

GENERAL INFORMATION

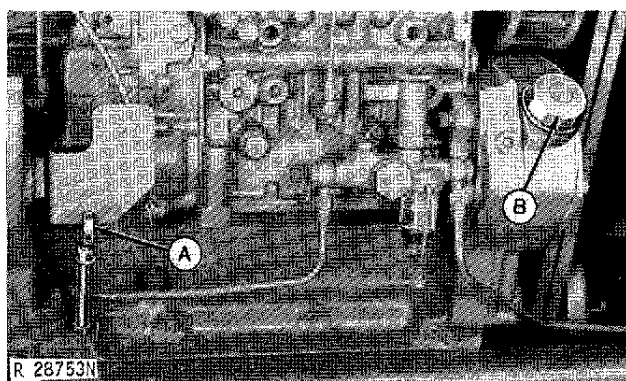
Carefully written and illustrated instructions are included in the tractor operator's manual. Remind your customer to follow the recommendations in these instructions.

For your convenience when servicing the tractor, the following chart shows capacities and types of lubricants for the various components.

Component	Capacity	Type of Lubricant	Interval of Service
Engine Crankcase	20 U.S. quarts (19 L) (includes filter)	See "Engine Lubricating Oils" on page 1	10 Hours—Check level 100 Hours—Change oil 200 Hours—Replace filter 200 Hours—Clean breather filter
Transmission and Hydraulic System	See page 00-2	John Deere Hy-Gard Transmission and Hydraulic Oil	200 Hours—Check level 200 Hours—Replace filter on Perma-Clutch tractors 600 Hours—Replace filter on Power Shift tractors 1200 Hours—Change oil 1200 Hours—Clean main pump screen
Front Wheel Bearings	Wheel Bearing Grease	1200 Hours—Repack bearings
Grease Fittings	John Deere High Temperature Grease	See pages 6 through 8

ENGINE CRANKCASE

Checking Oil Level



A—Dipstick

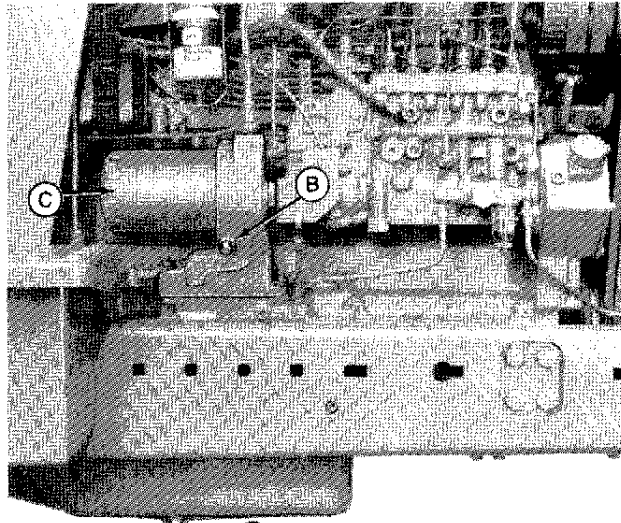
B—Filler Cap

Fig. 1-Crankcase Dipstick and Filler Cap

With the tractor on level ground and the engine stopped for 10 minutes or more, remove the dipstick. Observe the engine oil level on the dipstick, with the dipstick seated evenly. If the oil level is down to the lower marks on the dipstick, add sufficient John Deere TORQ-GARD SUPREME Engine Oil or its equivalent of the proper viscosity to bring the level to the upper marks.

SERVICE INTERVAL: At predelivery and after every 10 hours.

Changing Oil and Filter



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A—Crankcase Drain Plug C—Filter Element
 B—Filter Drain Plug

Fig. 2-Crankcase Drain Plug

With the engine warm, remove the crankcase drain plug (A, Fig. 2) and drain the oil from the crankcase. Also remove the oil filter drain plug (B) and drain the filter.

Install the drain plugs and add new John Deere TORQ-GARD Engine Oil or its equivalent of the proper viscosity (page 1). Run the engine at slow idle speed. Check for leaks around the crankcase drain plug. Retighten if necessary. The oil level on the dipstick 10 minutes after stopping should be at the upper marks. The capacity is 20 U.S. quarts (19 L).

Keep a record of all oil and filter changes on the stickers that come with the filters.

SERVICE INTERVAL: Every 100 hours.

