



# Service Kit 753-05089

Date: March 21, 2005

Subject: Service replacement for the 754-04078A belt.

Models Affected: 2005 Model Year, 800 Series Self-Propelled Walk Behind Mowers

**Read through and understand these instructions completely before proceeding with repair.**

**PURPOSE:** Early production units used the 754-04078A belt. Some mid-season production units used the 754-04093 belt and a flat washer between the two engine pulley halves. Later production units used the 754-04093 belt and new engine pulley halves that removed the need for the flat washer. This service kit addresses the various production changes. The 754-04093 belt replaces the early production 754-04078A belt. The original engine pulleys, 756-04156 and 756-04157, have been replaced by the 756-04156B and 756-04157B pulley halves. Depending on the existing belt and presence or absence of a flat washer between the engine pulley halves will determine how the components of this service kit are used.

**NOTE: Save this Instruction Sheet. Refer to it when ordering replacement parts.**

## Service Kit Contents (See Figure 1)

ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	754-04093	1	BELT, "V" TYPE
2	756-04156B	1	PULLEY, ENGINE, LOWER HALF
3	756-04157B	1	PULLEY, ENGINE, UPPER HALF
4	769-01757A	1	THIS INSTRUCTION SHEET

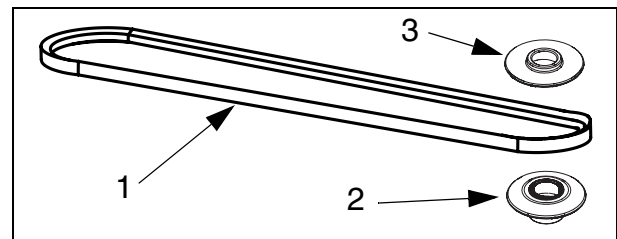


FIGURE 1

### Installation Instructions:

1. Turn off the engine and allow the engine and muffler to cool.
2. Disconnect the spark plug wire from the spark plug and ground it against the engine block.
3. Drain the fuel tank. Option: Remove the fuel cap, place a piece of plastic film over the fuel tank filler neck and replace the fuel cap to prevent gasoline leakage.
4. Tip the mower on its side (air cleaner side of engine up).
5. Remove the self-tapping screw that secures the deck baffle to the deck. See Figure 2.

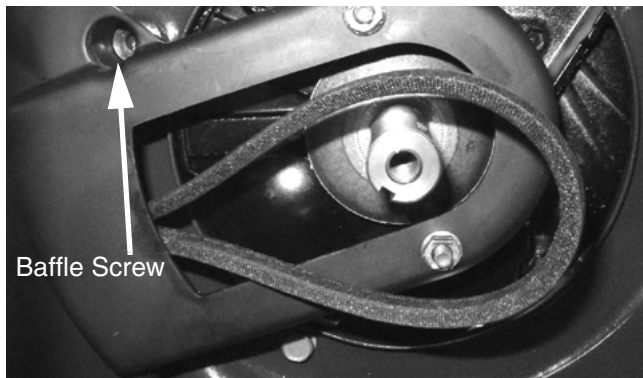


FIGURE 2

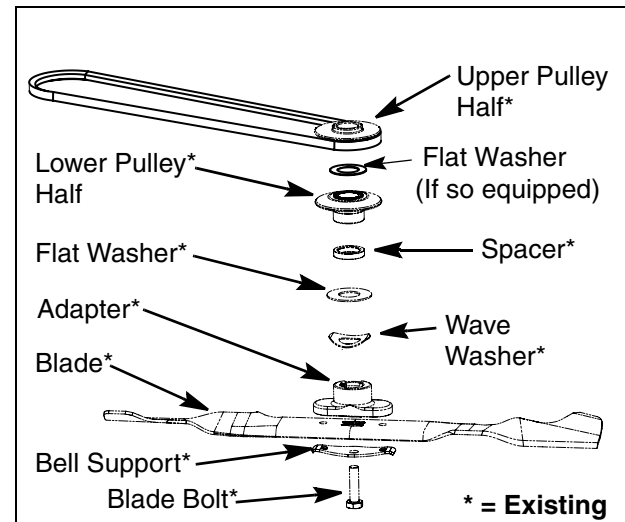


FIGURE 3

6. Refer to Figure 3. Remove the blade bolt, bell support, blade, adapter, wave washer, flat washer, spacer and lower pulley half.

