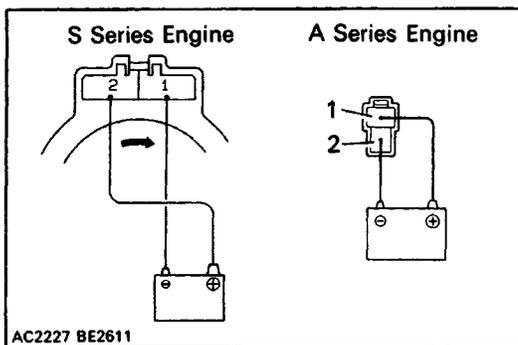


## ON-VEHICLE INSPECTION

- 1. INSPECT HOSES AND TUBES FOR LEAKAGE**  
Use a gas leak detector. Replace, if necessary.
- 2. CHECK THAT HOSE AND TUBE CLAMPS ARE NOT LOOSE**  
Tighten or replace as necessary.

## REPLACEMENT OF REFRIGERANT LINES

- 1. RECOVER REFRIGERANT FROM REFRIGERATION SYSTEM**
- 2. REPLACE FAULTY TUBE OR HOSE**  
HINT: Cap the open fitting immediately to keep moisture out of the system.
- 3. TIGHTENING TORQUE FOR O-RING FITTINGS AND BOLTED TYPE FITTINGS**
- 4. EVACUATE AIR FROM AIR CONDITIONING SYSTEM**
- 5. CHARGE AIR CONDITIONING SYSTEM WITH REFRIGERANT AND CHECK ON GAS LEAKAGE**  
Specified amount:  $720 \pm 50$  g ( $25.4 \pm 1.8$  oz)



## MOTORS

### INSPECTION OF BLOWER MOTOR

#### INSPECT BLOWER MOTOR

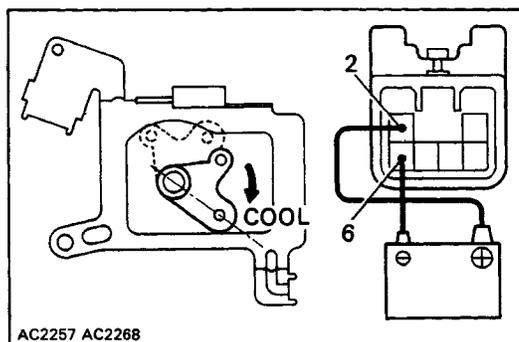
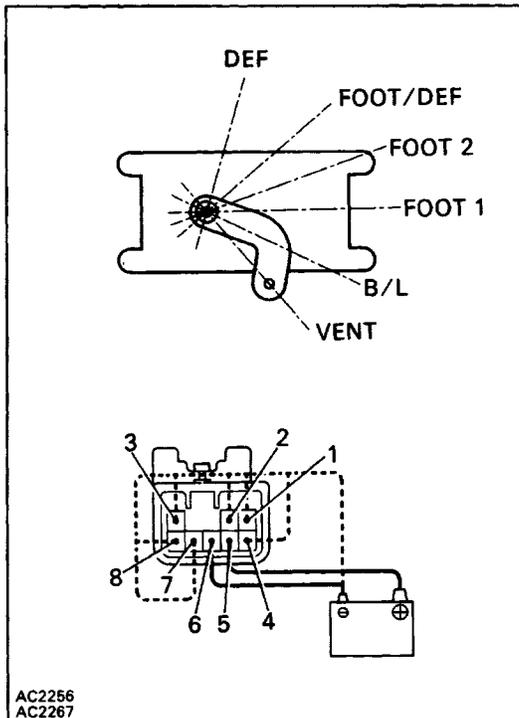
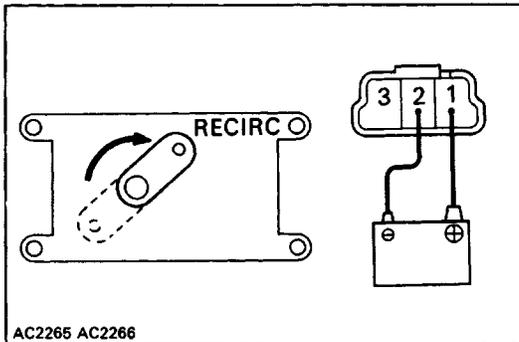
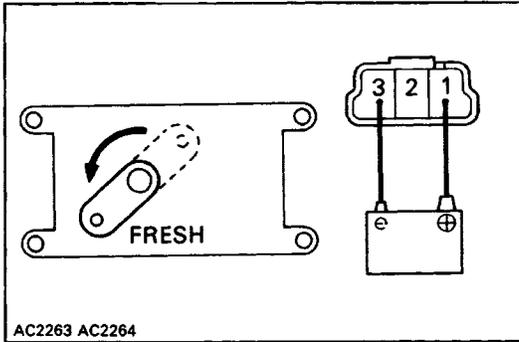
##### (S SERIES ENGINE)

Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 1, then check that the motor operation is smooth.

