

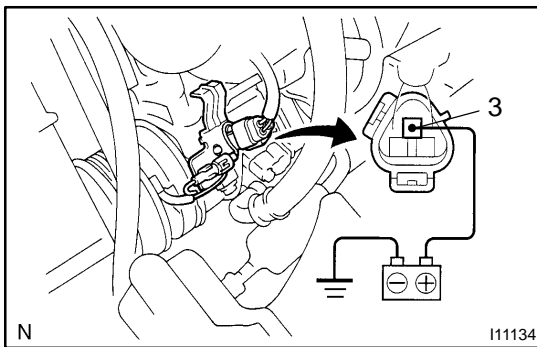
COMPRESSOR AND MAGNETIC CLUTCH (2UZ-FE)

ON-VEHICLE INSPECTION

AC3SJ-01

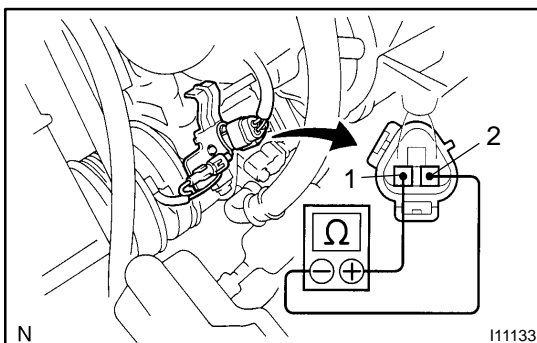
1. **SET MANIFOLD GAUGE SET** (See page [AC-20](#))
2. **START ENGINE**
3. **INSPECT COMPRESSOR FOR METALLIC SOUND**
Check if a metallic sound can be heard from the compressor when the A/C switch is on.
If a metallic sound cannot be heard, replace the compressor assembly.
4. **INSPECT REFRIGERANT PRESSURE**
(See page [AC-3](#))
5. **STOP ENGINE**
6. **INSPECT VISUALLY FOR LEAKAGE OF REFRIGERANT FROM SAFETY SEAL**
Using a gas leak detector, check for leakage of refrigerant.
If there is any leakage, replace the compressor assembly.
7. **REMOVE MANIFOLD GAUGE SET**
(See page [AC-22](#))
8. **CHECK FOR LEAKAGE OF GREASE FROM CLUTCH BEARING**
9. **CHECK FOR SIGNS OF OIL ON PRESSURE PLATE**
If necessary, repair or replace.
10. **INSPECT MAGNETIC CLUTCH BEARING FOR NOISE**
 - (a) Start the engine.
 - (b) Check if abnormal noise is heard from near the compressor when the A/C switch is OFF.

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



11. **INSPECT MAGNETIC CLUTCH OPERATION**
 - (a) Disconnect the connector.
 - (b) Connect the positive (+) lead from the battery to terminal 3 and the negative (-) lead to body ground.
 - (c) Check that the magnetic clutch is energized.

If operation is not as specified, replace the magnetic clutch.



12. **INSPECT COMPRESSOR LOCK SENSOR RESISTANCE**
 - (a) Disconnect the connector.
 - (b) Measure the resistance between terminals 1 and 2.
Standard resistance:
65 to 125 Ω at 20 °C (68 °F)

If resistance is not as specified, replace the compressor.