



Service Advisory

ZERO TURN

W-158

Models Affected: ZT 42 (17AJ2ACG090).
ZT 50 (17AK2ACP090, 17BK2ACP090).
ZT 54 (17AK2ACK090, 17BK2ACK090).
ZT 42 (17AC2ACG597). ZT 50 (17AK2ACP597).

Serial Number Range Affected: Units manufactured between November 1, 2007 (Date Code "...K017...") and November 1, 2008 (Date Code "...K018...")

Date: **September 26, 2008**

Subject: **Hydro-Static Transmissions Drive Belt Premature Wear and/or Roll-over.**

ACTION REQUIRED: This repair is to be considered a **Fix-As-Fail** repair

SYMPTOM(S): Hydrostatic transmission drive belt wears on edge of the tensioning idler pulley and/or may roll over on pulleys impacting drive capability. The engine pulley is higher than the tensioning idler and transmission input pulleys resulting in the belt running on an angle.

CORRECTIVE ACTION:

Overview: Replace the existing 756-0978B engine pulley with the new 756-04376 (Order separately). See Figure 1.

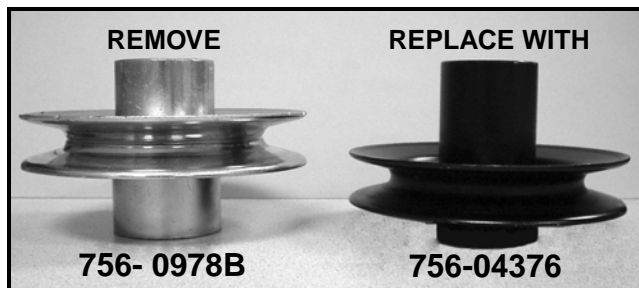


FIGURE 1

1. Place rider on a flat and level surface, turn off the engine, remove ignition key and set the parking brake ON.

2. Allow engine and muffler to cool to room temperature before proceeding.

Removal Instructions:

3. Using the deck lift handle, raise the deck to the position that provides the most horizontal run of the belt between the deck idler pulleys and the PTO pulley on the bottom of the engine.

4. Working from the middle of the tractor, pivot the idler bracket and movable idler pulley rearward away from the backside of the "V" belt just far enough to lift the belt up and over the idler pulley.

5. From beneath the rear of the tractor, slide the belt off of the PTO pulley on the bottom of the engine. Rolling the belt off the PTO pulley.

6. Using the deck lift handle, raise the deck to the position that provides the most horizontal run of the belt between the deck idler pulleys and the PTO pulley on the bottom of the engine.

7. Sitting behind the tractor facing forward, reach beneath the tractor to grasp the belt at the front of the PTO pulley.

Warning!: Use caution to prevent pinching your fingers when rolling the belt off the PTO pulley.

8. Pull the left side of the belt rearward and downward while manually turning the PTO pulley to the right until the belt rides out onto the edge of the lower sheave of the pulley.

NOTE: *If pulling the right side of the belt, turn the pulley to the left.*

9. While still holding the belt downward, continue turning the PTO pulley until the belt is rolled off the pulley.

10. From beneath the rear of the tractor, insert a large flat blade screw driver into the square hole of the drive idler bracket. See Figure 2.

11. Using the screw drive for leverage against the transmission lug, pivot the idler bracket and idler pulley away from the backside of the "V" belt; then slip the belt off the idler pulley. See Figure 2.

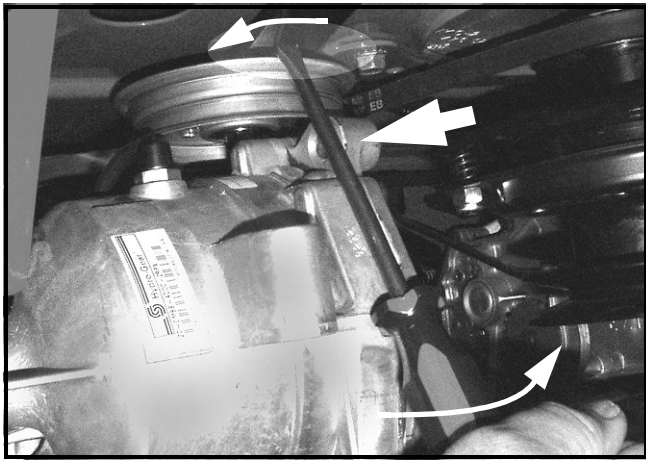


FIGURE 2

12. With the belt loose, lift the belt off, up and over the two transmission drive pulleys. Remove the belt from the engine and idler pulleys.

