

# Air Conditioning Symptoms Checklist

## Air Conditioning Symptoms Check

Help our technicians help you.

1. Does A/C system cool OK?

- Yes                       No

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 control 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                       Sometimes

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. Has the A/C system ever been serviced? If yes when? \_\_\_\_\_

- Yes                       No

11. Does A/C or heater smell?

- Yes                       No

12. Other problems: \_\_\_\_\_

\_\_\_\_\_

13. Comments: \_\_\_\_\_

\_\_\_\_\_

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 remove 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.

