

Operator Station - Air Conditioning Receiver/Dryer Operation

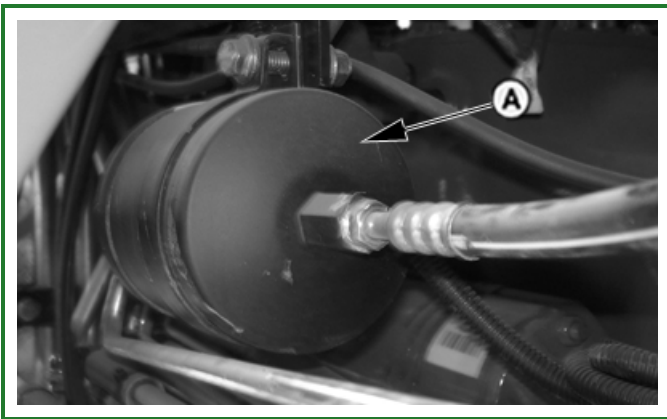
IMPORTANT:

Receiver/dryers are NOT interchangeable between R12 and R134a refrigerant systems. The desiccant in each is different (SH5 for R12 and SH7 for R134a) and they are not compatible. When SH5 comes in contact with R134a, it breaks down into a powder that causes excessive wear in the compressor.

NOTE:

The receiver/dryer is not repairable. If a malfunction is suspected, install a new receiver-dryer.

If the air conditioning system is discharged for servicing and the receiver/dryer is two years old or older, it should be replaced. If it is less than two years old it should be replaced only if the system is contaminated.



PULV000413-UN: Receiver/Dryer

LEGEND:

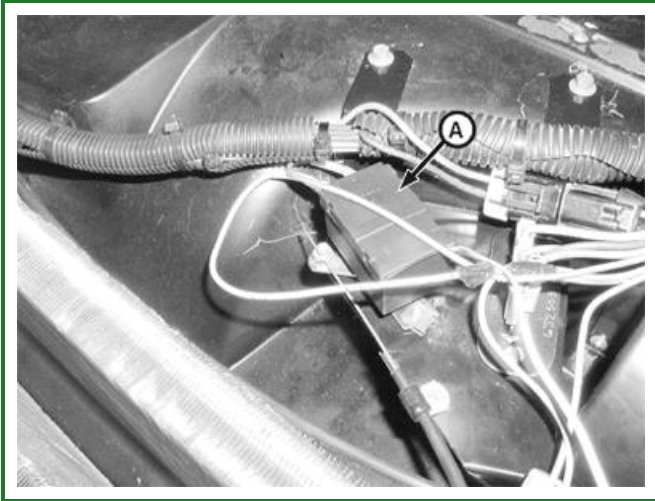
A - Receiver/Dryer

The receiver/dryer (A) is located under the right side of the cab. Its inlet is connected to the condenser and its outlet is connected to the expansion valve. It performs two functions. One is to store high pressure liquid it receives from the condenser until the evaporator needs it. It also absorbs moisture and acid that would have a detrimental effect on the system's operation for a long period of time.

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Operator Station - Air Conditioning Temperature Control Switch Operation



LV6459-UN: A/C Temperature Control Switch

LEGEND:

A - Thermostatic Temperature Control Switch

The thermostatic temperature control switch (A) is located in the evaporator/heater core housing, in the cab roof. The thermostatic control is a rotary-type switch with a gas-filled temperature sensing tube 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 inside 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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