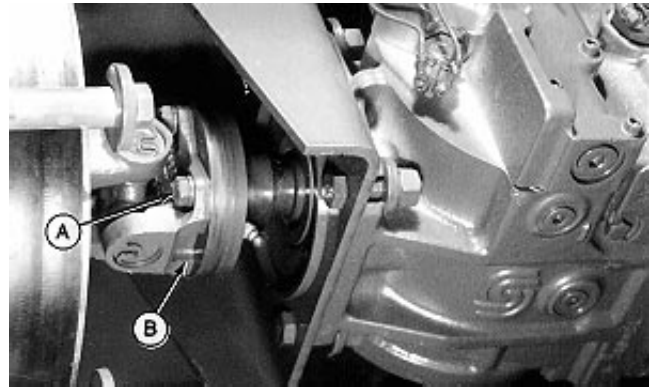


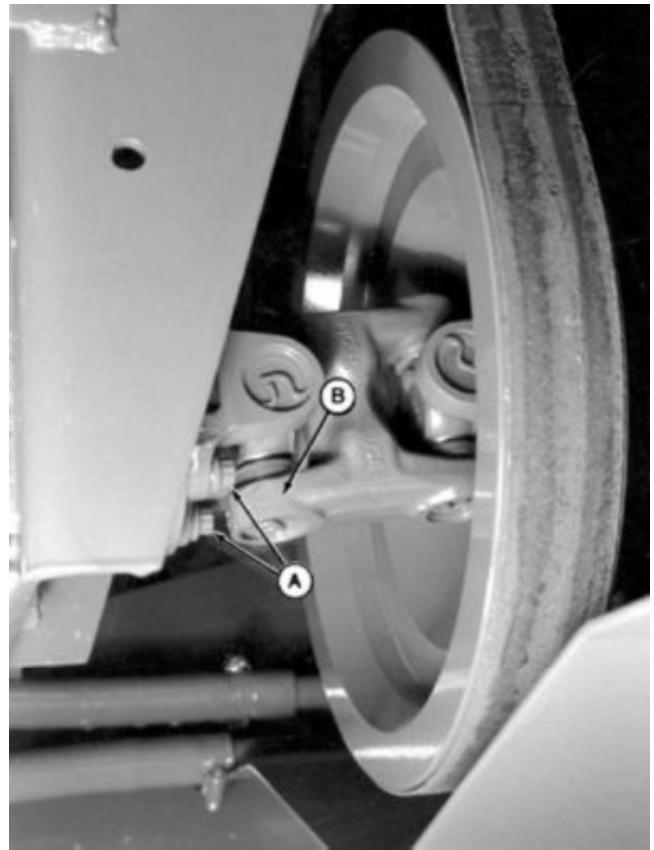
2. Remove driveline cap screws (A) and lock washers.

3. Leave coupler (B) on hydrostatic pump drive shaft. It can be removed when pump is loose from mounting and moved forward.



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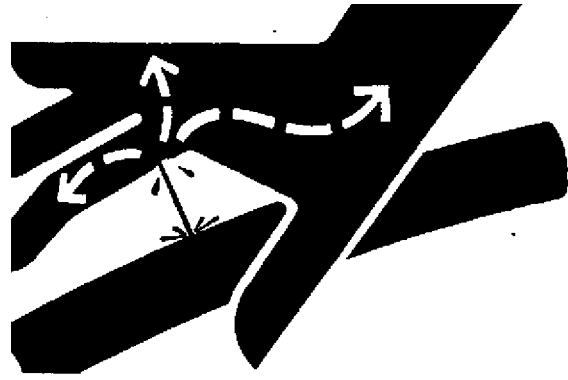


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CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.



If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.

IMPORTANT: When disconnecting a line, hose, or transfer tube from a hydrostatic component, always mark end and port from which it was removed so that it can be connected to proper port when reassembling.

Also, when disconnecting a line, hose, or transfer tube from a component, always plug them and the component to keep dirt out of the system. Use a plastic plug or plastic bag. NEVER use a cloth. Cloth contains lint which can damage the hydrostatic system.

High pressure hoses have clamp-type bolted fittings with O-rings. When this type of fitting is disassembled, inner surfaces must be cleaned thoroughly and new O-rings installed. This is to insure a tight seal and reduce possibility of leakage.