7. Refer to Figure 4. Working from the rear of the mower carefully remove the existing belt from the transmission pulley. When removing the belt through the baffle channel a spring wire belt retainer, used on early production models, may dislodge from the

transmission bracket belt guides. Retain the spring wire belt retainer for re-installation later. **Make note of the part number that is printed on the existing belt. Discard the used belt.**

**NOTE:** If the number on the existing belt is unreadable refer to Figure 5 to determine which belt is the existing belt.

**NOTE:** Later production units have a belt retainer pin welded to the transmission bracket on the belt guide lip designated by the "P", in lieu of the spring wire retainer.

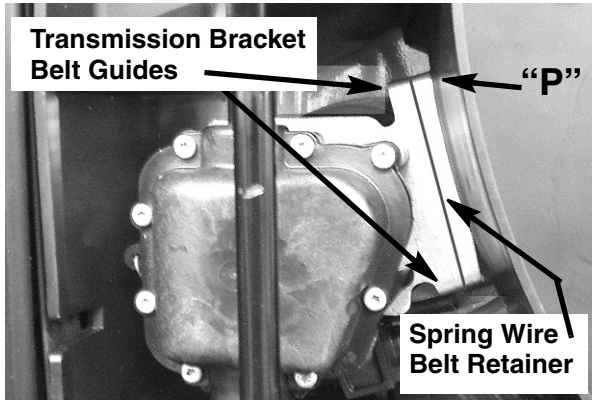


FIGURE 4

8A. If the existing belt on the unit is a **754-04078A** discard both existing engine pulley halves.

8B. If the existing belt on the unit is a **754-04093** and there **IS** a flat washer between the engine pulley halves, see Figure 3, discard the flat washer and both existing engine pulley halves.

8C. If the existing belt on the unit is a **754-04093** and there is **NO** flat washer between the engine pulley halves, see Figure 3, retain the pulley halves for later re-installation. These are the same pulley halves contained in this kit.

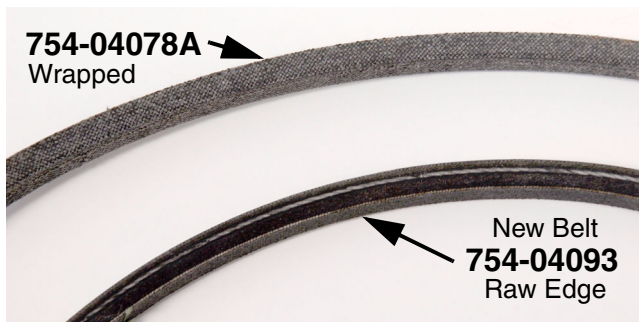


FIGURE 5

9. To facilitate drive belt installation place a small rubber band loosely around the new belt, Item 1, as shown in Figure 6.

