WDX901, WDX1101, WDX1701
Self Propelled Windrowers

Repair Manual

86630611

CASE IH

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SECTION 00 – GENERAL INFORMATION

1 - General Information

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SECTION 10 - ENGINE

Chapter 1 - Engine

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SECTION 10 - ENGINE

Chapter 2 - Fuel System (4-Cylinder Engine)

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Installation

Radiator installation is the reverse of removal but with the following requirements:

1. Use the correct grade and quantity of heavy duty anti-freeze. The recommended mix is water 50%, anti-freeze 45%, and coolant conditioner 5%.
2. Refill the system through the radiator pressure cap. Reinstall the 0.9 bar (13 PSI) radiator cap and continue filling through the expansion tank until the coolant is visible in the expansion tank. Put the expansion tank cap back on.
3. If you loosened or removed the engine oil cooler tubes, check the engine oil level.
4. Run the engine for several minutes, checking for leaks. Top off any fluid levels that may have settled during testing.

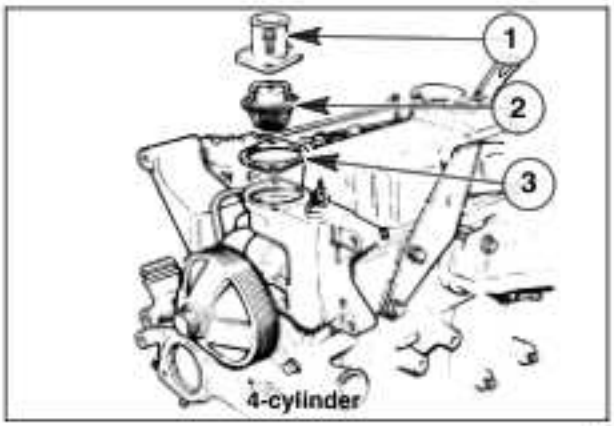
THERMOSTAT

Removal

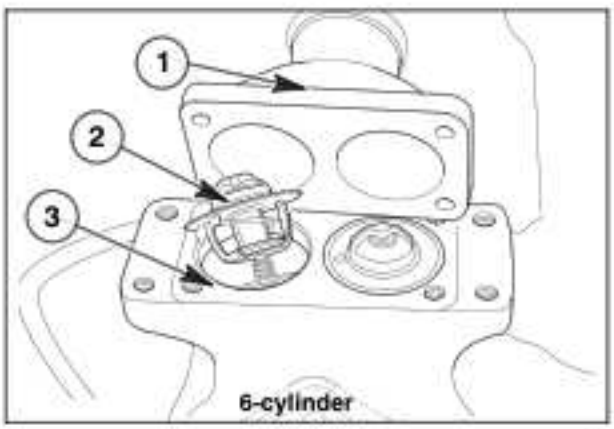
1. On the 4-cylinder, drain the coolant until it is lower than the thermostat housing, 1.
2. Remove the thermostat housing retaining bolts. Move the housing, with hose attached, to one side.

NOTE: *The WDX1701 6-cylinder engine has two thermostats. Both must function for the cooling system to work properly.*