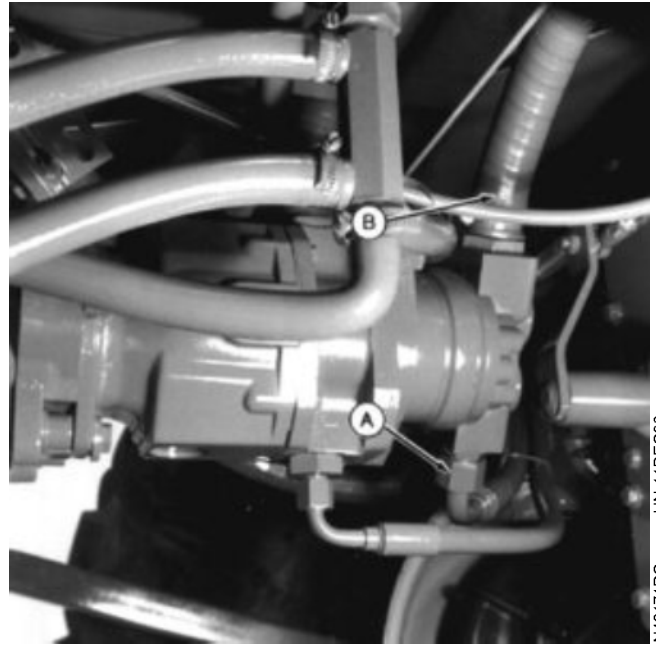
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Hydrostatic Drive Components—Remove and Install/Remove and Install Hydrostatic Pump

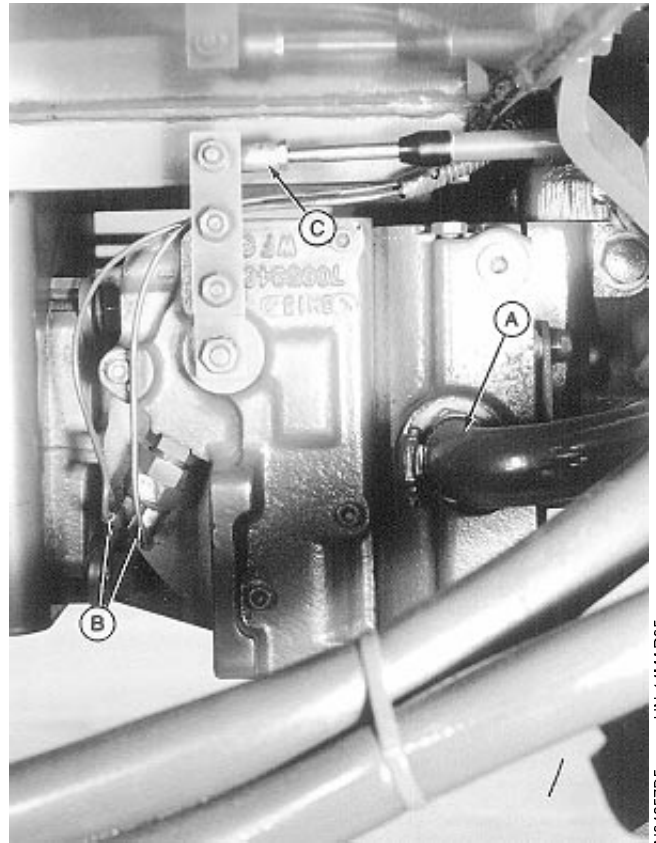
4. Clean pump and surrounding area using steam or solvent.
5. Disconnect hydraulic pump pressure hose (A) from elbow.
6. Loosen supply hose (B) hose clamps. Leave hose barb in hose and unscrew from pump.



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7. Disconnect hydrostatic pump case drain (A).
8. Disconnect control cable (C) from control valve arm.
9. Disconnect neutral start wires (B) from switch.



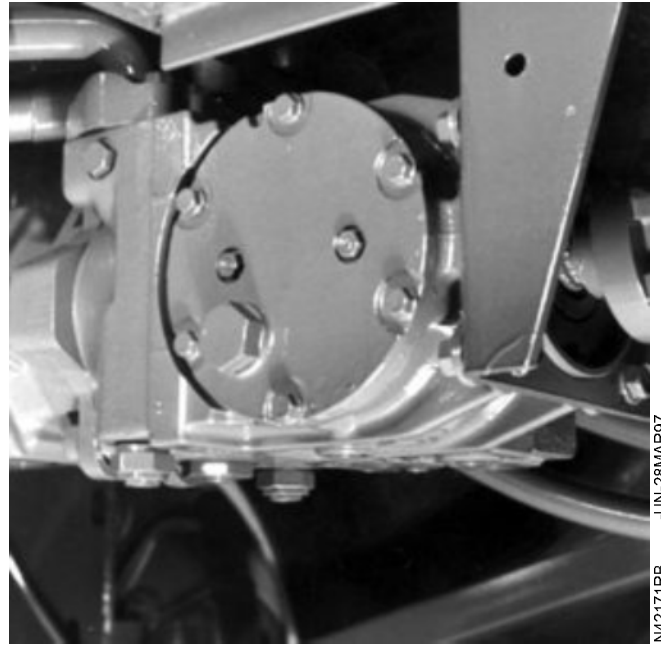
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CAUTION: To avoid personal injury and damage to hydraulic/hydrostatic pumps, use appropriate lifting equipment for removal. Pumps weigh approximately 84 kg (185 lb) when together.