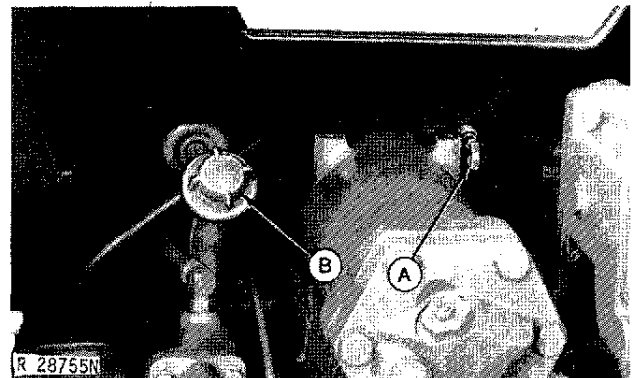
While draining the crankcase oil, change the crankcase oil filter (C). Remove the filter element by turning it counterclockwise. Clean the filter mounting pad. Install new sealing ring. Apply a thin film of oil to the sealing ring and screw the new element in place by hand until it is tight.

IMPORTANT: The element does not have a bypass valve. Replace only with a genuine John Deere filter element.

SERVICE INTERVAL: Every 200 hours.

TRANSMISSION AND HYDRAULIC SYSTEM

Checking Oil Level



A—Dipstick B—Filler Cap

Fig. 3-Transmission-Hydraulic System Dipstick

With the tractor on level ground, run the engine for a minute to fill the filter. Stop the engine and check the transmission-hydraulic system oil level with the dipstick. If the oil level is down to the "ADD" mark at the bottom of the "SAFE" range on the dipstick, remove the filler cap and add John Deere HY-GARD Transmission and Hydraulic Oil or its equivalent to bring the oil level up to the top of the "SAFE" range.

SERVICE INTERVAL: At predelivery and every 200 hours.

Changing Filter Elements

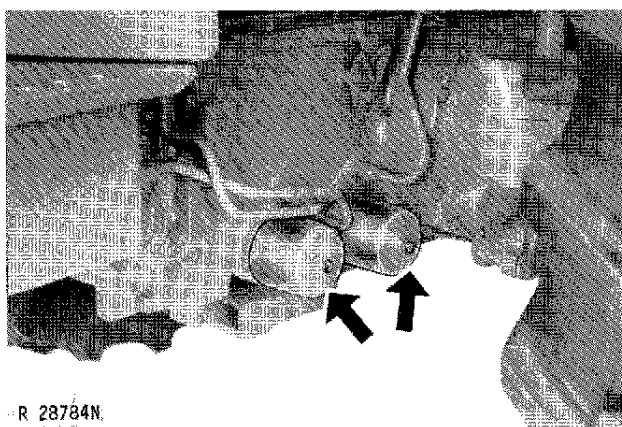


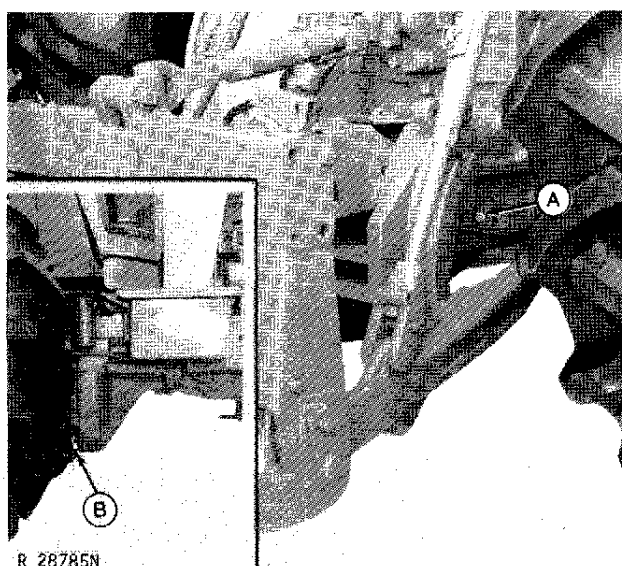
Fig. 4-Transmission-Hydraulic Filter Covers (Power Shift Shown)

With engine stopped, remove transmission-hydraulic system oil filter cover. On tractors with Power Shift transmission, remove both covers.

Replace filter element or elements. Replace cover gasket. Replace cover and tighten to 45 ft-lbs (60 N·m) (6 kgm).

SERVICE INTERVAL: After the first 100 hours. Then every 200 hours on all QUAD-RANGE. Every 600 hours on Power Shift.

Changing Oil



A—Transmission Case Drain Plug
B—Clutch Housing Drain Plug

Fig. 5-Transmission-Hydraulic System Drain Plugs

With the engine warm, remove the transmission case drain plug (A, Fig. 5). On QUAD-RANGE, also remove clutch housing drain plug (B).

Reinstall plugs and fill system with John Deere HY-GARD Transmission and Hydraulic Oil or its equivalent. Capacities are listed below.