3. Remove the thermostat, 2, from the housing, along with the gasket, 3.



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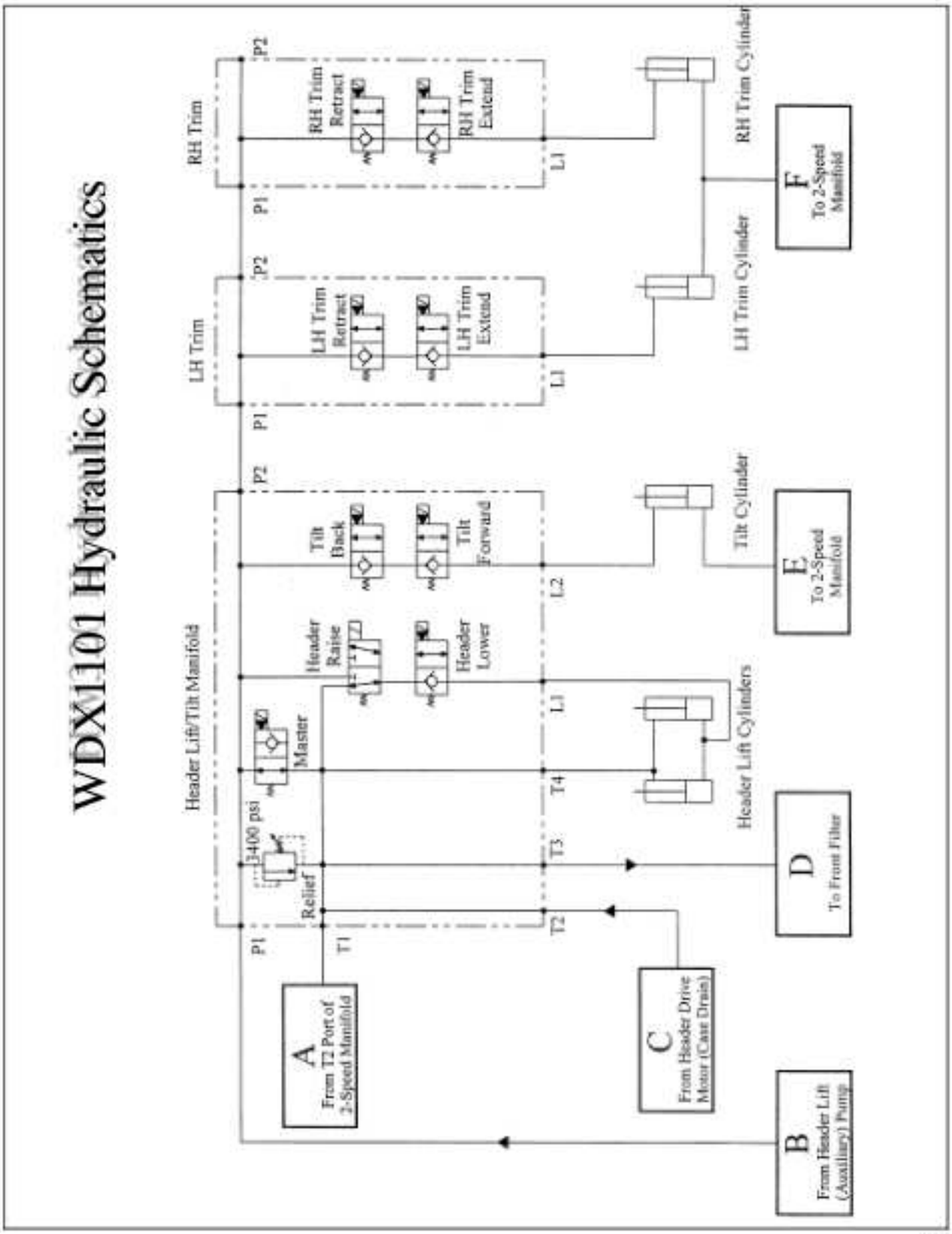


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Inspection and Repair

Place the thermostat in a container of water and raise the temperature to boiling (100°C/212°F). The thermostat should start to open at 79° - 83°C (174° - 181°F). It should be fully open at 93° - 96°C (199° - 205°F). If the thermostat fails to open when hot, or close properly when cooled, replace it.

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CONDITION	POSSIBLE CAUSE	REMEDY
Gauge Readings: Low Pressure - High High Pressure - High		
Evaporator air warm	Improper operation of condenser	Inspect for dirty condenser restricting air flow and cooling
Liquid line hot (condenser outlet to expansion valve tube)	Overcharged with refrigerant	Check operation of condenser cooling fans. Repair or replace as needed. Check for overcharge as follows: Discharge system until bubbles appear in sight glass and both gauges drop below normal readings. Then add 100 - 200 gm (4-6 oz.) refrigerant. Retest system. If gauge readings are still too high, proceed as follows: Discharge system Remove condenser assembly, flush and clean thoroughly Replace receiver/drier Evacuate the system Charge the system Retest
Evaporator air not cold	Air and moisture in the system.	Discharge the system Replace receiver/drier Evacuate the system Charge the system Retest
Evaporator air warm Evaporator and hose to condenser shows considerable moisture	Expansion valve allowing too much refrigerant to flow through the evaporator	Check expansion valve Set for maximum cooling Spray refrigerant on expansion valve head and/or sensing bulb Low pressure gauge should show vacuum reading If the above test shows expansion valve operating properly, proceed as follows: Remove the sensing bulb from the evaporator outlet tube Clean the surface of the tube and sensing bulb Clamp the sensing bulb to the outlet tube Retest If the expansion valve is defective, proceed as follows: Discharge the system Replace the expansion valve Evacuate the system Charge the system Retest

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Section 55
Electrical

Section 88
Optional Equipment

Section 90
Platform, Cab, Bodywork, And Decals

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Section 29
Hydrostatic Transmission

Section 33
Brakes And Controls

Section 35
Hydraulic Systems

Section 50
Cab Climate Control

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