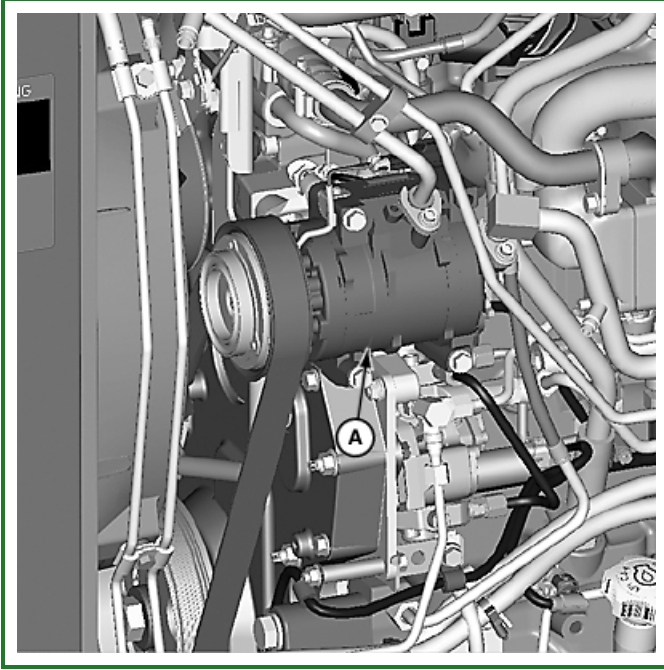


Operator Station - Air Conditioning Compressor Operation



LV14900-UN: Compressor

LEGEND:

A - Compressor

The compressor (A) is located at the front of the engine above the valve cover.

The compressor takes low pressure gas from the outlet of the evaporator and compresses it into a high pressure gas which is sent to the condenser. The temperature of the gas is increased during the compression phase.

The compressor has a multiple groove pulley which is driven by a multiple groove drive belt. The pulley is attached to one side of an electromagnetic clutch. The compressor has five axial pistons that are driven by a swashplate, which is attached to the other side of the electromagnetic clutch. Applying battery voltage to the electromagnetic clutch engages the compressor and removing battery voltage disengages it. The air conditioning circuit automatically controls the compressor engagement/disengagement when the air conditioning system is in operation.

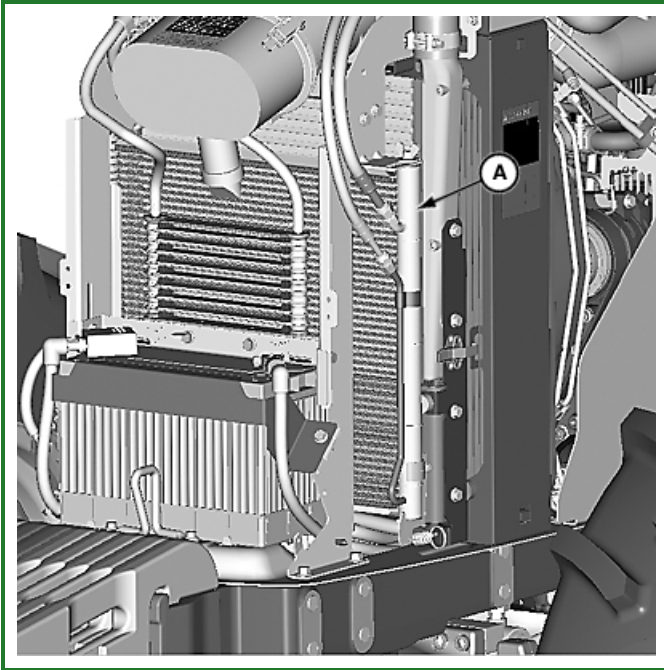
When the key switch is ON and the blower motor switch is in any ON position, the compressor may also be operated manually by using the A/C temperature control switch located on the overhead control panel.

The compressor housing also serves as a reservoir for refrigerant oil.

Go to [Section_290:Group_20AA](#)

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Operator Station - Air Conditioning Condenser Operation



LV14899-UN: Condenser

LEGEND:

A - Condenser

The condenser (A) is located in front of the tractor radiator. It is a heat exchanging unit that receives high pressure and high temperature gas from the compressor and removes heat and condenses it to a high pressure liquid by the time it leaves the condenser.

The heat is removed from the high pressure gas by the air drawn through the condenser by the engine fan. The condenser inlet is connected to the compressor outlet and its outlet is connected to the receiver-dryer inlet.

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