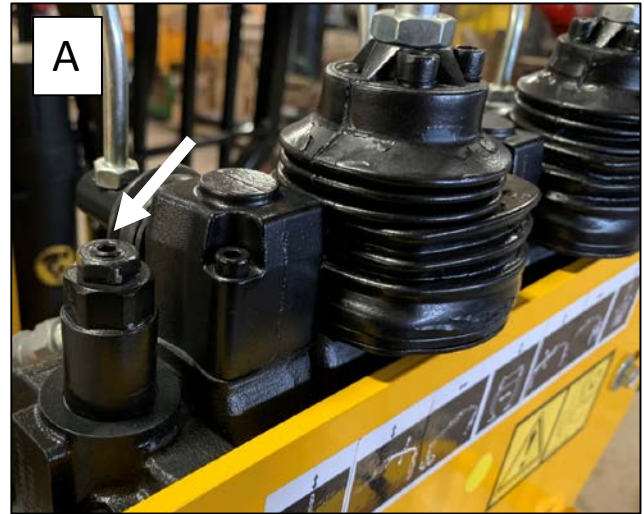


Pressure adjustments on a M-140 & M-160

1. Install the 2 hydraulic hoses to the tractor. The hose on the relief valve side must be plugged to the tractor's pump side and the pressure gauge has to be plugged on that line. The other hydraulic hose goes on the tank side to the tractor.
2. A minimum of 3000 psi from the tractor is needed for the next steps. With a 13 mm wrench, unscrew the relief valve lock nut (A) then, with a 4 mm Allen wrench, screw completely the Allen screw.



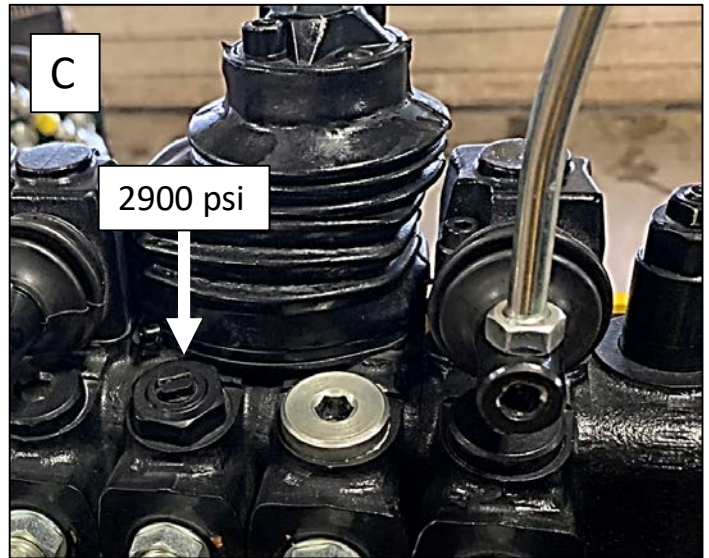
Note: If you are in repair mode (without pressure-gauge) or the tractor is unable to get 3000 psi, each port relief has an approximate amount of turns to unscrew from totally screwed.

3. Proceed to the pressure adjustment of the stick in lifting and lowering mode. For it, follow the steps 4 and 5. The position as illustrated in the picture B will be necessary.

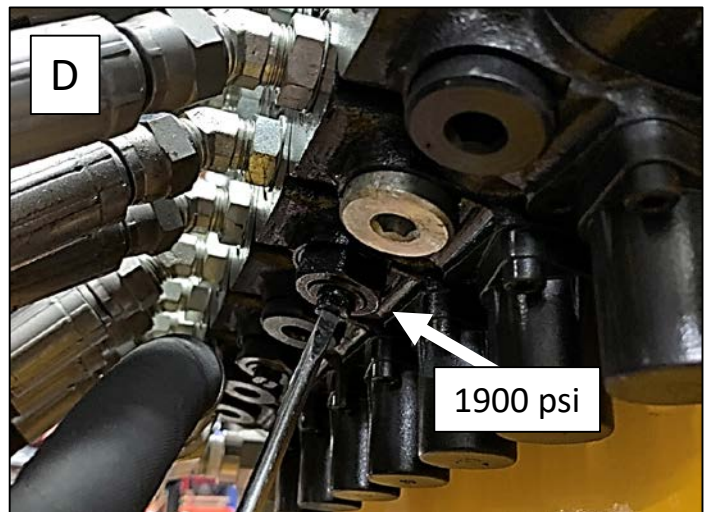


Pressure adjustments on a M-140 & M-160

4. Push on the big arm of the left side until the end of stroke in order to force. Adjust the 3rd port relief from above (C) until obtained 2900 psi (2 ¼ turns).



5. Pull on the big arm on the left side until the end of stroke in order to force. Adjust the 3rd port relief from below (D) until obtained 1900 psi (2 ¾ turns).



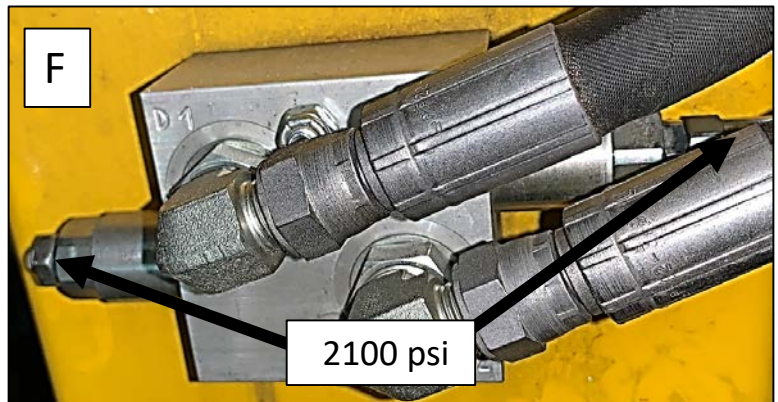
6. Proceed to the pressure adjustment of the boom arm. Pull on the big arm of the right side until the end of stroke in order to force. Adjust the 5th port relief from below (E) until obtained 2900 psi (2 ¼ turns).



Pressure adjustments on a M-140 & M-160

7. Proceed to the pressure adjustment of the rotation. Turn the left big arm to the right side until the end of stroke in order to force. The relief valve is lower on the block valve support (F). With a 13 mm wrench, unscrew the lock nut then adjust with an Allen 4 mm wrench the adjustment screw of the left side until obtained 2100 psi (4 ½ turns). Turn the big arm to the opposite side and make the same process with the right adjustment screw until obtained 2100 psi (4 ½ turns).
8. Adjust the main relief valve (A) pulling on the center arm (grapple closing) until the end of stroke in order to force. Adjust at 2450 psi (3 ¼ turns). Screw on the lock nut.

To make sure the functioning speed is ok, the grapple opening or closing should be around 1.7 seconds.



Tool needed:

- Wrench 13 mm (1/2)
- Allen wrench 4 mm (5/32)
- Flat screwdriver
- Pressure gauge (min 3000 psi)

Required time: 30 min.