10. Place D05070ST Service Jack with adapters under pumps.

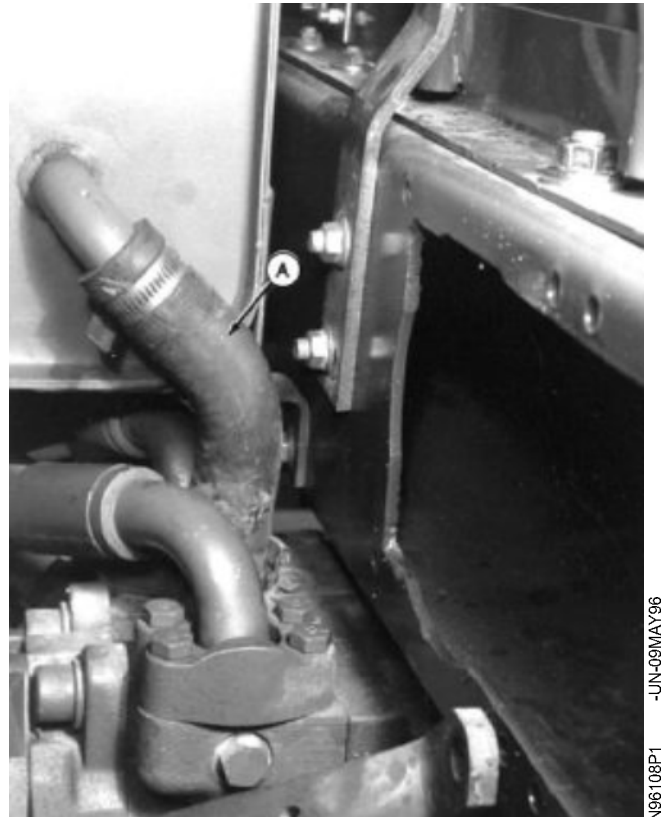
11. Remove attaching hardware.



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12. Disconnect hydrostatic supply hose (A) from reservoir.

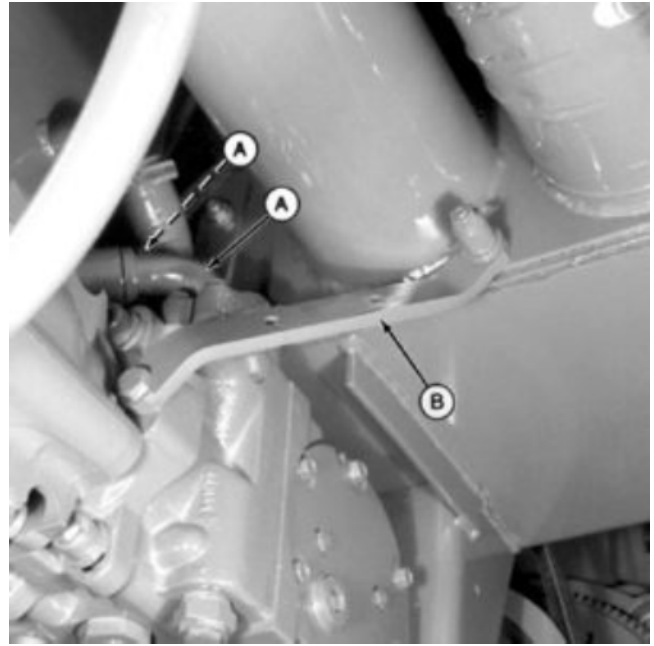


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13. Remove cap screws attaching support brackets (B) to pumps.
14. Slide pumps back and then lower until high pressure hose clamp hardware can be accessed.
15. Disconnect high pressure lines (A).
16. Lower pumps completely and remove from under machine.
17. Separate hydraulic pump from hydrostatic pump.
18. Repair hydrostatic pump. (See instructions in this section.)



