

Hydraulic Pressure Relief Valve Installation

Document Number	Kit Number / Part Number	Model	Serial Number Range
12-80025		520M / 520Y	XXXXXX

⚠ WARNING

Before making repairs or adjustments set the parking brake, turn off the engine, and remove the ignition key.

Always disconnect the negative battery cable from the battery when working with electrical components. Always work in a manner that does not put safety at risk!

⚠ WARNING

Safety glasses must be worn during installation. Ear (hearing) protection must be worn when using air or power tools.

Installation Notes: Right and left hand orientation referred to in these instructions is determined as if facing forward from the operator station.

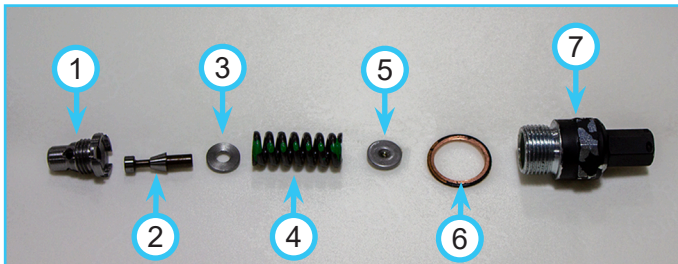
Installation Time (estimated)

1 hour

Tools Required: 3/8" Wrench, 3/8" Socket, 7/16" Wrench, 7/16" Socket, 1/2" Wrench, 24mm Deep Well Socket, Ratchet, 10mm Hex Key, 6mm Hex Key, Spanner Socket

The following instructions describe how to install a pressure relief valve into the Tilmor 520 series tractor hydraulic two spool control valve. This update is being implemented to reduce any build up of pressure that may cause damage to the tractors hydraulic system.

1. Park the tractor on a level surface.
2. Lower the front and rear hitches to the lowest position.
3. Engage the parking brake and shut off the engine.
4. Remove the key from the ignition switch.



Kit Contents

Part #	Description	Qty.
1	Seat	1
2	Plunger	1
3	Washer	1
4	Spring	1
5	Dimple Spacer	1
6	Crush Washer	1
7	Cap	1

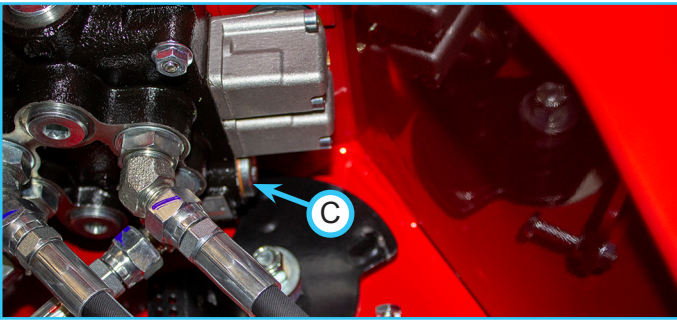
5. Remove the outer console cover (A) by removing the seven 1/4" bolts located around the perimeter of the cover.



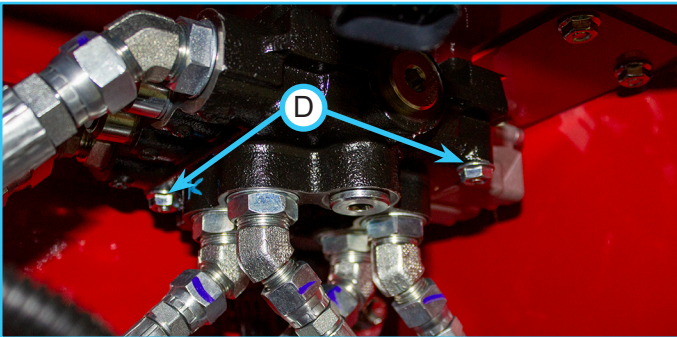
6. Remove the valve control levers (B).



7. Loosen the valve port plug (C).



8. Remove the spool valve mounting hardware (D).

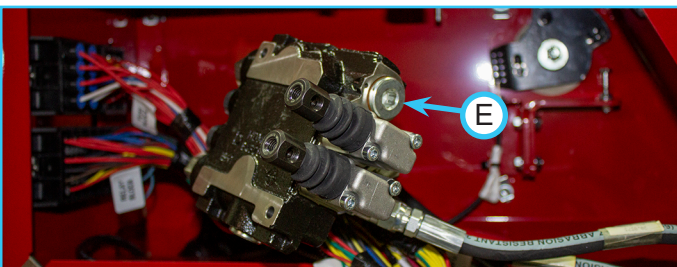


9. With the valve loose, position the valve so that the pressure relief port is fully accessible.

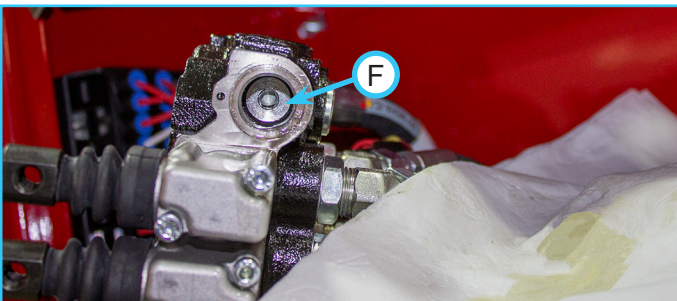
⚠Attention

When the pressure relief port plug is removed a small amount of hydraulic fluid will leak out of the valve. Proper personal protective equipment should be worn at all times.

