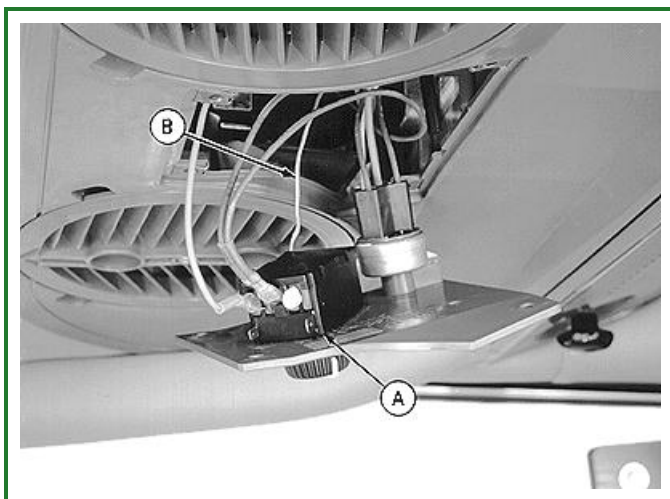


## A/C Temperature Control Switch



### LV1843-UN: Temperature Control Switch Location

#### LEGEND:

A - Temperature Control Switch

B - Temperature Sensing Tube

The thermostatic temperature control switch (A) is a rotary-type switch with a gas-filled temperature sensing tube (B) inserted into the evaporator core. The switch end of the sensing tube uses a diaphragm to control two external contacts wired to the compressor clutch. When the cab air needs to be cooled (to a preselected temperature setting in the cab), the gas in the sensing tube expands the diaphragm, completing the circuit in the switch and engaging the compressor clutch. The compressor continues to operate until the preselected cab temperature is reached.

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## Evaporator



### LV1844-UN: Evaporator Location

#### **LEGEND:**

A - Evaporator

The evaporator (A) is located in the evaporator/heater core housing in the cab roof. This is where the heat transfer, from cab air to the refrigerant, takes place.

The refrigerant is still a liquid (under low pressure) as it leaves the expansion valve. As it expands and becomes a gas in the evaporator, its temperature is reduced. This low temperature is transferred to the cooling fins. The air passing through the evaporator transfers its heat to the fins.

Also, because cool air can hold less moisture than warm air, moisture in the ambient air condenses when it comes into contact with the cold evaporator fins. The condensation is drained away by a drain hose.

The refrigerant flows from the evaporator outlet, through the expansion valve, and back to the compressor inlet.

The heater core is also part of the evaporator heat exchanger. The heater core uses engine coolant to heat the cab air as required. Coolant flow is regulated by the heater valve, which is controlled by the operator control knob.

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