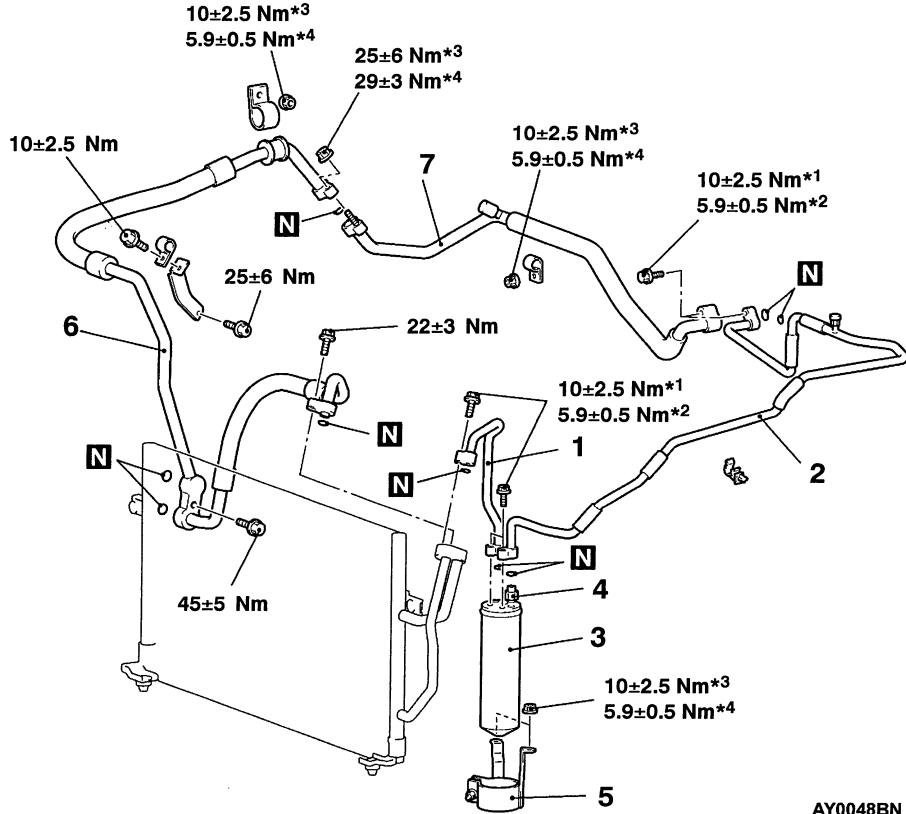
- A ◀ 1. Liquid pipe A
- 2. Liquid pipe B
- 3. Receiver assembly
- 4. Dual pressure switch
- 5. Receiver bracket
- A ◀ 6. A/C flexible hose assembly
- 7. Liquid pipe C

NOTE

1. \ast^1 : indicates flange bolt
2. \ast^2 : indicates bolt and washer assembly
3. \ast^3 : indicates flange nut
4. \ast^4 : indicates nut and washer assembly

<R.H. Drive Vehicles>

Pre-removal Operation
Discharging and charging of refrigerant

**Removal steps**

- A◀ 1. Liquid pipe A
- A◀ 2. Liquid pipe B
- A◀ 3. Receiver assembly
- A◀ 4. Dual pressure switch
- A◀ 5. Receiver bracket
- A◀ 6. A/C flexible hose assembly
- A◀ 7. Suction pipe assembly

NOTE

1. *¹: indicates flange bolt
2. *²: indicates bolt and washer assembly
3. *³: indicates flange nut
4. *⁴: indicates nut and washer assembly

INSTALLATION SERVICE POINT**►A◀ A/C FLEXIBLE HOSE ASSEMBLY/RECEIVER ASSEMBLY INSTALLATION**

When replacing the A/C flexible hose assembly or receiver assembly, refill them with a specified amount of compressor oil, and then install them.

Compressor oil: SP-20

Quantity:

A/C flexible hose assembly: 10 mL
Receiver assembly: 10 mL