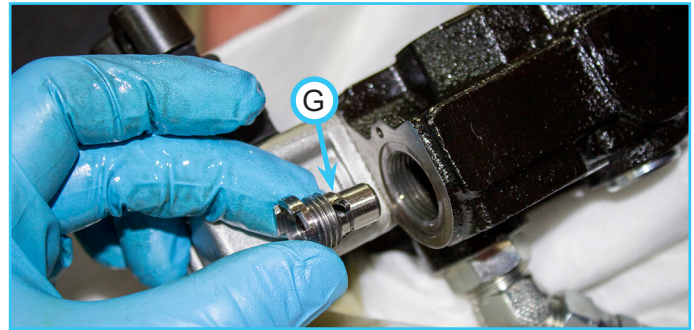
10. Place a drip pan or towels under the port.
11. Remove the pressure relief valve port plug (E) and crush washer. Discard the plug and crush washer.



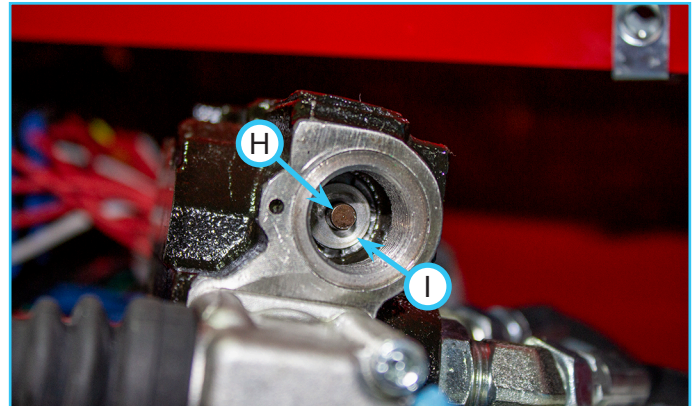
12. Remove the inner plug (F) and crush washer from the port. Discard the plug and crush washer.



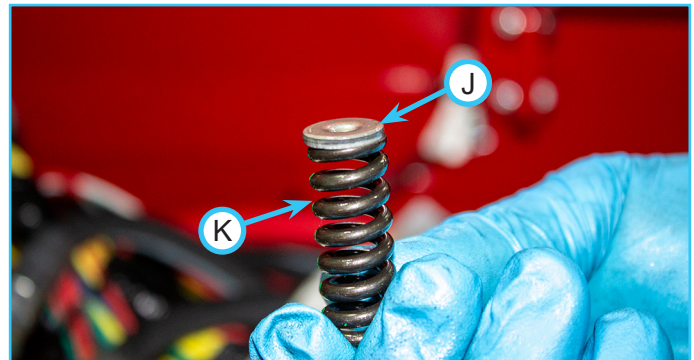
13. Install the seat (G) into the valve body. Using the spanner socket.



14. Install the plunger (H) into the valve body, followed by the washer (I). Ensure that the flat portion of the washer will contact the spring.



15. Position the dimpled spacer (J) on top of the spring (K) with the dimple down as shown below



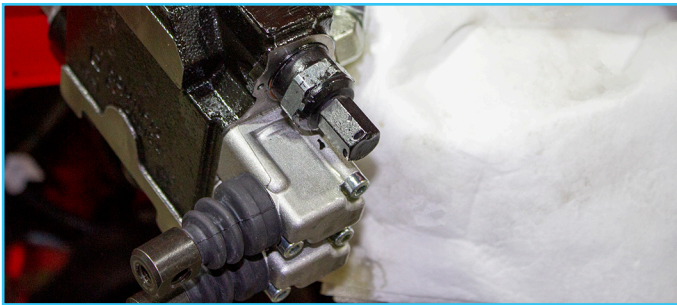
16. Place the cap (L) on top of the spring and dimple spacer assembly as shown below.



17. Place the crush washer (M) on the cap.

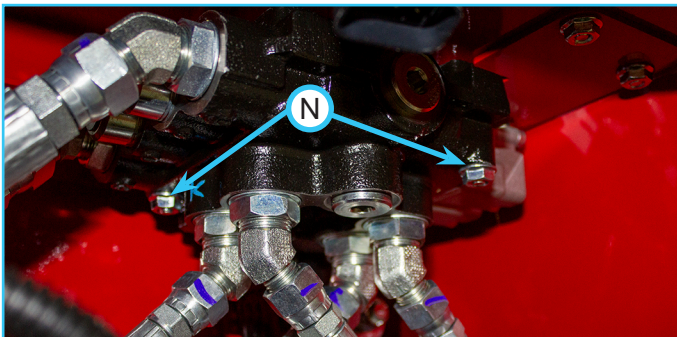


18. Install the plug into the valve body. Ensure that the crush washer is seated in the valve body evenly.



19. Position the two spool valve into the console aligning the mounting holes.

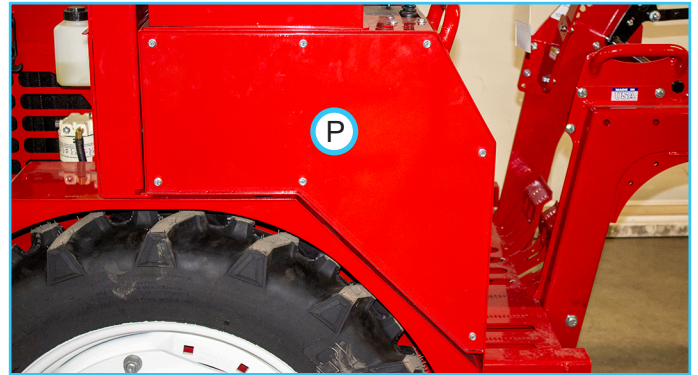
20. Install the mounting hardware (N).



21. Install the valve control levers (O).



22. Install the console cover (P).



23. Torque the Torque the 1/4" bolts to 100 in-lbs (11Nm).

Installation Complete