



Hydraulic Lift Circuit

TL 3937

Key to Hydraulic Lift Circuit

1. Transmission case - oil reservoir.
2. Oil strainer.
3. Hydraulic pump - auxiliary section.
4. Hydraulic pump - steering system.
5. Supply to steering section.
6. Supply to auxiliary control valve.
7. Hydraulic pump - lift system.
8. Shock valve.
9. Lift cylinder.
10. Lift arms.
11. Solenoid valve.
12. Selector valve.
13. Supply to auxiliary control valve (combined flow).
14. Pressure relief valve (selector valve).

Lift Hydraulics

HYDRAULIC LIFT COVER CAB TRACTOR

Removal and Refitment

1-9A

Special Tools:

MF.418A *Lift Cover Remover/Replacer*

Removal

1. Remove the driver's seat.
2. Remove the bolts from the parking brake bracket.
3. Remove the trim panel from under the seat.
4. Remove the bolts securing the hydraulic control shaft brackets to the removable panel.
5. Remove the panel in the seat deck.

Rear of the Tractor

6. Disconnect the lift linkage and assistor cylinders, if fitted, from the lift arms.
7. Remove the draft sensor from the control beam.
8. Remove the auxiliary hydraulic control rods between the control shafts and valve.
9. Disconnect, and remove where necessary, the hydraulic control valve pipes.
10. Remove the four bolts and lift off the control valve assembly.
11. Remove the trailer electrical socket.

Left-hand side of the Tractor

12. Disconnect the assistor cylinder pipes.
13. Disconnect and remove the selector valve pipes.

Right-hand side of the Tractor

14. Disconnect the selector valve control cable.
15. Disconnect combined flow pipe to the selector valve.
16. Disconnect the dipstick from the lift cover.
17. Disconnect the hydraulic pipe to the selector valve.
18. Disconnect the electrical connections to the solenoid valves, and position sensor.
19. Disconnect the hydraulic trailer brake connector bracket and move the pipe away.
20. Remove all the bolts around the lift cover.
21. Fit special tool MF.418A Lift Cover Remover/Replacer, to the top of the lift cover.
22. Couple-up a small portable jib crane to MF.418A, coupling as close as possible.
23. Carefully lift up the lift cover keeping it horizontal until the lift cylinder is clear of the transmission casing.
24. Remove the lift cover to a suitable work bench.

Refitment

25. Reverse procedures 1 to 24 except:
 - a. Apply Multi-Gasket (Loctite 573) to the face of the center housing and the control valve housing.
 - b. The use of two guide studs (7/16 in - 14 UNC) fitted on each side of the transmission casing will help in locating the cover in the correct place.
 - c. Tighten the lift cover bolts to a torque of 95 Nm (70 lbf ft).
 - d. Carry out adjustment to the position sensor, (see *operation 2-11B*).