

Engine Oil and Filter Replacement

Document Number	Model	Serial Number Range	Part Number
12-80015	520Y	All Units	Filter 13-0267

⚠ 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, Ratchet, Torque wrench, 11" flexible 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

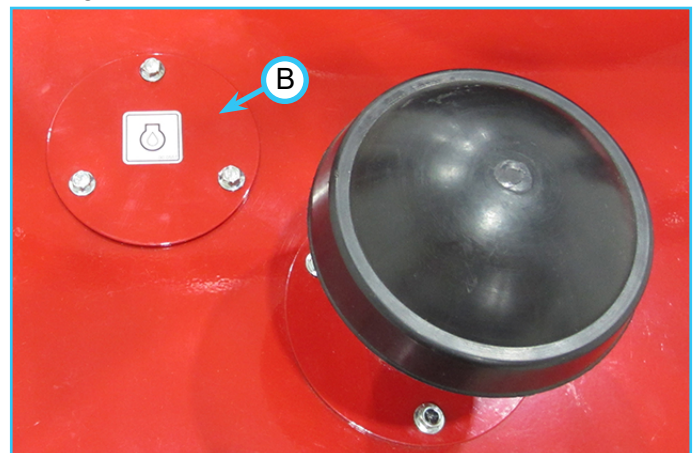
Oil is hazardous to the environment. Drain engine oil into an approved container. Dispose of used engine oil in accordance with local laws.

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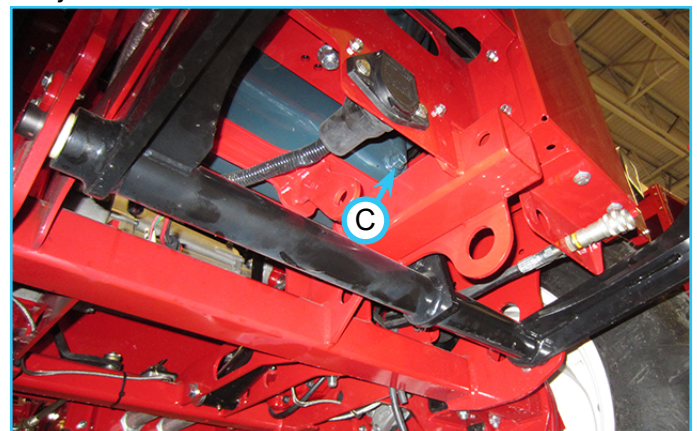
1. Check the engine owners manuals for service intervals.
2. Start the tractor and allow it to run until the engine reaches operating temperature.
3. Park the tractor on a level surface.
4. Engage the parking brake and shut off the engine.
5. Remove the key from the ignition switch.
6. Remove the air deflector plate (A) located behind the operators seat, by removing the four 1/4" bolts to access the oil filter.



7. Remove the oil fill cap access cover (B) by removing the three 1/4" bolts.



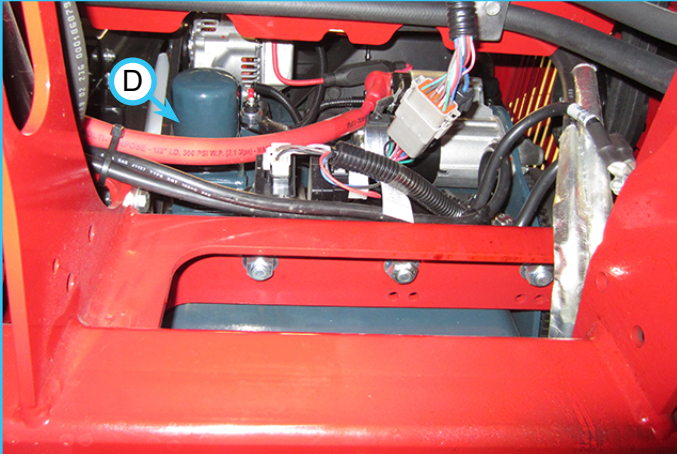
8. Place a drain pan under the oil drain (C). Located just above the receiver hitch.



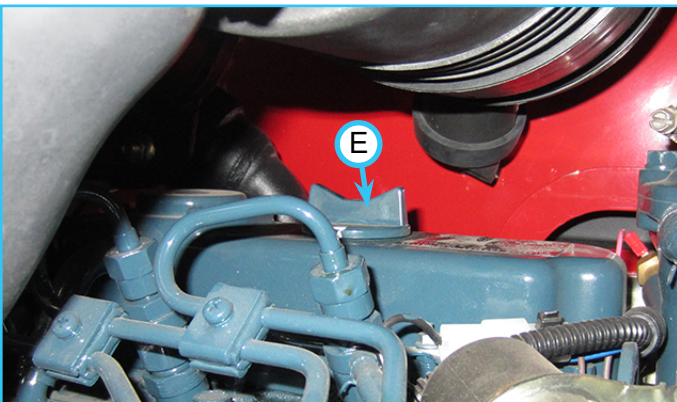
⚠ WARNING

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

9. Remove the drain plug from the oil drain and drain the oil into the pan while the oil is warm.
10. When the oil has completely drained from the engine, install the engine oil drain plug.
11. Remove the engine oil filter (D). The filter can be accessed from underneath the tractor.



12. Wipe the oil filter mounting surface with a clean cloth.
13. Apply a thin film of clean oil to the gasket of the new oil filter.
14. Install the filter turning it clockwise until the gasket makes contact with the mounting surface. Tighten the filter 1/2 to 3/4 of a turn more by hand.
15. Open the engine access door and remove the engine oil fill cap (E).



16. Route an 11" flexible funnel through the oil fill access point and around the muffler to the engine oil fill point.



17. Add oil to the engine until the oil reaches the upper limit of the oil level gauge on the dipstick. (Refer to the Engine Owner's Manual for proper oil specifications and capacity.)
 18. Install the oil fill cap and wipe up any oil spills.
 19. Start the engine and run at slow idle for 2 to 3 minutes.
 20. Shut the engine off and remove the key from the ignition switch.
 21. Check for leaks around the oil filter.
 22. Check the engine oil level after allowing the engine to cool for approximately 2 minutes. Add oil, if necessary.
 23. Reinstall the engine oil fill cap access cover. Torque the 1/4" bolts to 100 in-lbs (11 Nm).
 24. Reinstall the air deflector plate. Torque the 1/4" bolts to 100 in-lbs (11 Nm).
 25. Close and secure the engine access door.
- End of Procedure**