NEW HOLLAND

BACKHOE LOADER

B95
B95TC
B95LR
B110
B115

SERVICE MANUAL

60367230 NA

Issued 04-2006

NEW HOLLAND

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CONDENSER

The condenser (1), located at the front of the machine in front of the engine radiator consists of a number of turns of continuous coil mounted in a series of thin cooling fins to provide a maximum of heat transfer in a minimum amount of space.

NOTE: the condenser after removal of the attaching bolts can be slid out for cleaning.

The condenser receives the hot, high pressure refrigerant vapour from the compressor. The hot vapour passes through the condenser coils and outside air is drawn through the condenser by the engine cooling fan.
Heat moves from the hot refrigerant vapour into the cooler outside air flowing across the condenser coils and fins.
When the refrigerant vapour reaches the pressure and temperature that will induce a change of state, a large quantity of heat is transferred to the outside air and the refrigerant changes to a high pressure warm liquid.
The warm liquid refrigerant continues onto the receiver/drier where it is filtered and desiccated, to remove any moisture, before passing through an outlet line to the thermostatic expansion valve.

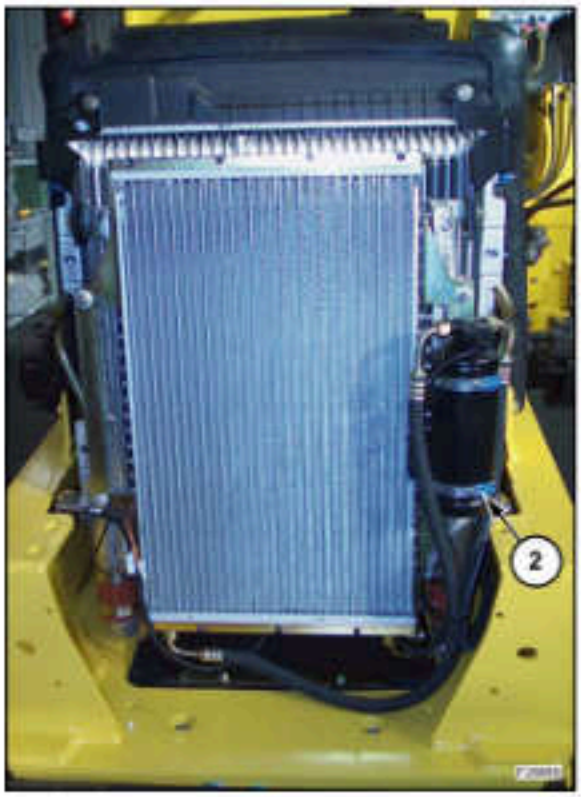


RECEIVER DRYER

The receiver/dryer (2) situated behind the battery stores the liquid refrigerant to be sure a steady flow to the thermostatic expansion valve is maintained under widely different operating conditions.
The drier section contains a desiccant (Molecular sieve) to absorb any moisture within the system and a filter prevents the entry of foreign particles.

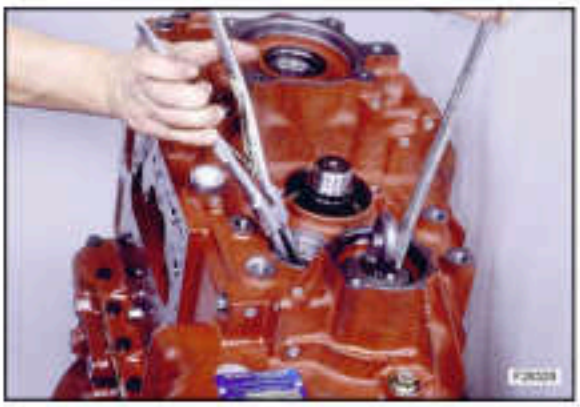
NOTE: any moisture in the air conditioning system is extremely harmful. Moisture not absorbed by the dehydrator will circulate with the refrigerant and droplets may collect and freeze in the thermostatic expansion valve orifice. This action will block the refrigerant flow and stop the cooling action. Moisture will also react with refrigerant HFC 134a and the lubricant to form a corrosive acid.

The desiccant can only absorb a limited amount of moisture before reaching saturation point. Because of this, after any system component replacement or repairs requiring entry into the system, the receiver/dryer should be replaced.



