

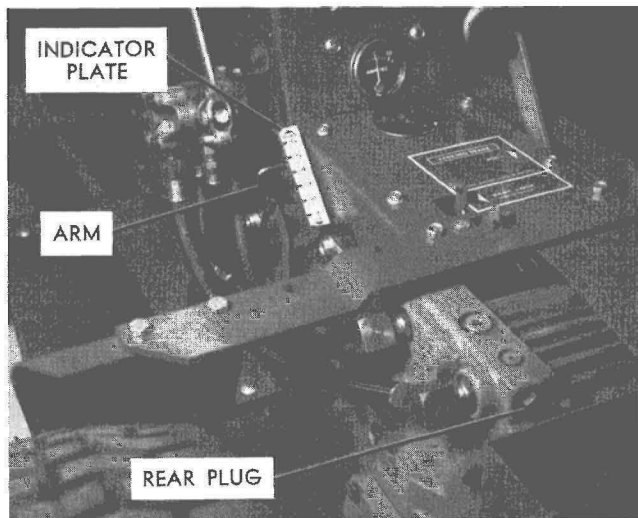
PARTS LIST AND INSTRUCTIONS

HYDRAULIC LIFT MODEL 8-4113

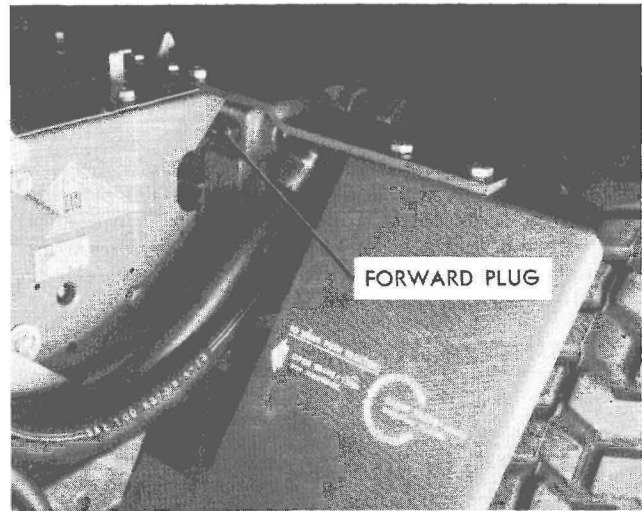
DESCRIPTION

The hydraulic lift is designed to provide hydraulic power for raising and lowering attachments by finger-tip control. This unit operates with hydraulic pressure supplied by a piston-piston type hydrostatic transmission.

Tractor models with a hydrogear type transmission require Service Assembly 101668 to facilitate installation of this hydraulic lift.



(FIG. 1)



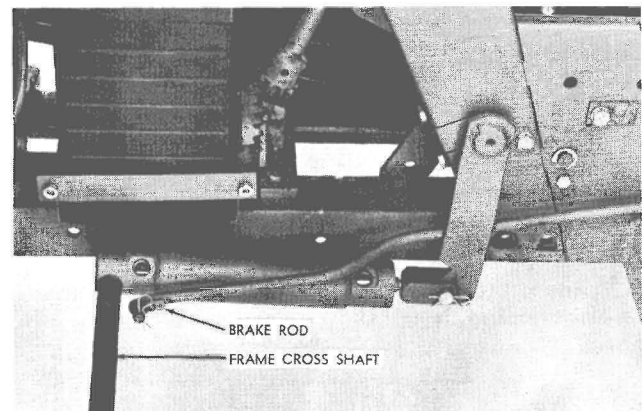
(FIG. 2)

(25) in the cavity. Place the spring removed in step 2 in the cavity after the ball. Thread in the new plug (26) with o-ring. If it does not go in easily the spring may not be properly seated. **DO NOT FORCE.**

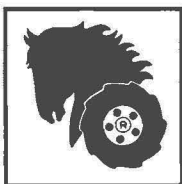
- Using sandpaper or emery cloth, remove the paint from the frame cross shaft (see Fig. 3). Use an Allen wrench to remove the collar. Remove the foot pedal, bushings and both spacers.

