

**Compressor**

**Condenser**

**Receiver**

**Expansion valve**

**Evaporator**

**Location:** This is a mechanical pump mounted to the engine and driven by the engine crankshaft through the drive belt and magnetic clutch.

**Function:** It draws in low pressure vapour through a system of valves and pumps out a high pressure vapour to the condenser

**Location:** This is generally located directly in front of the radiator so that it can receive the full flow of air as the vehicle moves, as well as the air drawn in by the engines cooling fan

**Function:** Its main function is to dissipate heat from the refrigerant into the surrounding air

**Location:** This is situated between the condenser and the thermostatic expansion valve (TX valve)

**Function:** This removes any traces of moisture and filters foreign material in the system. It is also a reservoir for excessive refrigerant

**Location:** This is located on the firewall

**Function:** This controls high pressure refrigerant into the evaporator cores, causing a drop in pressure and consequently a drop in temperature.

**Location:** Is generally located inside the heater box assembly in the passenger compartment of the vehicle

**Function:** The coils within this remove the heat and humidity that is being circulated by the heater fan motor from the surrounding air.

Print, laminate and cut up for a matching the component with the location and function activity