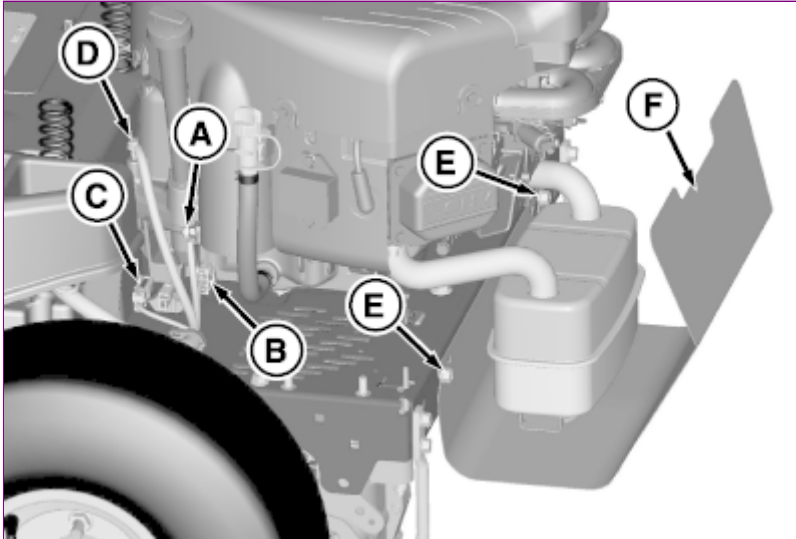


TM140319 - Z335E, Z355E ZTrak Mower (S.N. 010001-) Remove Engine

Remove Engine



MXT005458-UN: Engine and Clutch Wire Harness Connector

LEGEND:

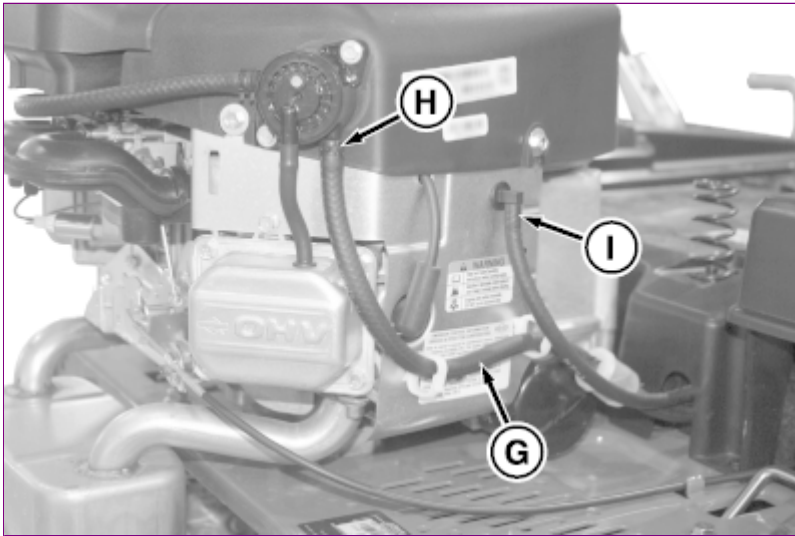
- A - Starter Terminal
- B - Engine Wire Harness Connector
- C - Clutch Wire Harness Connector
- D - Screw
- E - Screws
- F - Muffler Shield

1. Park machine safely. See the "Safety Section".
 2. Raise seat.
 3. Remove battery access cover and disconnect negative (—) battery cable.
 4. Drain engine oil into a suitable container. (Oil capacity with filter is approximately **1.9 L (2.0 US qt)** .)
 5. Remove engine guards. (See [Remove and Install Engine Guard](#) .)
 6. Disconnect wire from starter terminal (A).
 7. Unplug main wire harness to engine wire harness connector (B).
 8. Unplug main wire harness to clutch wire harness connector (C).
 9. Remove the cap screw (D) securing ground wires to engine block. Remove ground wires.
 10. Loosen two screws (E) and remove muffler shield (F).
-

**CAUTION:**

Avoid Injury! Fuel vapors are explosive and flammable:

- **Do not smoke while handling fuel.**
- **Keep fuel away from flames or sparks.**
- **Shut off engine before servicing.**
- **Cool engine before servicing.**
- **Work in a well-ventilated area.**
- **Clean up spilled fuel immediately.**