INSTALLATION

- Remove the left hand foot rest.
- Using a $\frac{5}{8}$ wrench, remove the plug and spring from the upper rear corner of the transmission. Do not lose any shims that might be inside the plug. Save the spring for later use; leave the cone valve in place. (See Fig. 1)
- Place the new spring (item 2) in the opening where the plug was removed, then replace the plug and shims. **CAUTION:** If the plug does not thread in easily, the spring and cone valve are not all the way in. **DO NOT FORCE PLUG.** If no shims were inside the plug, insert the two thick shims from the shim set (3).
- Remove the plug from the upper forward corner as shown in Figure 2. Discard plug. Place ball



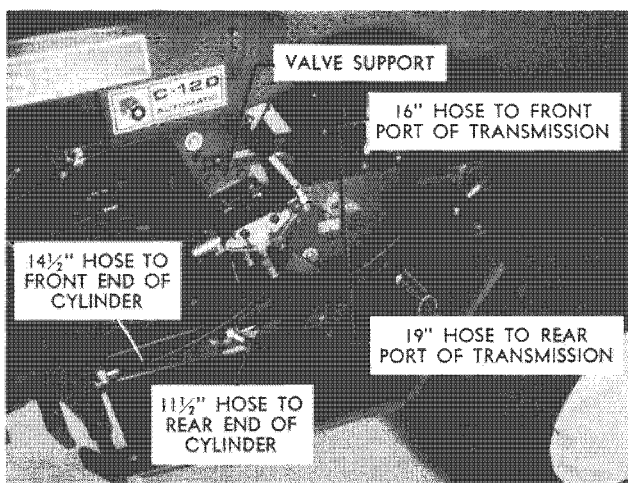
(FIG. 3)



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6. Remove the height control quadrant. Remove the lift assembly. First pull the two hairpin cotters, then remove the three bolts and lockwashers. Remove the three clips securing wires in the area. Disconnect the attachment lift at the lift assembly. Now the assembly can be worked free from the tractor.
7. Install the new lift arm assembly (1) inside the hoodstand with the two hairpin cotters. The right hand hairpin can be inserted in the lift arm assembly before installing it. Be sure the loops on the hairpins face the front of the tractor after insertion. Replace bolts and lockwashers. Reconnect the attachment lift bar to the new lift assembly.
8. **NOTE:** Position the brake rod behind the lift arm as shown in Fig. 3. Slide the spacer (7) over the frame cross shaft, followed by the cylinder (4) with the fitting holes facing out. Fasten the cylinder rod clevis to the lift arm with the clevis pin (5) and two cotter pins (6).



(FIG. 4)

9. Mount the knob (8) on the valve lever with the Whizlock bolt (13). Attach the hose assemblies to the valve as shown in Fig. 4. All hoses must be connected as indicated to assure proper operation of the lift. Bind the hoses with the plastic tie (31) about two inches below the valve.
10. Fasten the valve support (9) to the valve using the hex bolts (10) and nuts (11). Fasten the valve assembly to the tractor with the bolts and lockwashers that were used to hold the quadrant. See Fig. 4.
11. Mount the indicator plate (20) on the hoodstand, positioning it as shown in Fig. 1. Attach the

indicator arm (21) to the lift arm shaft with the screw (22), lockwasher (24) and washer (23). See the exploded view parts drawing.

