

6. Checking, disassembling, and servicing

6.1 Checking and adjusting

6.1.1 Compressor

6.1.1.1 Checking operation of magnetic clutch

1. Turn off the A/C switch after starting the engine.
2. Check whether abrasion or abnormal noise is heard when only the magnetic clutch pulley operates.
3. Check that the magnetic clutch (1) does not slip when the A/C switch and blower switch are turned on (when the air conditioner is in operation).



(1) Magnetic clutch

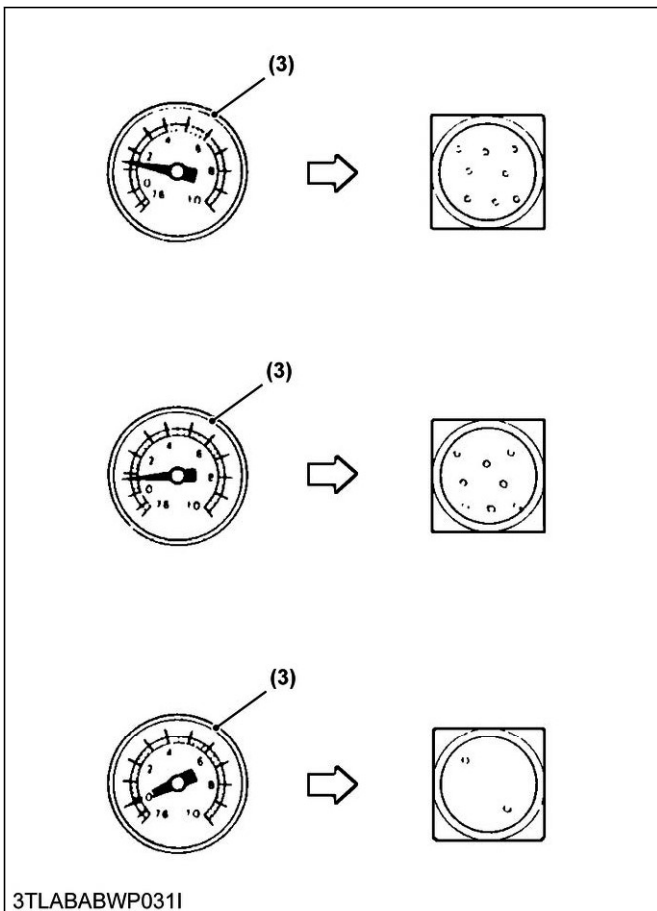
4. If anything abnormal is found, repair or replace.

6.1.1.2 Checking stator coil

1. Measure the resistance of the stator coil with an ohmmeter across the 1P connector (1) of magnetic clutch and compressor body.



(1) 1P connector



3TLABABWP0311

(3) HI pressure gauge

- **Insufficient refrigerant charge**

Air bubbles pass continuously the sight glass when pressure on the LO pressure side is over 99.0 kPa (1.01 kgf/cm², 14.4 psi). In this case, charge the refrigerant from the LO pressure side.

- **Properly refrigerant charge**

Air bubbles pass through the sight glass continuously when pressure on the LO pressure side is within 59 to 98 kPa (0.61 to 0.99 kgf/cm², 8.6 to 14 psi).

If the charge refrigerant amount is proper, no air bubble is observed on the sight glass at pressure on the LO pressure side over 99.0 kPa (1.01 kgf/cm², 14.4 psi) when the blower switch is turned on. When the blower switch is turned off, bubbles pass through the sight glass in case pressure on the LO pressure side is within 59 to 98 kPa (0.61 to 0.99 kgf/cm², 8.6 to 14 psi).

- **Excessive refrigerant charge**

Air bubbles pass through the sight glass time to time or no air bubble is observed when pressure on the LO pressure side is under 59 kPa (0.61 kgf/cm², 8.6 psi).

In this case, discharge excessive refrigerant gradually from the LO pressure side.