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19. When installing hydrostatic/hydraulic pumps:

- Replace O-rings on high-pressure hose ends.
- Install high-pressure hoses (A) by placing one-half of clamp on motor to hold hose in place while installing other half. Pinch clamps together before tightening clamp cap screws. Uniformly tighten clamp screws. Final tighten clamp screws to specified torque.
- Install support brackets (B).

20. If hydrostatic pump failed internally and failure could have caused metal particles to contaminate the system's oil, perform the following tasks:

- Drain the hydrostatic system.
- Replace reservoir filter.
- Fill reservoir with John Deere HY-GARD transmission and hydraulic oil.

IMPORTANT: Avoid damage to hydraulic/hydrostatic reservoir by not overpressurizing when using pump.

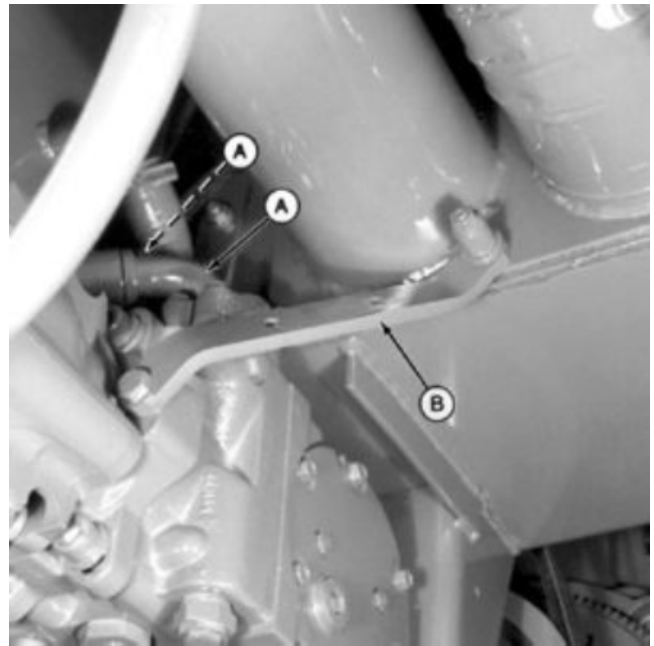
21. If D15032NU Pump was used to keep oil in reservoir, reverse the hoses on the pump to apply a slight amount of pressure to system. This pressure will push hydraulic oil back in to some of the hydraulic components.

22. Start engine and purge air from system. (See Start-Up Procedure After Filling Reservoir in this section.)

23. Check hydraulic and hydrostatic pumps for leaks.

Torque Specifications

Hydrostatic Pump-to-Mounting Nuts	115 N·m (85 lb-ft)
High Pressure Hose Clamp Screws	47 N·m (35 lb-ft)



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START-UP PROCEDURE AFTER HYDROSTATIC SYSTEM REPAIR

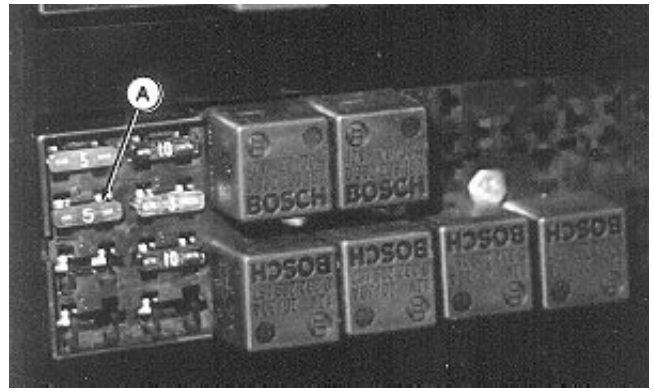
1. Fill system with John Deere HY-GARD transmission and hydraulic oil and leave cap off reservoir.
2. Remove 5-amp or 10-amp FUEL/START AID/ALT fuse (A) (on side of console). (This prevents engine from starting.)

IMPORTANT: Avoid engine damage. Do not crank engine for more than 10 seconds in each minute.

3. Crank engine with starting motor several times at one minute intervals. (This starts oil flowing into the hydraulic and hydrostatic pumps.)
4. Install FUEL/START AID/ALT fuse.

⚠ CAUTION: To avoid injury or death to others, keep all bystanders away from machine while performing start-up procedure. Machine may move unexpectedly.

5. Start engine.
6. Run engine at slow idle speed for five minutes. (This bleeds air from the system.)



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