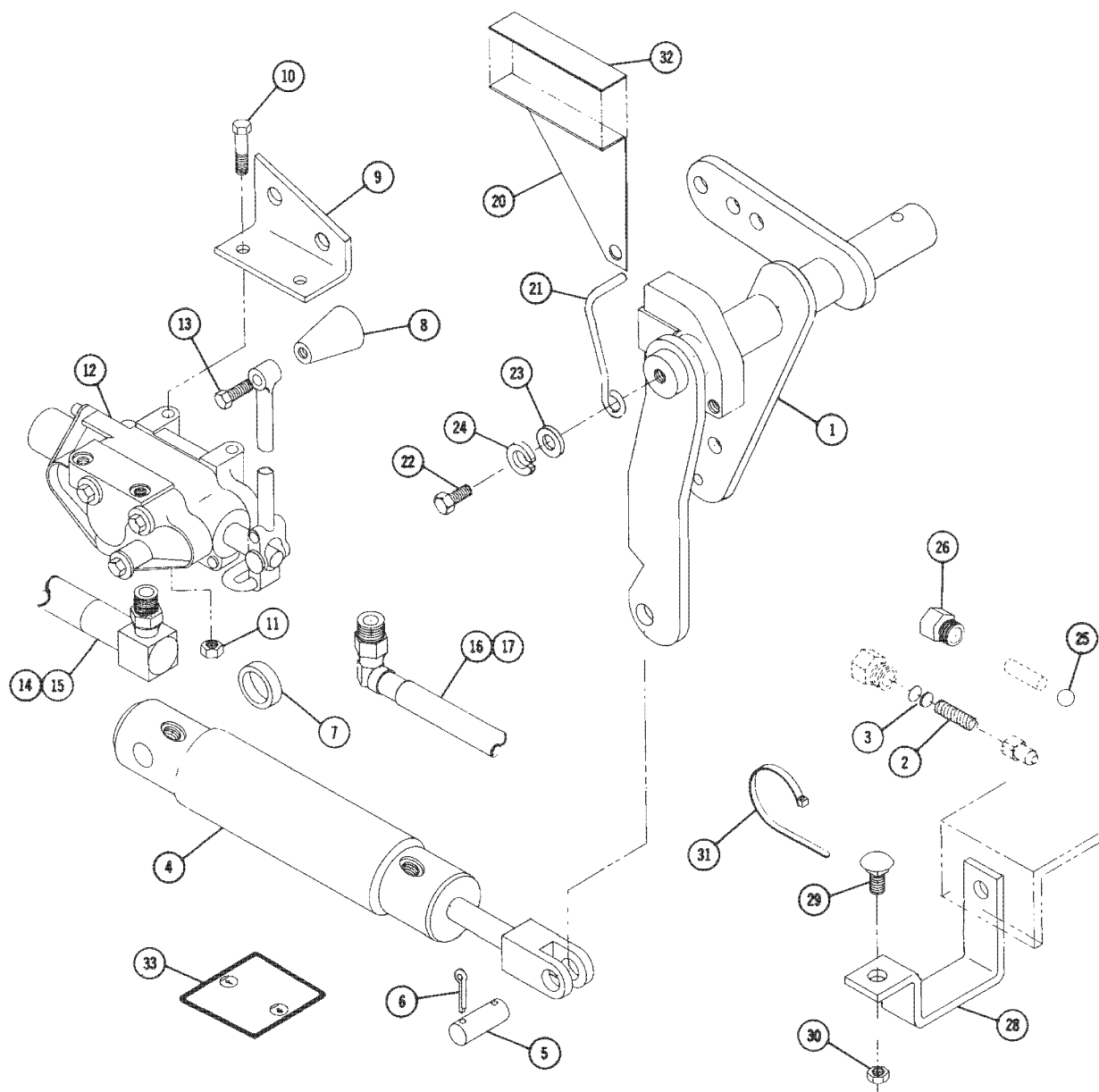
12. Now connect the hoses to the transmission ports and cylinder holes as shown in Figs. 1 and 4. Place the small spacer removed earlier back on the frame cross shaft. Replace the foot pedal and bushings and fasten the brake rod to it.
13. Mount the footrest bracket (28) on the tractor frame. The bracket fits on the inside lip of the frame and lines up with the rear hoodstand mounting hole and a hole in the footrest. See exploded view drawing. Fasten the footrest back in place. Note that the footrest is now spaced out one hole on the footrest bar to allow room for the cylinder. The hoses should run along the outside of the footrest flange as shown in Fig. 4.
14. Start the tractor. Move the valve lever up and down several times to clear the system of air. Adjust the indicator arm to correspond with the decal. When the cylinder rod is retracted the indicator arm should point to the "UP" position. Check for leaks at all fittings. Check the fluid level in the transmission. **CAUTION: Use only 10W-30 or 10W-40 premium engine oil in the transmission.**
15. To check for a proper amount of pressure in the system, connect a pressure gauge at the $\frac{1}{4}$ " pipe plug located between the hose ports of the transmission. The alternate straight thread port located above the pipe plug may also be used. Pressure should check at between 550 and 700 PSI when the piston has reached the end of its stroke. If pressure checks below this range add one of the thin shims at a time until proper pressure is attained. If no pressure gauge is available and the lift works adequately, it may be assumed that pressure is roughly within proper range. **CAUTION: If the hydraulic lift is ever disconnected from the tractor, the cones and springs must be returned to their original positions to prevent excess pressure build-up in the system. Simply reverse the steps found at the beginning of these instructions.**

