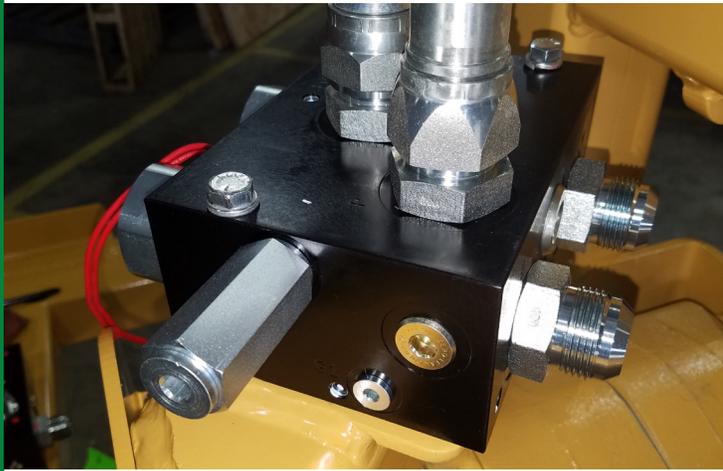


TECH TIPS



CHECKING PUMP UNLOADING VALVE RELIEF

PROBLEM: **Mower head not cutting properly**

The pump unloading valve relief setting can occasionally be too low. This will cause oil to prematurely go over the relief and cause the attachment head to “bog down” or not cut efficiently. An incorrectly set relief will also cause the oil to heat up and lose its lubricating properties.



TOOLS NEEDED

- 1 1/2" WRENCH
- ALLEN WRENCHES
- 4000 PSI TEST GAUGE
- (2) 1" FJIC CAPS



TRACTOR MODEL OR ATTACHMENT

All models of mower



SAFETY:

Turn off the mower and allow the fluid to cool prior to removing hoses or plugs. Remove hoses slowly as fluid may be under pressure.

STEP BY STEP INSTRUCTIONS ARE ON THE FOLLOWING PAGE

MOWER HEAD NOT CUTTING PROPERLY



STEP 1:

- Run the attachment for a few minutes to warm the oil as cold oil will produce a false reading.
- Remove the G1 port plug and attach a pressure gauge of at least 4000psi.



G1 port plug

STEP 2:

- Remove the deck feed hoses and cap the fittings at the unloading valve.
- You need to create a “dead head” situation so that the fluid will pass over the internal relief.



Cap output fittings

STEP 3:

- Start the tractor, speed the engine up to 2200 rpm and turn on the mower switch.
- The tractor’s engine will bog down – this is normal.
- Check the pressure on the gauge – it should read 3250 psi (+/- 100 psi).
- Turn off the mower switch.
- Keep test procedure times short as running over the internal relief will cause the fluid to heat up quickly.
- If the reading is outside of the recommended parameters, turn the tractor off and remove the cap on the relief valve spool.
- To raise the pressure, turn the inner screw in.
- To lower the pressure, turn it out. Only move the screw quarter of a turn at a time as a slight adjustment can have a big impact.



Remove relief cap and insert Allen wrench

**FOR MORE INFORMATION, CALL OUR WARRANTY/SERVICE TEAM AT
(605) 977-3300 OR TOLL FREE AT (888) 960-0364
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