Transmission-hydraulic system (drain and fill)	
Power Shift Transmission . . .	16.5 U.S. gal. (62.5 L)
QUAD-RANGE	
Transmission	22.5 U.S. gal. (82.5 L)
Power Front-wheel Drive . . .	4.0 U.S. gal. (15.1 L)

Transmission-hydraulic system (dry, production fill)	
Power Shift Transmission . . .	20.8 U.S. gal. (78.8 L)
QUAD-RANGE	
Transmission	26.0 U.S. gal. (98.4 L)
Power Front-wheel Drive . . .	5.0 U.S. gal. (18.9 L)

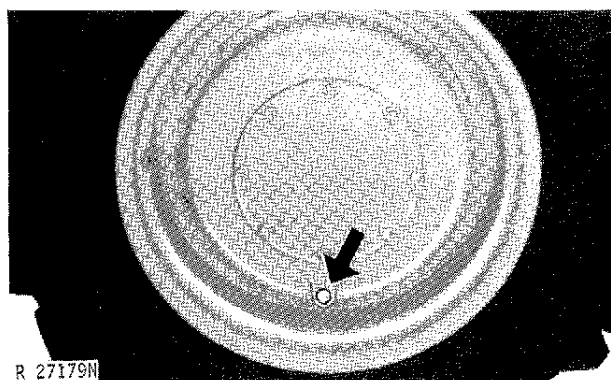
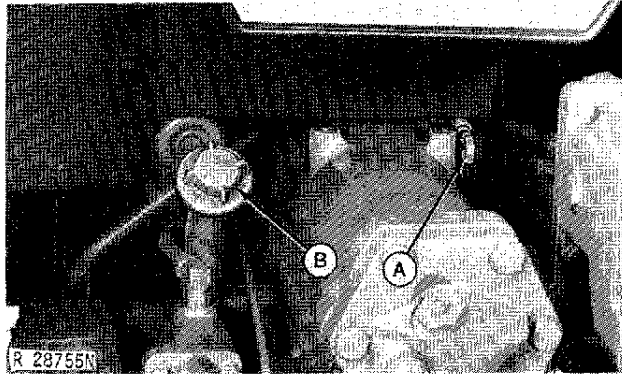


Fig. 6-Power Front-Wheel Drive Drain Plug

On Power Front-Wheel Drive tractors, position the drain plug on the wheel at the bottom, clean the area around the plug, protect the tire, and drain each wheel housing. Position the drain hole near the top and put 2 quarts (2 L) of John Deere HY-GARD Transmission and Hydraulic Oil or its equivalent in each front wheel. Install the drain plugs. With transmission oil level at the top of the "SAFE" range, add 2 extra gallons (8 L) to transmission. Operate the front drive for 2 or 3 hours and ADD oil to the transmission to bring it to the proper level. The front wheels hold approximately 2-1/4 gallons (9 L) each.

SERVICE INTERVAL: Every 1200 hours.

Cleaning Breather Filter and Main Pump Screen



A—Dipstick

B—Filler Cap

Fig. 7-Transmission-Hydraulic System Filler Cap

Remove transmission-hydraulic system filler cap. Wash breather filter in solvent, and blow it dry with compressed air.

SERVICE INTERVAL: Every 200 hours.

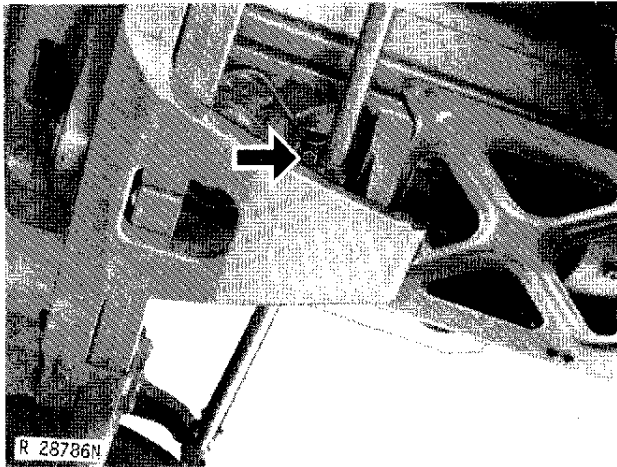


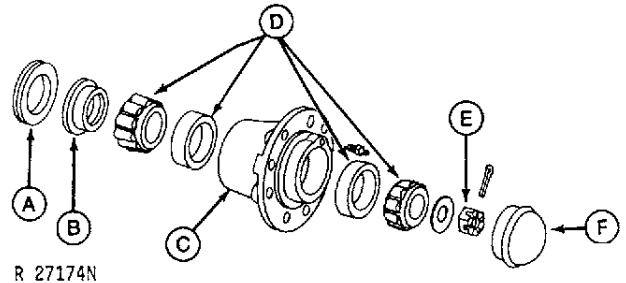
Fig. 8-Main Hydraulic Pump Screen

Remove plug (Fig. 8) from bottom of main hydraulic pump, and remove screen from hole. Wash screen in solvent, and blow dry with compressed air. Reinstall screen and plug.

