

Vehicle: Documentation

Air Conditioning Symptoms Checklist

AIR CONDITIONING SYMPTOMS CHECK

Help our technicians help you.

1. Does A/C system cool OK?
 Yes
 No
 Sometimes
2. Does the fan/blower work?
 Yes
 No
 At All Speeds Yes No
3. Is the fan/blower noisy?
 Yes
 No
4. Do all the dash controls work OK?
 Yes
 No
5. Do the vent, heater, and defroster work OK?
 Yes
 No
6. Is A/C noisy when turned on?
 Yes
 No
7. Does car stall or idle funny when A/C is on?
 Yes
 No
8. Does your car overheat?
 Yes
 No
9. Has the A/C filter/dryer ever been replaced?
 Yes
 No
10. When was the A/C system serviced last?
 Never 1 Year
 3 Months Longer
 6 Months
11. Does A/C or heater smell?
 Yes
 No
12. Other problems: _____

13. Comments _____

YOUR AIR CONDITIONING SYSTEM

REFRIGERANT: The "working" fluid of the A/C system. The refrigerant transports heat from one part of the system to another. It absorbs heat while turning into gas, gives off heat when becoming a liquid.

1 EVAPORATOR: The component where the liquid refrigerant vaporizes, absorbs heat, and travels on to the compressor. The "cold" part.

2 COMPRESSOR: Pressurizes the refrigerant gas and pumps it to the condenser.

3 CONDENSER: A small radiator that extracts heat from the refrigerant and converts (condenses) it from a gas to a liquid, then transports the liquid to the accumulator.

4 ACCUMULATOR/RECEIVER: A storage tank and filter for the liquid refrigerant. Excess fluid is stored here and moisture is removed.

5 ORIFICE TUBE/EXPANSION VALVE: Regulates the liquid refrigerant going to the evaporator. Here the liquid again changes back into a gas, cools the evaporator fins and gives off cool air that is blown into the car by the fan. The cycle then repeats itself.

COMPRESSOR CLUTCH: Engages and disengages the system.

REFRIGERANT OIL: The system lubricant.

DISCHARGE: To vent all system refrigerant.

EVACUATE: To remove all system moisture and refrigerant.

PERFORMANCE TEST: A complete test of all operations of the climate control system.

LEAK TEST: A check of all system components and connections for refrigerant leaks.