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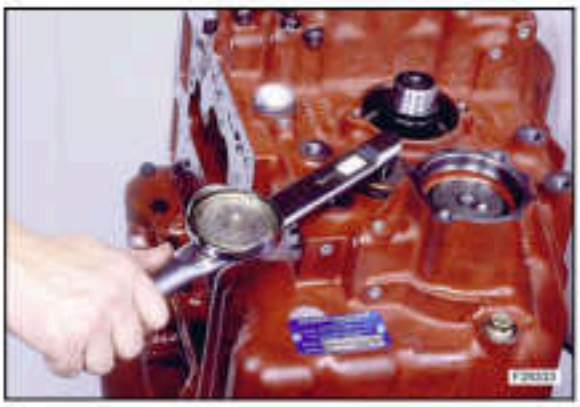
Using spreading type snap ring plier, spread ears on output shaft rear bearing retaining ring. Hold snap ring open, pry or lift output shaft. Be sure retaining ring is complete in bearing groove. (Using a lifting eye or screw M12).



Install hole plug and gasket.



Tighten plug to 13.6 - 20.3 Nm (10 -15 lbf·ft).

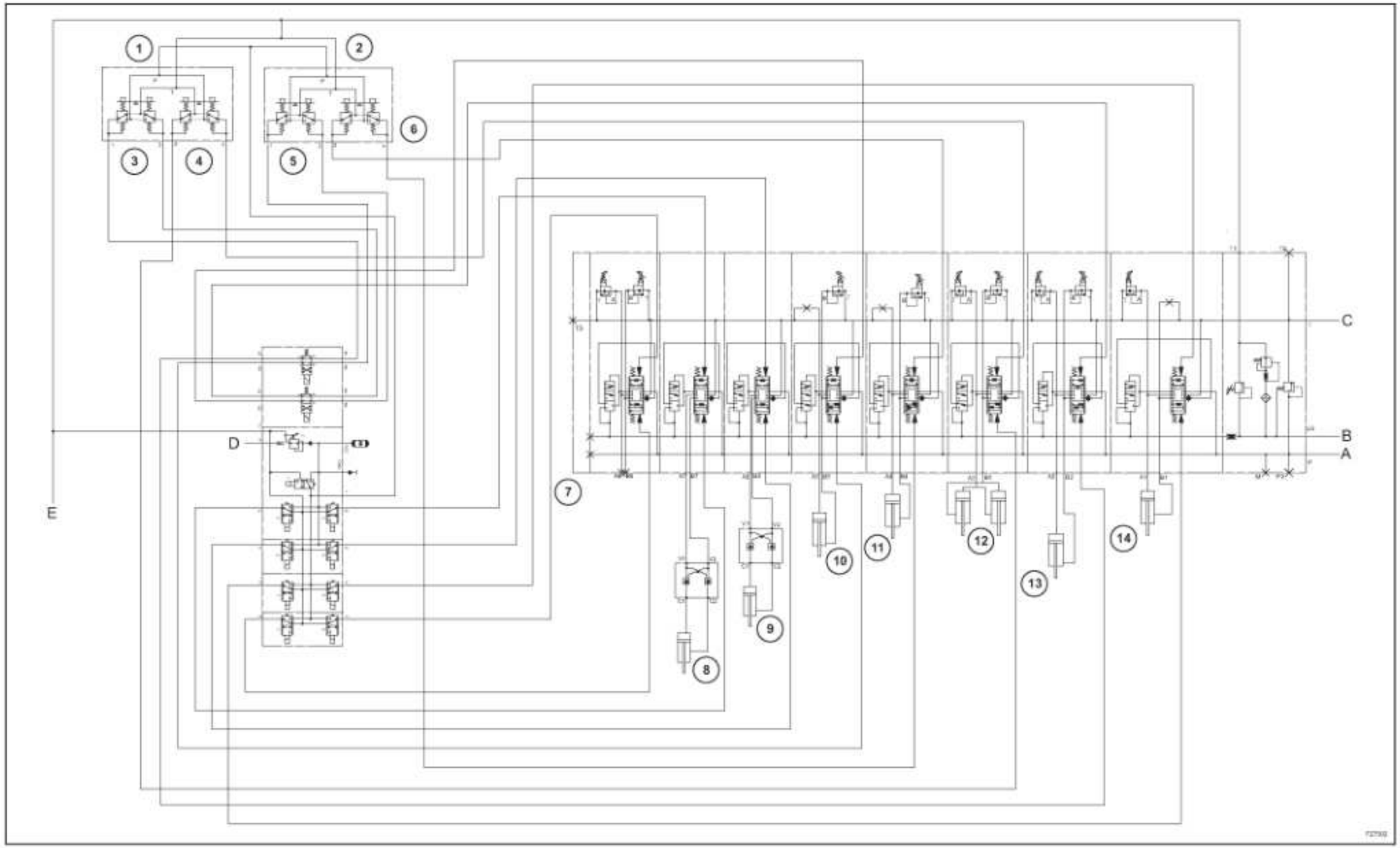


Position lower output bore plug and tap bore plug into place.



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1.2 HYDRAULIC DIAGRAM - 2WS PILOT MODELS



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