SERVICE INTERVAL: Every 1200 hours.

FRONT WHEEL BEARINGS

Cleaning and Packing Bearings



A—Oil Seal
B—Oil Seal Cup
C—Hub

D—Bearings
E—Adjusting Nut
F—Hub Cap

Fig. 9-Front Wheel Bearings

1. Jack up front axle.
2. Remove hub cap. Remove cotter pin and adjusting nut.
3. Disassemble parts. Clean parts in solvent and blow them dry with compressed air.
4. Inspect parts carefully for damage. Replace bearings if they are worn. Replace oil seal and oil seal cup if three deep grooves are worn in cup.
5. Pack bearings with wheel bearing grease. Pack seal lips with John Deere AT30408 High Temperature Grease (1 lb. [0.45 kg] can) or its equivalent. TY6281 Lubricant is the same John Deere High Temperature Grease in a 14 oz. (0.39 kg) cartridge. Lubricant must be an extreme-pressure grease with non-soap base and NGLI No. 2 consistency, and must meet John Deere JDM J13 E4 specifications.
6. Reassemble parts. Tighten adjusting nut until a slight drag is felt when wheel is turned. Back nut off just enough to insert cotter pin in first hole.
7. Reinstall hub cap.

SERVICE INTERVAL: Every 1200 hours.

GREASE FITTINGS

Lubricating Front Axle

Apply several shots of John Deere High-Temperature Grease or its equivalent to tie rods, the pivot pins, and the steering spindles (10 fittings).

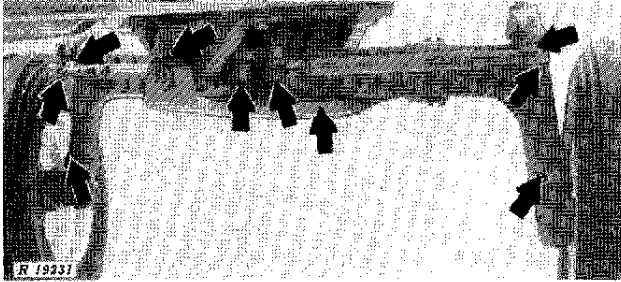


Fig. 10-Wide Front Axle Grease Fittings

SERVICE INTERVAL: At predelivery and every 10 hours.

Lubricating Wide-Swing Drawbar

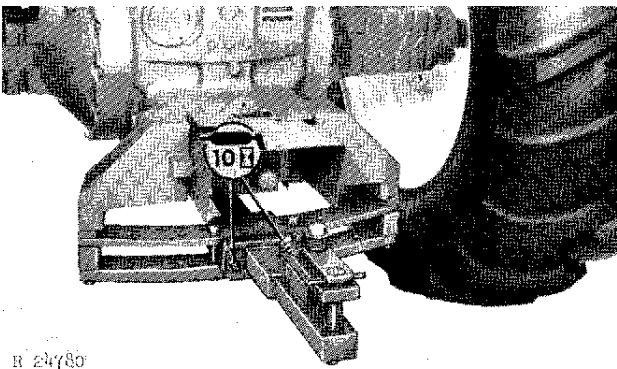


Fig. 11-Wide-Swing Drawbar Grease Fittings

If the tractor has a wide-swing drawbar, apply several shots of John Deere High Temperature Grease or its equivalent to the drawbar rollers.

SERVICE INTERVAL: At predelivery and every 10 hours.

Lubricating Front Wheels

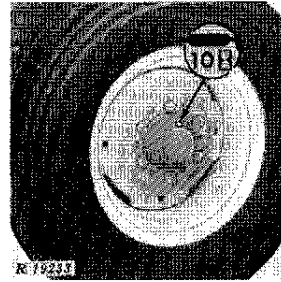


Fig. 12-Front Wheel Grease Fitting

When the tractor is being operated in extremely wet and muddy conditions, grease each front wheel (except Power Front-Wheel Drive) daily or every 10 hours. To do so, remove the pipe plugs, install fittings, and apply several shots of John Deere High Temperature Grease or its equivalent. CONTINUE lubricating the front wheels at this interval until the bearings can be cleaned and packed with wheel bearing grease.

SERVICE INTERVAL: Only if tractor is operated in extremely wet and muddy conditions, lubricate every 10 hours until bearings can be cleaned and packed as instructed on page 5.



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