551BV–01

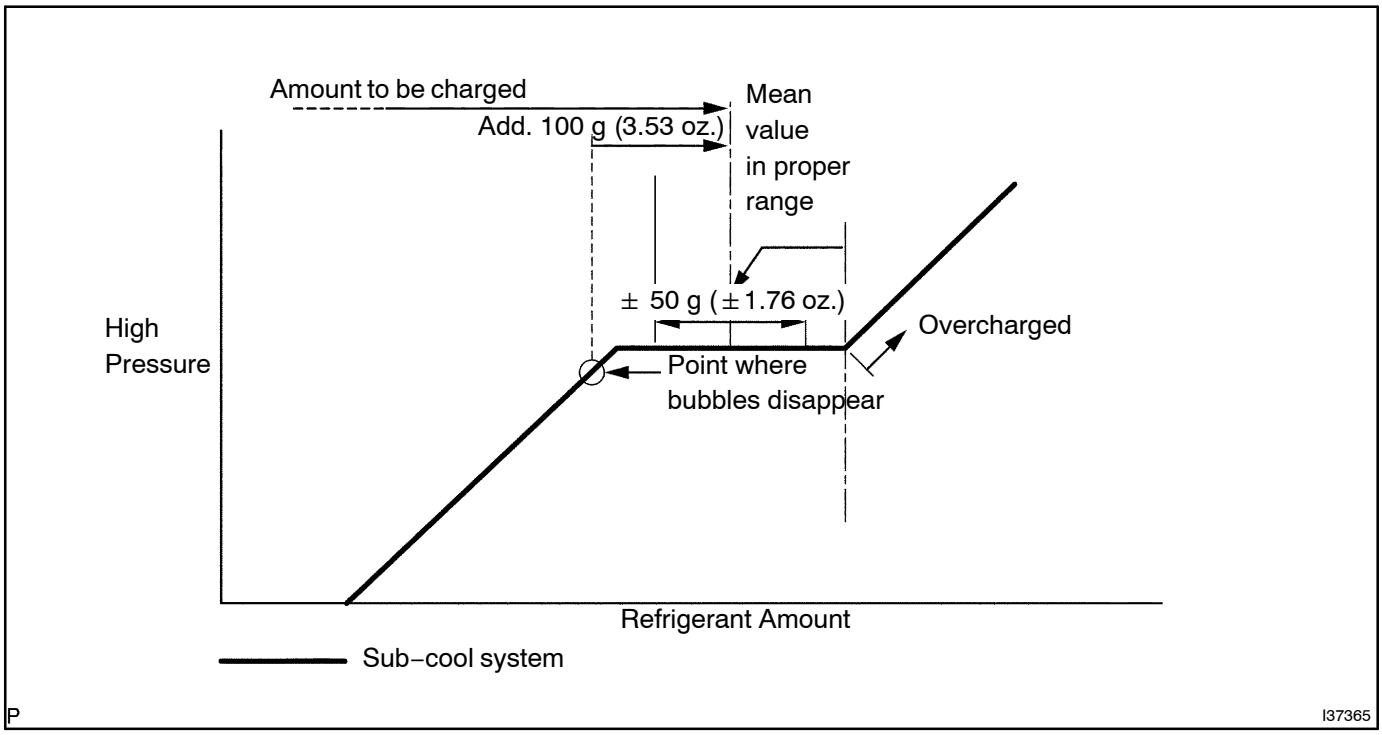
REPLACEMENT

1. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM

(a) Start up the engine.
(b) Turn the A/C switch on.
(c) Operate the cooler compressor at an engine rpm of approximately 1,000 for 5 to 6 minutes to circulate the refrigerant and collect compressor oil remaining in each component into the cooler compressor as much as possible.
(d) Stop the engine.
(e) 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) Using a vacuum pump, perform vacuum purging.
(b) Using SST, charge refrigerant HFC–134a (R134a).
Standard: 650 ± 50 g (22.93 ± 1.76 oz.)
SST 07110–58060 (07117–58060, 07117–58070, 07117–58080, 07117–58090, 07117–78050, 07117–88060, 07117–88070, 07117–88080)



NOTICE:

- **Do not operate the cooler compressor before charging with refrigerant as the cooler compressor doesn't work properly without any refrigerant, which causes the compressor to overheat.**
- **Approximately 100 g (3.53 oz.) 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 ENGINE

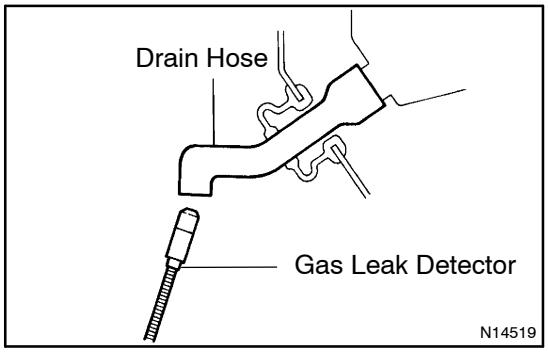
(a) Turn the temperature control volume switch to maximum COOL and drive the vehicle continuously for at least 1 minute to warm up the engine.

NOTICE:

Be sure to warm up the engine after turning the A/C on to prevent damage to the compressor.

4. INSPECT LEAKAGE OF REFRIGERANT

(a) Perform in these conditions:
- Stop the engine.
- Secure good ventilation (if the gas leak detector may 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)



(b) Bring the gas leak detector close to the drain hose before performing the test.

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.

(c) 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.

(d) 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.

(e) Bring the gas leak detector close to the refrigerant lines and perform the test.