



# Service Kit

## 753-04232

CODE:

DATE: August 21, 2002

SUBJECT: Starter Pulley Replacement

MODELS All Models that use the  
AFFECTED: 791-181597 Starter Pulley

**PURPOSE:** Use this kit when replacing starter pulley P/N 791-181597.

**NOTE:** These materials are prepared for use by trained technicians who are experienced in the service and repair of equipment of the kind described in this publication, and are not intended for use by untrained or inexperienced individuals. Such individuals should seek the assistance of an authorized service technician or dealer.

Typical Installation Time: 30 Minutes

### Service Kit Contents

REF. NO.	PART NUMBER	QTY	DESCRIPTION
1	753-1199	1	Pulley, Starter
2	791-182354	2	Retainer, Pulley
3	791-182469	2	Screw, Retainer

**NOTE:** These instructions were written using the model 700r Trimmer . Some instructions and/or photos may not be applicable to your unit. Use this instruction as a general guide if you are servicing a different model.

#### Pre-Service Preparation:

1. Allow engine and muffler to cool before proceeding.
2. Remove the spark plug wire from the spark plug.

#### Removal Instructions:

1. Set the choke lever to align with the notch in the air filter cover.
2. Remove the four T-20 Torx fasteners that hold the air filter cover to the engine. See Figure 1. Remove the air filter cover.
3. Pull the throttle cable housing out of the small side of the "keyhole" in the carburetor mount/reed plate, and move it to the large side of the "keyhole", relieving tension on the cable. See Figure 2.
4. Use the slack in the throttle cable to unhook the Z-fitting from the carburetor.
5. Loosen the clamp bolt that fastens the starter housing to the boom using a 5/16" wrench on the bolt, and a 3/8" wrench on the nut. See Figure 3.
6. Remove the anti-rotation screw that locates the clamp and starter housing on the boom.
7. Remove the engine assembly from the boom.
8. Remove the four thread forming and one self-tapping screws that hold the starter housing to the engine using a T-20 Torx driver. See Figure 4.
9. Lift the starter housing away from the engine far enough to gain access to the ground wire that connects the magneto to the ON-OFF switch. See Figure 5.

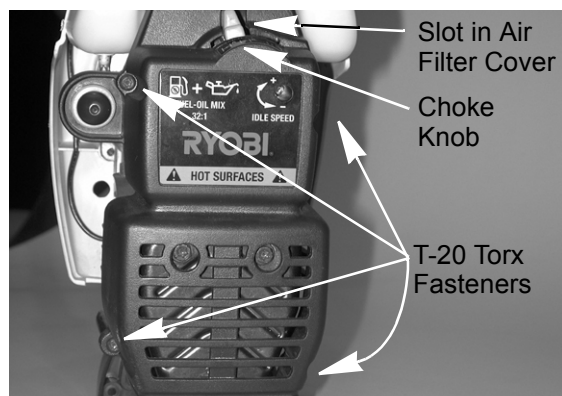


FIGURE 1

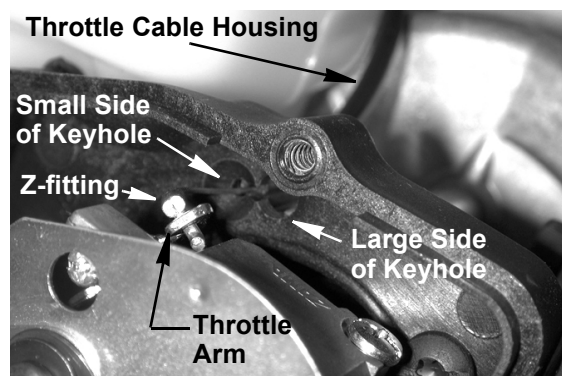
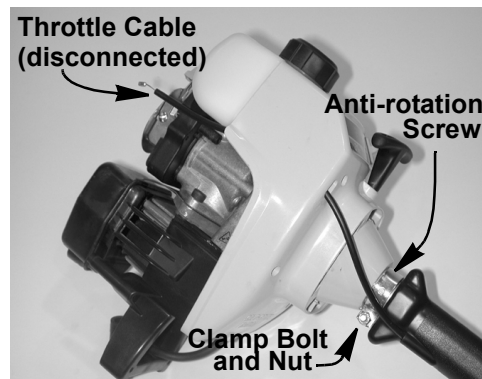