##### (A Series Engine)

Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, then check that the motor operation is smooth.

If operation is not as specified, replace the blower motor.



## INSPECTION OF SERVOMOTORS

### 1. INSPECT AIR INLET CONTROL SERVOMOTOR

(a) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 3, check that the arm rotates to the "FRESH" side smoothly.

(b) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, check that the arm rotates to the "RECIRC" side smoothly.

If operation is not as specified, replace the servo motor.

### 2. INSPECT MODE CONTROL SERVOMOTOR

(a) Connect the positive (+) lead from the battery to terminal 5 and the negative (-) lead to terminal 6.

(b) Connect the negative (-) lead from the battery to each terminal and check that the arm rotates to each position as shown below.

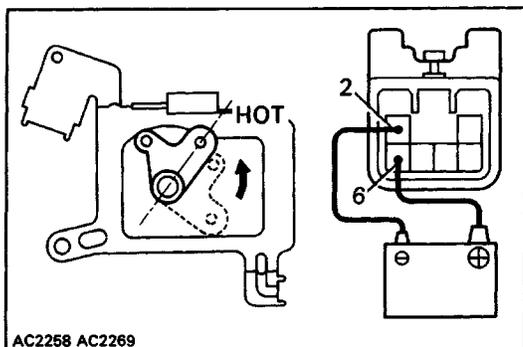
Connected terminal	Position
1	VENT
2	B/L
3	FOOT 2
4	FOOT/DEF
7	DEF
8	FOOT 1

If operation is not as specified, replace the servomotor.

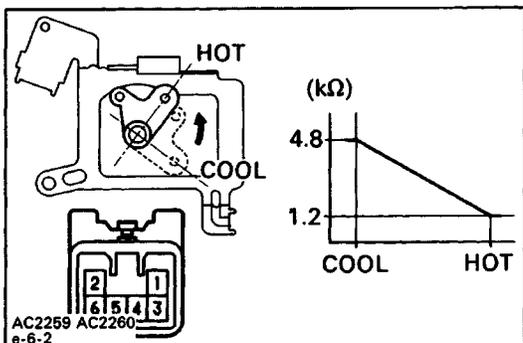
### 3. INSPECT AIR MIX CONTROL SERVOMOTOR

#### (Motor Operation)

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 6, check that the lever moves smoothly from HOT to COOL.



AC2258 AC2269

AC2259 AC2260  
e-6-2

- (b) Connect the positive (+) lead from the battery to terminal 5 and the negative (-) lead to terminal 2, check that the lever moves smoothly from COOL to HOT.

If operation is not as specified, replace the motor.

#### (Position Sensor Operation)

- (a) Measure the resistance between terminals 1 and 3.

**Resistance: Approx. 6 kΩ**

- (b) Set the arm to COOL position.  
 (c) Check that the resistance between terminals 1 and 4 decreases from approx. 4.8 kΩ to 1.2 kΩ, when the arm is rotated from COOL to HOT position.

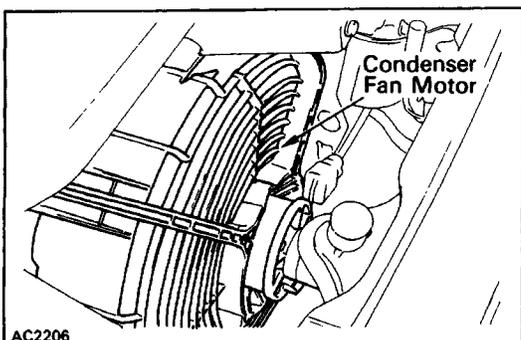
If operation is not as specified, replace the motor.

## INSPECTION OF RADIATOR FAN MOTOR AND CONDENSER FAN MOTOR

### 1. INSPECT RADIATOR FAN AND CONDENSER FAN SYSTEM OPERATION

HINT: The fan motor operate at two speeds depending on the engine coolant temperature and the A/C switch.

A/C Switch	Magnetic Clutch	Engine Coolant Temperature	Fan Motor Speed
OFF Or ON	OFF	90°C (194°F) or below	Off
		90°C (194°F) or above	High
ON	ON	90°C (194°F) or below	Low
		90°C (194°F) or above or the refrigerant pressure is approx. 15.5 kg/cm <sup>2</sup> (220 psi, 1,520 kPa) or greater	High



AC2206

### 2. INSPECT FAN MOTORS

- (a) Disconnect 2 pins connector of the fan motor.  
 (b) Using the wire harness, apply battery voltage to the connector.  
 (c) Confirm smooth rotation of the motor within the specified current flow.

**Standard current: 6.7 ± 0.7 A**

If current is not as specified, replace the motor.