OPERATION

All attachments that normally work off the tractor lift lever will operate in the same way with this hydraulic lift.

IMPORTANT: Never run the lift without fluid or the warranty will be voided.

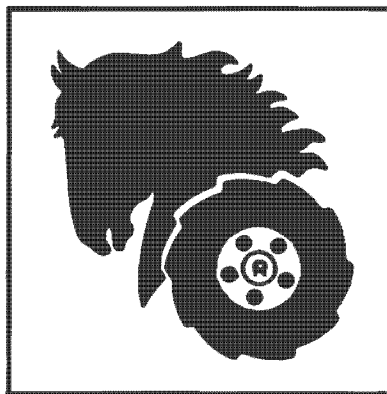
If the unit is ever dismantled for service, make sure all parts are clean before putting it back together. After servicing it is advisable to install new fluid.



PARTS LIST — HYDRAULIC LIFT MODEL 8-4113

When ordering parts always list Part No. and Description.
(Specifications subject to change without notice.)

Item No.	Part No.	Description	No. Req'd	Item No.	Part No.	Description	No. Req'd
1	6615	Lift Arm Assembly	1		973370	O-ring, .468 I.D. x .078	4
2	103110	Valve Spring	1		973310	O-ring, .414 I.D. x .072	4
3	103574	Shim Set	1	20	6628	Indicator Plate	1
4	6618	Cylinder Assembly	1	21	6629	Arm	1
5	6619	Pin	1	22	910865	Screw, $\frac{5}{16}$ -18 x $\frac{3}{4}$ Pan Hd. Cr.	1
6	932017	Cotter Pin	2	23	920008	Washer — $\frac{5}{16}$ SAE	1
7	4064	Spacer	1	24	920082	Lockwasher — $\frac{5}{16}$	1
8	102892	Knob	1	25	103216	Valve Ball	1
9	6620	Valve Support	1	26	103217	Plug	1
10	908007	Bolt, $\frac{1}{4}$ -20 x $1\frac{1}{2}$ Hex	2		973310	O-ring, .414 I.D. x .072	1
11	915111	Nut, $\frac{1}{4}$ -20 Nylok	2	28	8007	Bracket	1
12	103204	Valve Assembly	1	29	900214	Bolt, $\frac{5}{16}$ -18 x $\frac{3}{4}$ Carriage	1
13	960154	Bolt, $\frac{1}{4}$ -20 x $\frac{7}{8}$ Whizlock	1	30	915662	Nut, $\frac{5}{16}$ -18 E.S.	1
14	103214	19" Hose Assembly	1	31	100571	Plastic Tie	1
15	103213	16" Hose Assembly	1	32	6630	Decal — Height Indicator	1
16	101422	14 $\frac{1}{2}$ " Hose Assembly	1	33	102948	Decal — Lift	1
17	101423	11 $\frac{1}{2}$ " Hose Assembly	1				



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