5518X–01

REPLACEMENT

1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM

(a) Turn the A/C switch on.

(b) Operate the A/C with the setting temperature at 25°C (77°F) and the blower level at LO for 10 minutes to circulate the refrigerant and collect compressor oil remaining in each component into the cooler compressor as much as possible.

(c) Stop the engine.

(d) Using SST, let the refrigerant gas out.

SST 07110–58060 (07117–58080, 07117–58090, 07117–78050, 07117–88060, 07117–88070, 07117–88080)

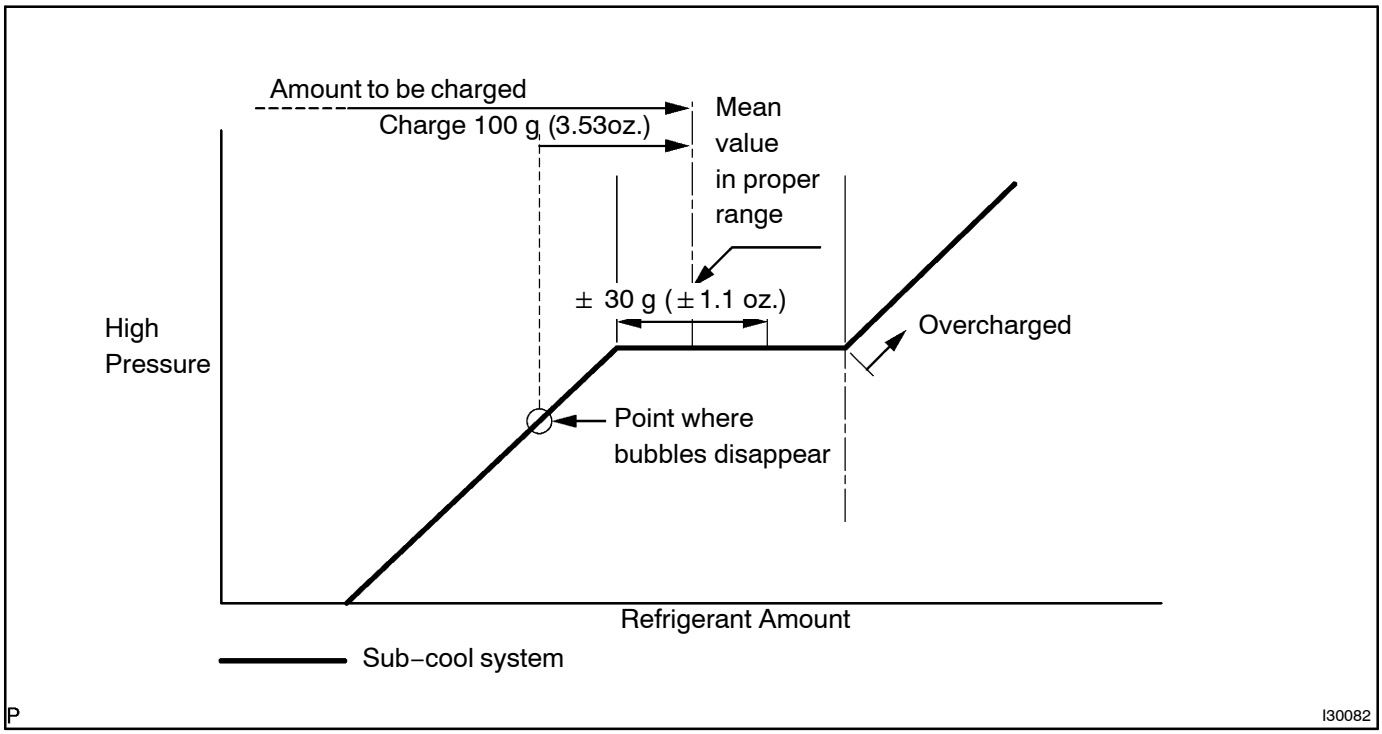
2. CHARGE REFRIGERANT

(a) Perform vacuum purging using a vacuum pump.

(b) Charge refrigerant HFC–134a (R134a).

Standard: 450 ± 30 g (15.9 ± 1.1 oz.)

SST 07110–58060 (07117–58060, 07117–58070, 07117–58080, 07117–58090, 07117–78050, 07117–88060, 07117–88070, 07117–88080)



NOTICE:

- **Do not turn the A/C on before charging with refrigerant as the cooler compressor doesn't work properly without any refrigerant, which causes the compressor to overheat.**
- **Approximately 100 g (3.53oz.) of refrigerant may need to be charged after bubbles disappear.The refrigerant amount should be checked by quantity, and not with the sight glass.**

HINT:

Prepare a service can to recharge the refrigerant if using the refrigerant gas collected with the freon collection/recycling device because the collective rate of the device is approximately 90 %.

3. WARM UP COMPRESSOR

(a) Turn the A/C switch on continuously for at least 1 minute to warm up the compressor.

NOTICE:

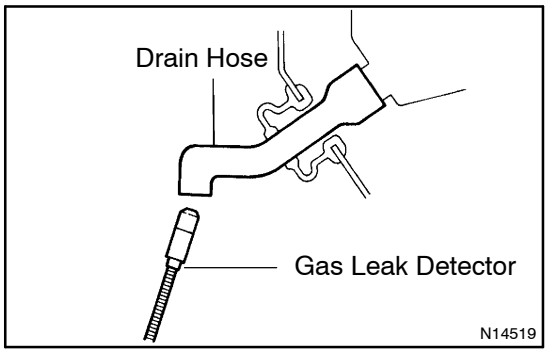
Be sure to warm up compressor when turning the A/C on after removing and installing the cooler refrigerant lines (including the compressor), to prevent damage to the compressor.

4. INSPECT LEAKAGE OF REFRIGERANT

(a) After recharging the refrigerant gas, inspect leakage of refrigerant gas using a halogen leak detector.

(b) Perform in these conditions:

- Power switch off.
- Secure good ventilation (the gas leak detector may not react to volatile gases which are not refrigerant, such as evaporated gasoline and exhaust gas).
- Repeat the test 2 or 3 times.
- Make sure that there is some refrigerant remaining in the refrigeration system.
  When compressor is off: approx. 392 to 588 kPa (4 to 6 kgf/cm^2, 57 to 85 psi)



(c) Bring the gas leak detector close to the drain hose with the detector's power off.

HINT:

- After the blower motor has stopped, leave the cooling unit for more than 15 minutes.
- Expose the gas leak detector sensor under the drain hose.
- When bringing the gas leak detector close to the drain hose, make sure that the gas leak detector does not react to the volatile gases.

If such reaction is unavoidable, the vehicle must be lifted up.

(d) If a gas leak is not detected on the drain hose, remove the blower motor control from the cooling unit. Insert the gas leak detector sensor into the unit and perform the test.

(e) Disconnect the connector and leave the pressure switch for approximately 20 minutes. Bring the gas leak detector close to the pressure switch and perform the test.