13. Inspect the belt. Replace if damaged.

NOTE: *This is an opportune time to replace the belt even if it is still in usable condition.*

14. From the underside of the deck, disconnect the electric clutch wire harness connector from the rider's main harness. See Figure 3.

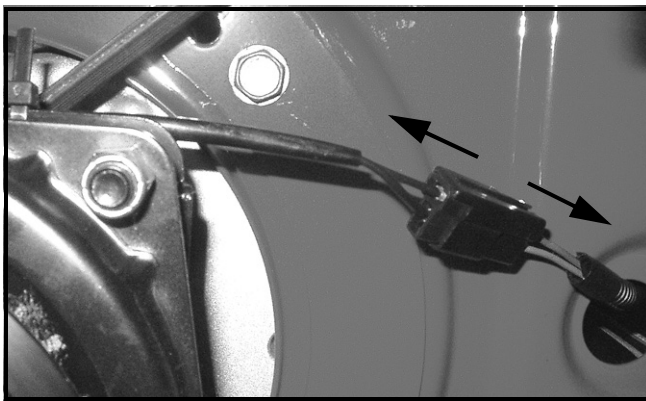


FIGURE 3

15. Using a 5/8" socket and ratchet, remove the 7/16"-20 bolt, lock washer and flat washer (if so equipped) securing the electric clutch to the engine crankshaft.

16. Carefully remove the electric clutch, flat washer (if so equipped), and engine pulley. Discard the 756-0978B pulley.

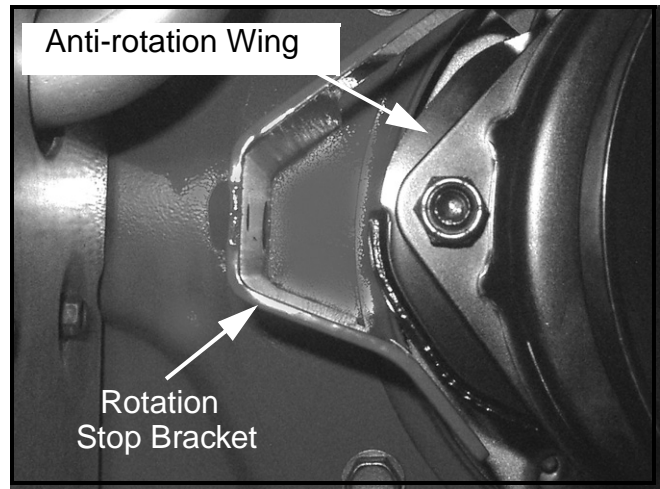


FIGURE 4

NOTE: *Observe how the electric clutch anti-rotation wing sets into the rotation stop bracket. See Figure 4.*

NOTE: *The location of the flat washer(s) used in the mounting of the engine pulley and electric clutch.*

Installation Instructions:

17. Apply never-seize compound to the crankshaft.

18. Install a new 756-04376 engine pulley onto the crankshaft ensuring that the radius end of the pulley hub is up towards the engine.

19. Re-install the flat washer (if so equipped) and then the electric clutch onto the crankshaft. Ensure the clutch's anti-rotation wing is in the rotation stop bracket as shown in Figure 4.

20. Re-install the flat washer (if so equipped) then the 7/16"-20 clutch retaining bolt and lock washer.
Torque the bolt to 50-60 Ft.-Lbs.

21. Connect the electric clutch pigtail harness to the main harness.

22. Install the hydrostatic transmission belt. Refer to Steps 11, 12 and Figure 2.

23. Inspect the deck drive belt. Replace if damaged.

NOTE: *This is an opportune time to replace the deck drive belt even if it is still in usable condition.*

This completes the advisory and installation of the new 756-04376 pulley.

Warranty: Normal warranty terms apply. Indicate Service Advisory **W-158** and **756-0978B** as the original failed part on the claim. Repair time allowance is 0.7 Hrs.

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