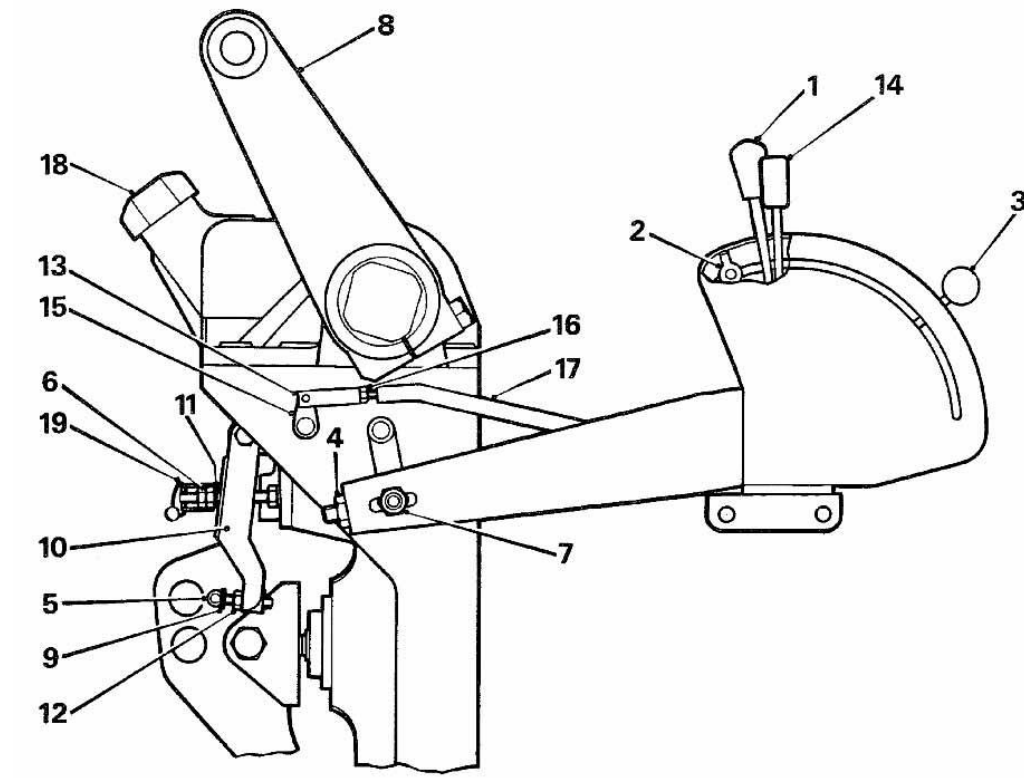


## **LEYLAND TRACTOR HYDRAULIC UNIT CONTROLS**

*If the sequence for changing from position control to draught control isn't followed as per the tractor handbook the [rack tooth](#) will jump or jam. To stop this happening the complete adjustment procedure must be followed as described in the workshop manual.*



*Leyland hydraulic controls components*

- |                                 |                                   |                             |
|---------------------------------|-----------------------------------|-----------------------------|
| 1. Main control lever           | 8. Lift-arm                       | 14. Auxiliary control lever |
| 2. Control lever stop           | 9. Actuator screw                 | 15. Auxiliary lever         |
| 3. Position and draught lever   | 10. Actuating lever               | 16. Locknut for clevis      |
| 4. Channel adjusting nut        | 11. Washer                        | 17. Auxiliary link rod      |
| 5. Actuator pin                 | 12. Locknut for actuator pin      | 18. Lift latch              |
| 6. Locknuts for actuating lever | 13. Clevis for auxiliary link rod | 19. Locknuts cover tube     |
| 7. Channel adjustment locknut   |                                   |                             |

### **Hydraulic adjustment on Leyland tractors with draught control**

1. Ensure that the main control lever is against the stop.
2. Select 'POSITION' and 'DRAUGHT' control; ensure that the lever is moved to its fullest extent.
3. Attach a clock gauge calibrated in thousandths of an inch to the hydraulic unit with its operating pin against the channel adjusting nut, and set the gauge to zero.
4. Move the main control lever about 1 inch (25 mm) along the quadrant and then return the lever to its stop. Check that the zero reading on the clock gauge is constant.
5. Select 'DRAUGHT' control.
6. Repeat operation 4. The clock gauge should return to within 0.008 inch of the zero reading.
7. If the clock gauge reading is satisfactory, the quadrant control is correctly adjusted.

8. If the reading in operation 6 is not within limits, adjust the main control lever stop and repeat operations 1 to 6 inclusive until the results are satisfactory.
9. Remove the clock gauge.
10. Remove the actuator pin and locknut cover tube, and then screw in fully the locknuts for the actuating lever.
11. Start the engine, run it at tick-over speed, and engage the hydraulic pump.
12. Select 'POSITION' control.
13. Slacken the channel adjustment locknut.
14. With the main control lever fully against its stop in the 'LIFT' position, turn the channel adjusting nut clockwise until the lift-arms reach the fully lifted position and the hydraulic relief valve can be heard to just commence to operate.  
**NOTE:** If the relief valve operates before operation 14 is reached turn the channel adjusting nut anti-clockwise until the valve stops operating, and then continue the adjusting procedure.
15. Back off the channel adjusting nut anti-clockwise five complete turns and then turn it clockwise one complete turn.
16. Tighten the channel adjustment locknut.
17. Select 'DRAUGHT' control, then move the main control lever slowly down the quadrant until the relief valve just begins to operate.
18. Unscrew the actuating lever locknuts until the relief valve just ceases to operate, and then turn the locknuts clockwise until the valve just commences to operate.
19. Tighten the locknuts, then refit the cover tube and locking wire.
20. Check that the relief valve stops operating when the main control lever is moved a further 1 inch (25 mm) down the quadrant.
21. Refit the actuator pin, slacken the actuator screw locknut, and adjust the screw until there is a clearance of 0.100 inches (2.54 mm) between the actuating lever and the washer. Tighten the actuator screw locknut.
22. Disconnect the auxiliary link-rod clevis from the auxiliary lever.
23. Move the auxiliary control lever into its full 'LIFT' position.
24. Move the auxiliary lever to its farthest forward position towards the quadrant.
25. Slacken the clevis locknut and adjust the clevis on the link-rod until the holes in the clevis line up correctly with the hole in the auxiliary lever.
26. Refit the clevis pin and tighten the clevis locknut.

These instructions are applicable to draught control hydraulics on the following Leyland tractors:

[Leyland 253 Hydraulics](#)

[Leyland 245 Hydraulics](#)

[Leyland 344 Hydraulics](#)

[Leyland 384 Hydraulics](#)

[Leyland 255 Hydraulics](#)

[Leyland 270 Hydraulics](#)

[Leyland 262 Hydraulics](#)

[Leyland 272 Hydraulics](#)

[Leyland 462 Hydraulics](#)

[Leyland 472 Hydraulics](#)

[Leyland 282 Hydraulics](#)

[Leyland 482 Hydraulics](#)

[Leyland 502 Hydraulics](#)