COMPRESSOR AND MAGNETIC CLUTCH

ON-VEHICLE INSPECTION

AC1SS-01

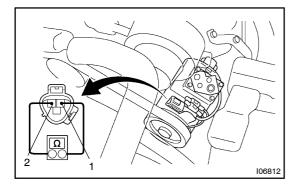
1. INSPECT COMPRESSOR FOR METALLIC SOUND

Check there is abnormal metallic sound from the compressor when the A/C switch is ON.

If abnormal metallic sound is heard, replace the compressor assembly.

- 2. INSPECT REFRIGERANT PRESSURE (See page AC-3)
- 3. INSPECT VISUALLY FOR LEAKAGE OF REFRIGER-ANT

Using a gas leak detector, check for leakage of refrigerant. If there is any leakage, replace the compressor assembly.



4.2UZ -FE Engine Models:

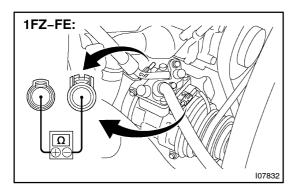
INSPECT COMPRESSOR LOCK SENSOR RESISTANCE

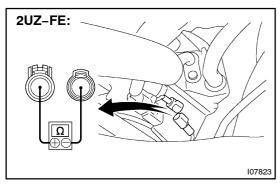
- (a) Disconnect the connector.
- (b) Measure resistance between terminals 1 and 2.

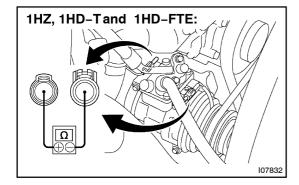
Standard resistance:

570 – 1,050 Ω at 20 °C (68 °F)

If resistance is not as specified, replace the compressor.







5. G.C.C. Countries: INSPECT REFRIGERANT TEMPERATURE SENSOR

- (a) Disconnect the connector.
- (b) Measure resistance between terminals.

Standard resistance:

Below 70 m Ω at 20 - 30° C (68 - 86° F)

Except 2UZ -FE:

If resistance is not as specified, replace the discharge cover with the sensor.

2UZ-FE:

If resistance is not as specified, replace the rear housing with the sensor.

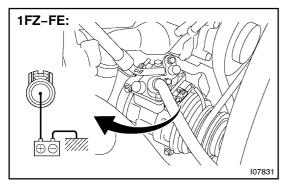
6. MAKE THESE VISUAL CHECKS:

- (a) Leakage of grease from the clutch bearing.
- (b) Signs of oil on the pressure plate or rotor.

7. INSPECT MAGNETIC CLUTCH BEARING FOR NOISE

- (a) Start engine.
- (b) Check for abnormal noise from the compressor when the A/C switch is OFF.

If abnormal noise is being emitted, replace the rotor of magnetic clutch.



8. INSPECT MAGNETIC CLUTCH OPERATION

- (a) Disconnect the connector.
- (b) Connect the positive (+) lead from the battery to terminal on the magnetic clutch connector and the negative (-) lead to the body ground.
- (c) Check that the magnetic clutch is energized. If operation is not as specified, replace the magnetic clutch.

