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Model Year Start: 2007	Model: Prius	Prod Date Range: [08/2006 -]
Title: AIR CONDITIONING: REFRIGERANT: REPLACEMENT; 2007 MY Prius [08/2006 -]		

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) Recover the refrigerant from the A/C system using a refrigerant recovery unit.

2. CHARGE REFRIGERANT

- (a) Perform vacuum purging using a vacuum pump.
- (b) Charge refrigerant HFC-134a (R134a).

Amount:

450 +/-30 g (15.9 +/-1.1 oz.)

SST: 07110-58060

07117-58060

07117-58070

07117-58080

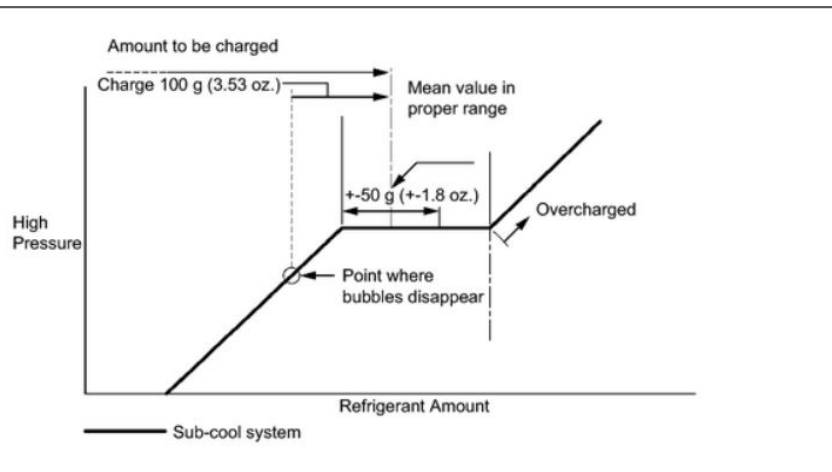
07117-58090

07117-78050

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07117-88080



NOTICE:

- Do not turn the A/C on before charging refrigerant as the cooler compressor does not work properly without any refrigerant. Operating without any refrigerant causes it 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 COMPRESSOR

- Turn the A/C switch on for at least 1 minute to warm up the compressor.

NOTICE:

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

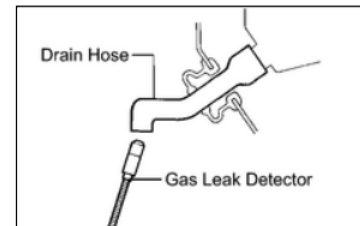
4. INSPECT FOR REFRIGERANT LEAK

- (a) After recharging the refrigerant gas, inspect for refrigerant leak gas using a halogen leak detector.
- (b) After recharging the refrigerant gas, prepare the vehicle for a refrigerant gas leakage check by making sure the following conditions are met.
- (1) The ignition switch is OFF.
 - (2) The vehicle is in a place with good air ventilation and without any volatile gases, such as evaporated gasoline or exhaust gas. The detector is very sensitive to volatile gases. If volatile gases are unavoidable, the vehicle must be lifted up.
 - (3) Some refrigerant remains in the refrigerant system.
 - (4) The compressor is OFF and its pressure is approximately 392 to 588 kPa (4 to 6 kgf/cm²).

(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 as it is 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.



- (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 pressure switch connector and wait for approximately 20 minutes. Bring the gas leak detector close to the pressure switch and perform the test.