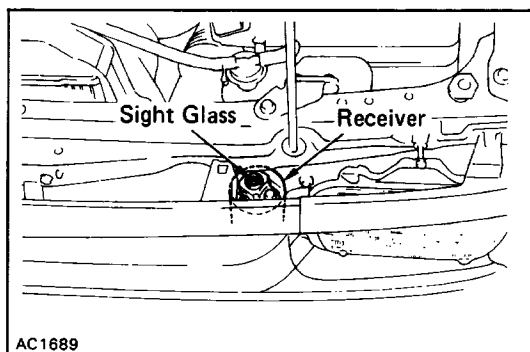


REFRIGERATION SYSTEM

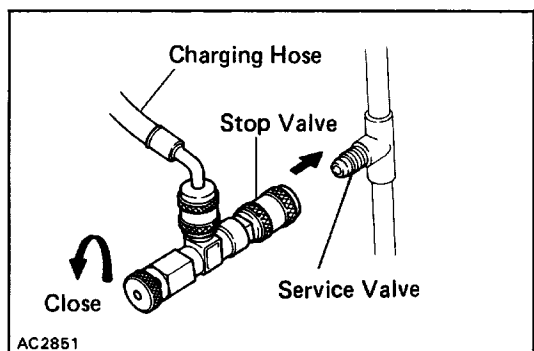
Checking of Refrigerant Volume

1. RUN ENGINE AT APPROX. 1,500 RPM
2. OPERATE AIR CONDITIONING AT MAXIMUM COOLING FOR A FEW MINUTES
3. CHECK AMOUNT OF REFRIGERANT
Observe the sight glass on the receiver.



| Item | Symptom | Amount of refrigerant | Remedy |
|------|--|------------------------------|---|
| 1 | Bubbles present in sight glass | Insufficient * | (1) Check for gas leakage with gas leak tester and repair if necessary (2) Add refrigerant until bubbles disappear |
| 2 | No bubbles present in sight glass | None, sufficient or too much | Refer to items 3 and 4 |
| 3 | No temperature difference between compressor inlet and outlet | Empty or nearly empty | (1) Check for gas leakage with gas leak tester and repair if necessary (2) Add refrigerant until bubbles disappear |
| 4 | Temperature between compressor inlet and outlet is noticeably different | Proper or too much | Refer to items 5 and 6 |
| 5 | Immediately after air conditioning is turned off, refrigerant in sight glass stays clear | Too much | (1) Recover refrigerant (2) Evacuate air and charge proper amount of purified refrigerant |
| 6 | When air conditioning is turned off, refrigerant foams and then stay clear | Proper | — |

*: Bubbles in the sight glass with ambient temperatures higher can be considered normal if cooling is sufficient



Installation of Manifold Gauge Set

HINT: To prevent releasing refrigerant, use charging hoses with a stop valve when installing the manifold gauge set to service valves on the refrigerant line.

Part No. of charging hoses with a stop valve

1. CONNECT CHARGING HOSES WITH A STOP VALVE TO MANIFOLD GAUGE SET

Tighten the nuts by hand.

CAUTION:

- Do not connect the wrong hoses to the high pressure and the low pressure sides.
- To prevent loosening the nuts, do not apply compressor oil to seat of the connection.

2. CLOSE HAND VALVES OF BOTH STOP VALVES

3. CLOSE BOTH HAND VALVES OF GAUGE SET

4. REMOVE CAPS FROM SERVICE VALVES ON REFRIGERANT LINE

