

Hydraulic System Fluid and Filter Replacement

Document Number	Model	Serial Number Range	Part Number
12-80017	520Y/520M	All Units	Filter # 21-0078

⚠ 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: 1/4" Hex key, Drain Pan, Funnel

⚠ CAUTION

Contact with engine oil can irritate your skin. Wear protective gloves when working with engine oil. If you come in contact with engine oil, wash it off immediately.

⚠ CAUTION

Oil is hazardous to the environment. Drain engine oil into an approved container. Dispose of used engine oil in accordance with local laws.

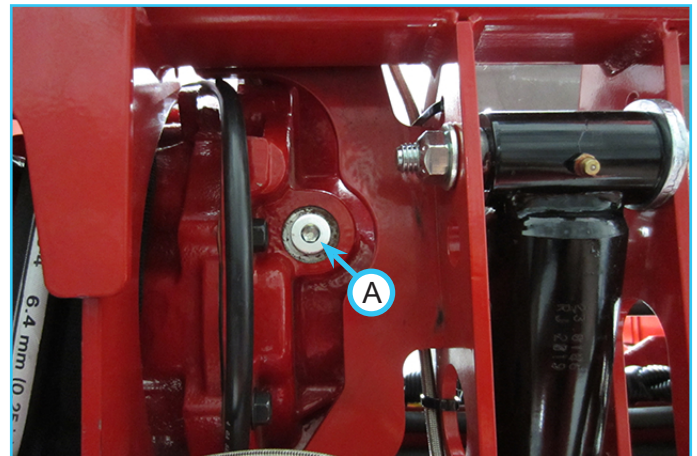
1. Park the tractor on a level surface.
2. Fully raise the mid mount hitch and the rear hitch.
3. Engage the parking brake and shut off the engine.
4. Remove the key from the ignition switch.

⚠ WARNING

Hot oil can cause severe burns. Allow the oil temperature to drop from hot to warm before draining the hydraulic oil.

5. Place a drain pan under the 2-speed transmission.

6. Remove the drain plug (A) from the 2-speed transmission and allow the hydraulic oil to drain from the transmission. Loosen the cap on the hydraulic fluid reservoir to allow venting.



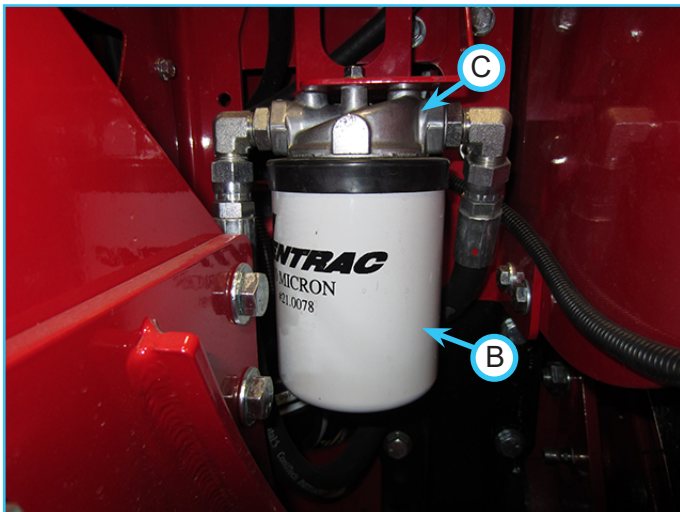
7. Clean the drain plug ensure that the rubber seal is clean and free of debris.

⚠ CAUTION

Do not over tighten the 2-speed transmission plug. Over tightening the plug could damage the transmission.

8. When all of the oil has drained from the 2-speed transmission reinstall the drain plug into the 2-speed transmission.
9. Clean up any spilled oil and dispose of oil in accordance with local laws.
10. If the hydraulic oil filter is not being changed advance to step 18 of this procedure.

- Clean the area around the hydraulic filter (B) and filter head (C).



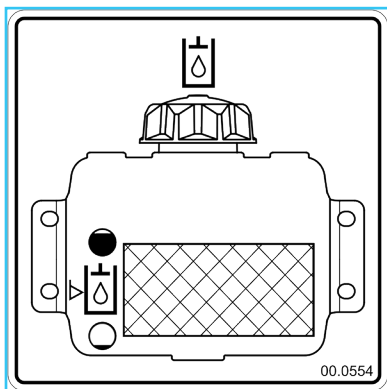
- Place a drain pan under the hydraulic filter.
- Using a strap type filter wrench remove the hydraulic filter from the filter head.
- Ensure the mounting surface is clean.
- Apply a thin film of hydraulic oil to the gasket of the new hydraulic oil filter.
- Screw the filter onto the filter head until; the gasket makes contact with the mounting surface. Tighten the filter and additional 3/4 of a turn (may require using a strap type filter wrench).
- Clean up any spilled oil and dispose of oil and filters in accordance with local laws.



Attention

Check the Specifications section of the tractor Operators manual for hydraulic oil specifications and capacities.

- Add approximately 6.5 qts. of Mobifluid 424 to the hydraulic fluid reservoir until the fluid reaches the proper range indicated by the oil level decal. It may take some time for the fluid to drain into the 2 speed transmission.



- When the hydraulic fluid is at the proper range, wait for approximately 60 minutes.

- Check the hydraulic fluid reservoir level if the hydraulic fluid level is within the acceptable range start the tractor and let it run at low idle engine speed for a few minutes. If the fluid is not in acceptable range add hydraulic fluid to the reservoir.
- Raise the front and rear hitch arms to purge any air from the hydraulic system.
- Shut off the tractor and allow it to sit for a minimum of five minutes.



Attention

The hydraulic fluid level in the reservoir may decrease as air escapes from the hydraulic system. Check the hydraulic fluid level before each use.

- Check the hydraulic fluid level, add fluid as required.