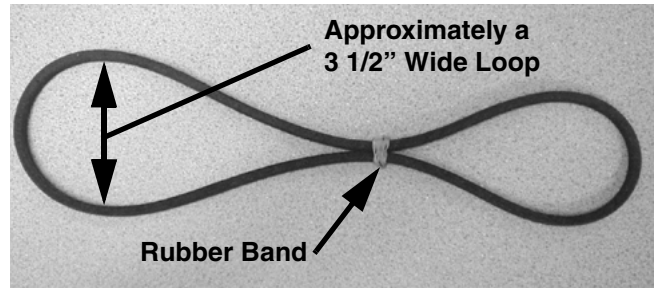


FIGURE 6

10. Feed the belt, larger loop end first, through the opening in the baffle as shown in Figure 7.

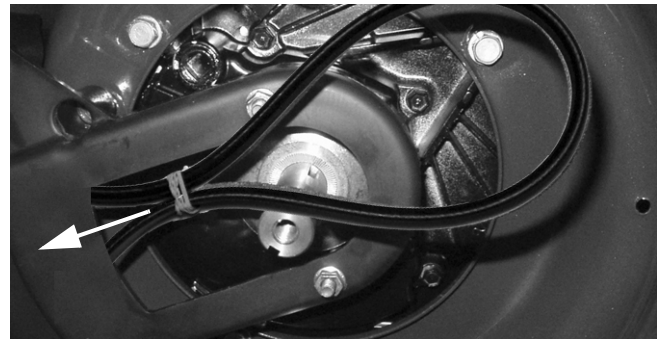


FIGURE 7

**NOTE:** Do not remove the rubber band. The rubber band will break away when the engine is started and the self-propel is engaged.

11. Working from the rear, guide the belt around the transmission pulley making sure the belt is inside the two belt guides and under the pin retainer (if so equipped).

**NOTE:** Installing the belt around the transmission pulley may be made easier by carefully pivoting the baffle away from the upper engine pulley half and reaching down through the baffle channel as shown in Figure 8.



FIGURE 8

12. See Figure 9. Ensure the belt is correctly positioned around the transmission pulley and routed to the inside of the transmission bracket belt guides and under the pin retainer (if so equipped).

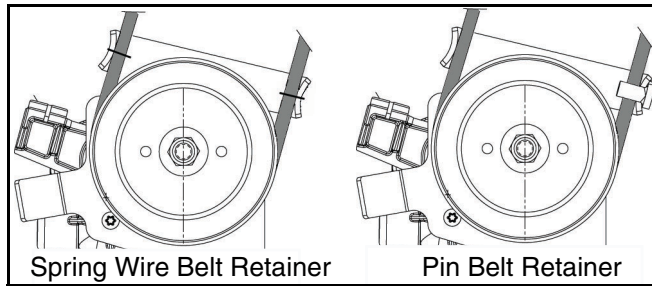


FIGURE 9

13. Replace the spring wire belt retainer, if so equipped, onto the transmission bracket as shown in Figure 4.

14A. If the existing belt removed in Step 7 was a **754-04093** and there was **NO** flat washer between the two engine pulley halves, proceed to Step 15.

14B. If the existing belt removed in Step 7 was a **754-04078A** or the existing belt was a **754-04093** and there was a flat washer between the upper and lower pulley halves, proceed to Step 16.

15. Re-Install the upper engine pulley half (has no key in the bore) on the crankshaft with the cone side facing the blade attach end of the crankshaft. Place the new belt, Item 1, on the crankshaft. Install the lower pulley half (with the square key in the bore) with the cone side facing the upper pulley half thereby trapping the belt between the two cone surfaces. See Figure 3. Make sure that the serrated surfaces of the two pulley halves are interlocked and the belt is not keeping the pulley halves from interlocking. Retain the 2 engine pulley halves that came in the kit as spares.

16. Install the new upper engine pulley half (has no key in the bore), Item 3, on the crankshaft with the cone side facing the blade attach end of the crankshaft. Place the new belt, Item 1, on the crankshaft. Install the new lower pulley half (with the square key in the bore), Item 2, with the cone side facing the upper pulley half thereby trapping the belt between the two cone surfaces. See Figure 3. Make sure that the serrated surfaces of the two pulley halves are interlocked and the belt is not keeping the pulley halves from interlocking.

17. Re-install the remaining hardware onto the crankshaft in the order shown in Figure 3. Ensure that the belt is not pinched between the inside serrated surfaces of the two pulley halves.

18. Before tightening the blade bolt make sure that both raised pads on the blade adapter and the bell support are set into the small mating holes in the blade and the blade is set onto the blade adapter star evenly.

19. Tighten the blade bolt to a torque of 450 in.lbs minimum, 600 in.-lbs. maximum.

20. Re-position the baffle up against the deck making sure that the engine pulley belt guides are on the outside of the belt. Re-install the 1/4"-20 self-tapping screw removed in Step 5.

21. Replace the spark plug wire onto the spark plug. If applicable, remove the plastic film, installed in Step 3, from under fuel cap. Start the engine. Engage the self-propel to break rubber band. Test self-propel for engagement, speed control and disengagement.