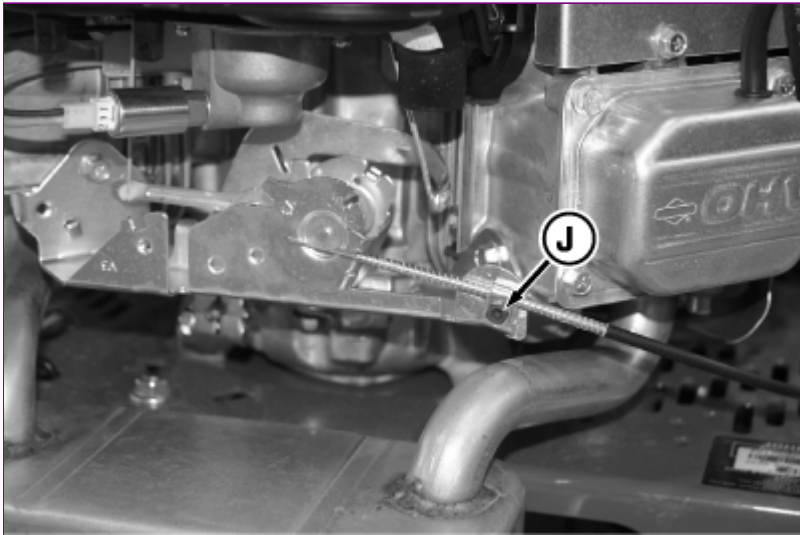
MXT005459-UN: Fuel and Vent Line

LEGEND:

- G - Fuel Line
- H - Clamp
- I - Vent Line

Remove fuel line (G) from clips.

12. Disconnect hose clamp (H) and slide fuel line off hose barb on fuel pump. Plug the fuel line.
13. Remove vent line (I) from barb fitting.

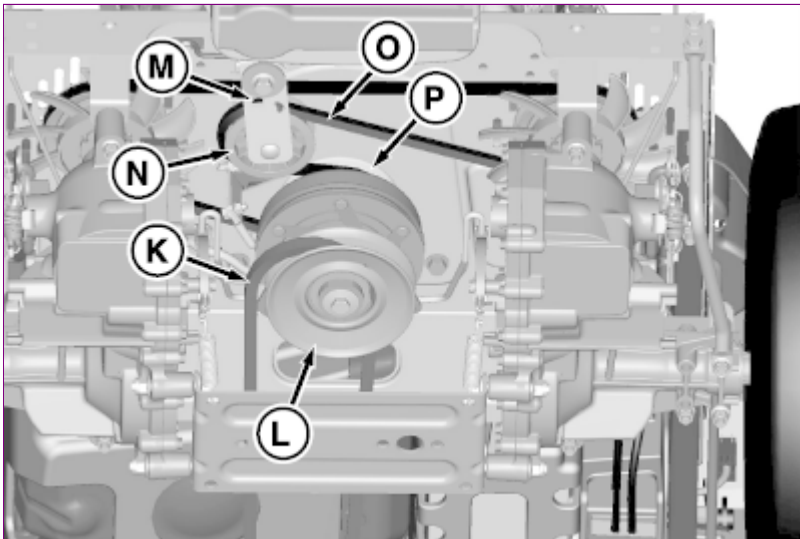


14. MXT005460-UN: Throttle Cable Clamp

LEGEND:

J - Clamp

Loosen retaining clamp (J) for the throttle cable. Disconnect cable.



15. MXT005461-UN: Belts

LEGEND:

K - Mower Drive Belt
L - Clutch Sheave
M - Hole
N - Idler Sheave
O - Traction Drive Belt
P - Engine Sheave

Pull mower drive belt (K) toward rear of machine. Remove belt from clutch sheave (L).

16.



CAUTION:

Avoid Injury! Spring is under tension. Wear eye protection and gloves.

Insert a 3/8 inch. ratchet or breaker bar into the square hole (M) on the idler arm. Rotate the spring-loaded idler arm to relieve belt tension on the idler sheave (N). Remove the traction drive belt (O) from the idler sheave. Release the spring tension from the arm and remove the tool.

