

3. OIL REPLACEMENT

After stabilization and discharge, replace the component, adding the appropriate amount of oil (DH-PR) to the new component before installation.

Evaporator	75 mℓ (2.5 US fl oz, 2.6 Imp fl oz)
Receiver drier	10 mℓ (0.34 US fl oz, 0.4 Imp fl oz)
Condenser	35 mℓ (1.2 US fl oz, 1.2 Imp fl oz)
Hose	1 mℓ (0.03 US fl oz, 0.04 Imp fl oz)

If the compressor is replaced (after stabilization):

- 1) Drain and measure the oil from the original compressor.
- 2) Drain the oil from the replacement compressor and refill with the same amount that was drained from the original [20 mℓ (0.7 US fl oz, 0.7 imp fl oz) minimum]. Always use DH-PR for the replacement oil.

10. Performance Test

1. VEHICLE SET UP

In order to obtain meaningful test results, the vehicle must be set up to meet the following conditions:

- 1) Vehicle in shade
- 2) No wind
- 3) All vehicle doors closed
- 4) Front windows open
- 5) Hood open
- 6) Engine speed set at 1,500 rpm.
- 7) A/C ON
- 8) Temperature control lever — Maximum cold
- 9) Air source — Recirculation
- 10) Blower speed — 4th position (High)
- 11) Operate A/C for 10 minutes (Minimum) before taking measurement.

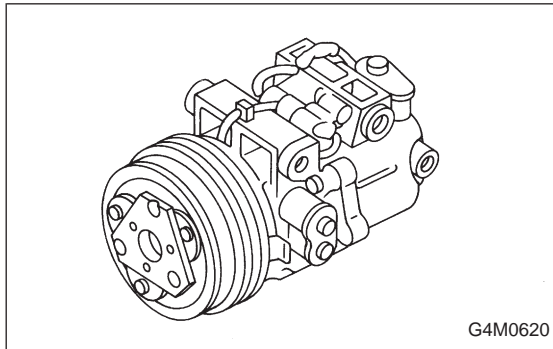
2. MEASUREMENTS

After 10 minutes (Minimum) of A/C operation and using accurate test equipment, take the following measurements (in order):

- 1) Evaporator intake air temperature at recirculation door.
- 2) Evaporator discharge air temperature at center grill.
- 3) Condenser (Ambient) intake air temperature measured 0.9 m (3 ft) in front and in line with the center of the condenser
- 4) Suction (Low) side pressure
- 5) Discharge (High) side pressure

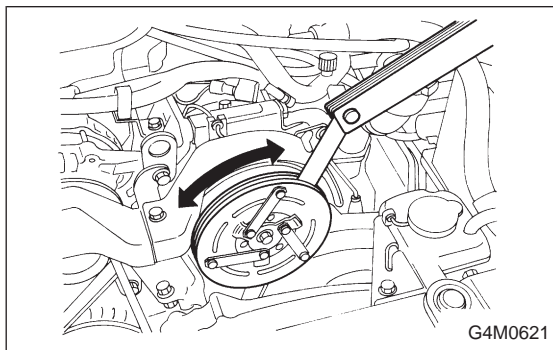
NOTE:

If only one thermometer is available; 1) take the ambient measurement first; then 2) the intake air; and 3) discharge air temperature.



11. Compressor

Compressor is a 5-vane rotary type. When trouble occurs, replace compressor as a single unit.



1. COMPRESSOR CLUTCH

Compressor clutch trouble is often caused by clutch slippage and noise. Check and take corrective measures, as required.

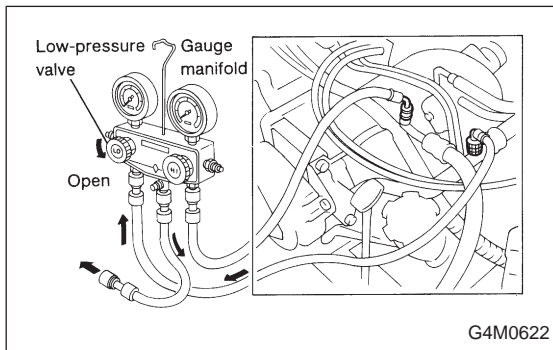
1) Check that clearance between drive plate and pulley over the entire perimeter is within specifications.

Clearance:

0.3 — 0.6 mm (0.012 — 0.024 in)

2) Check that voltage applied to magnetic coil is at least 10.5 volts.

3) When noise is noted, check that it originates in either compressor or pulley bearing.



A: REMOVAL

- 1) Disconnect ground cable from battery.
- 2) Discharge refrigerant using manifold gauge.
 - (1) Fully close low-pressure valve of manifold gauge.
 - (2) Connect low-pressure charging hose of manifold gauge to low-pressure service valve.
 - (3) Open low-pressure manifold gauge valve slightly, and slowly discharge refrigerant from system.