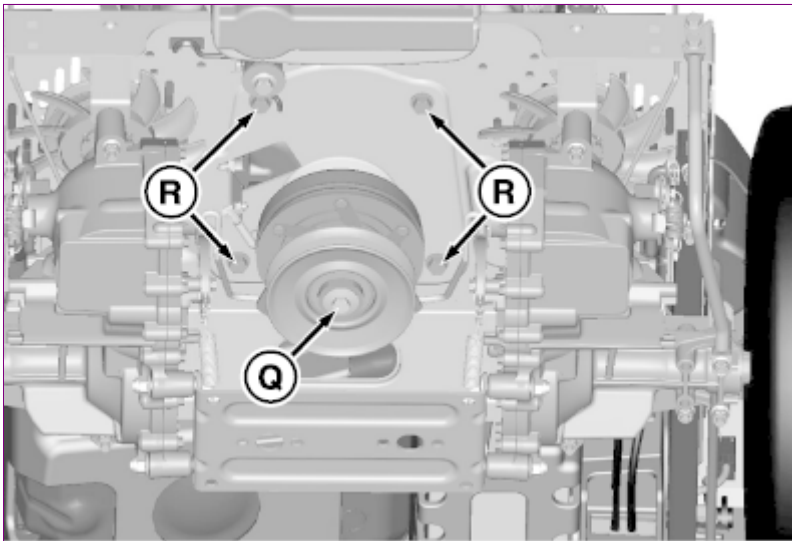
17. Remove the traction drive belt from the engine sheave (P).
-

18.



CAUTION:

Avoid Injury! Be prepared to support clutch if there is sudden release of clutch from engine crankshaft.



MXT005462-UN: Idler arm and pulley removed for clarity.

LEGEND:

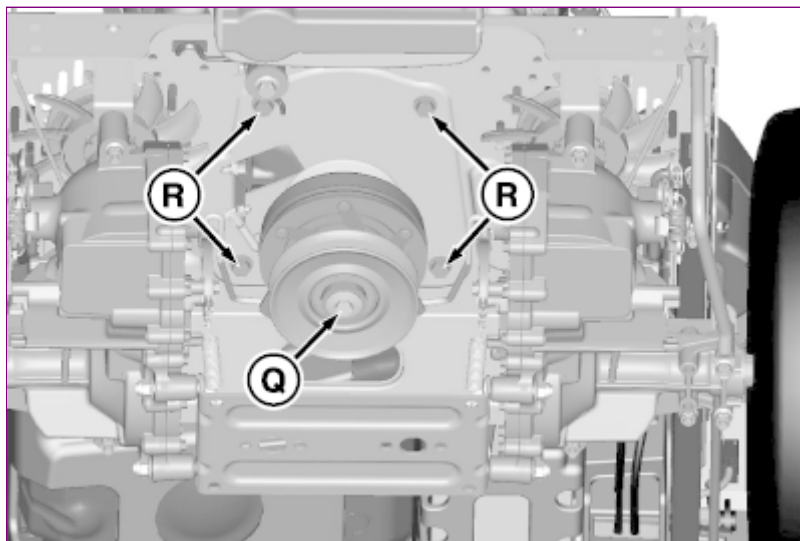
Q - Bolt
R - Bolts

Remove bolt (Q) and washer securing electric clutch and engine sheave assemblies to engine output shaft. Remove electric clutch.

19. Remove the drive sheave and key from the engine crankshaft.
20. Remove four bolts (R) securing engine to frame.
21. Remove engine.

TM140319 - Z335E, Z355E ZTrak Mower (S.N. 010001-) Install Engine

Install Engine



MXT005462-UN: Idler arm and pulley removed for clarity.

LEGEND:

R - Bolts
Q - Bolt

1. Set engine in machine frame.
2. Install 4 engine mounting bolts (R). Tighten bolts to specification.

Item	Measurement	Specification
Engine Mounting Cap Screws	Torque	48 N·m (35 lb-ft)

3. Install the key and drive sheave onto the engine output shaft.
4. Install the electric PTO clutch assembly so that the anti-rotation pin is in the slot. The PTO clutch pin must be able to move freely within the slot.
5. Secure electric PTO clutch with washer and bolt (Q). Tighten bolt to specification.

Item	Measurement	Specification
PTO Clutch Bolt	Torque	68 N·m (50 lb-ft)

6.

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