FIGURE 2



10. Unplug the spade terminal that connects the ground wire to the magneto.
  11. Lift the starter housing completely off of the engine.
  12. Using a T-20 Torx driver, loosen the rope guide retainer screw far enough to allow the rope to pass between the pulley and the rope guide retainer. See Figure 6.
  13. Pull a loop of starter rope up next to the pulley.
  14. Unwind the starter rope several turns to relieve tension from the recoil spring.
  15. Remove the screw that secures the rope guide retainer, and lift the rope guide out of the starter housing.
  16. Remove the starter pulley retainer using a pair of diagonal cutting pliers.
- NOTE: Use caution not to damage the center column of the starter housing.
- NOTE: The original style starter pulley is held in place by a push-on retainer. The retainer is not reusable after removal.
17. Carefully lift the starter pulley out of the starter housing, using caution not to pull the recoil spring out of the recess that contains it.
  18. Remove the starter rope from the starter pulley.

**Installation Instructions: Refer to Figure 7.**

18. Transfer the starter rope from the original starter pulley to the new starter pulley if it is in good condition. If the rope shows signs of wear or damage, replace it.
  19. Install the new Starter Pulley, Item 1, into the starter housing rotating it gently until the recoil spring engages the notch on the spring side of the starter pulley. Leave a 6" tail between the starter housing and the "T" handle on the starter rope.
  20. Re-Install the rope guide retainer, but do not fully tighten the screw that holds the retainer in place.
  21. Pull up a loop of rope, and wind the pulley clockwise (CW) far enough to put tension on the rope.
- NOTE: The "T" handle should draw-up against the rope guide but there should not be excessive tension on the rope.
22. Tighten the screw that holds the rope guide retainer using a T-20 Torx driver.
- Install the two new Pulley Retainers, Item 2, in the starter housing as shown in Figure 7, and secure them with the new phillips head Retainer Screws, Item 3.
23. Re-Install the starter housing on the engine by reversing the removal procedure.
  24. Re-install the engine on the boom by reversing the procedure used to separate the boom from the engine.

**Post-Installation Inspection:**

1. Ensure that the starter pulley engages the starter dogs on the flywheel and the engine can be pulled through its compression cycle without the starter pulley disengaging from the starter dogs.
2. Start and test run the unit. Vary throttle to full speed and down to idle several times. Turn unit off.
3. Repeat Steps 1 and 2 several times.

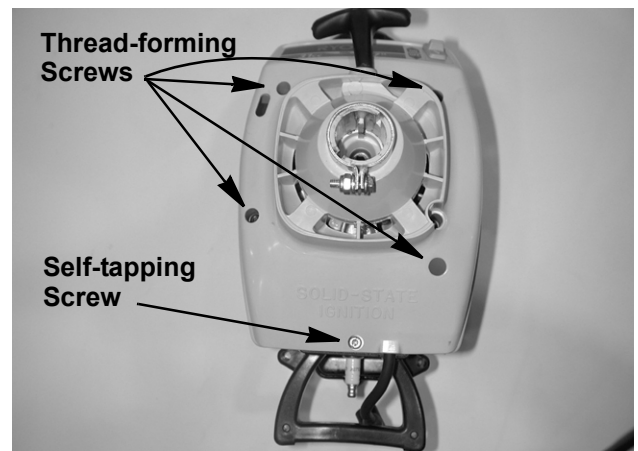


FIGURE 4

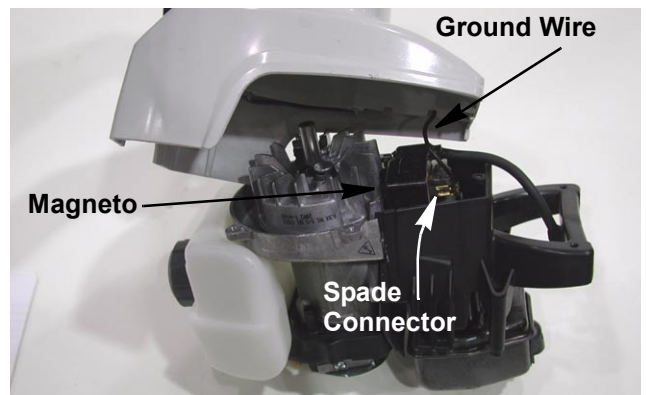


FIGURE 5

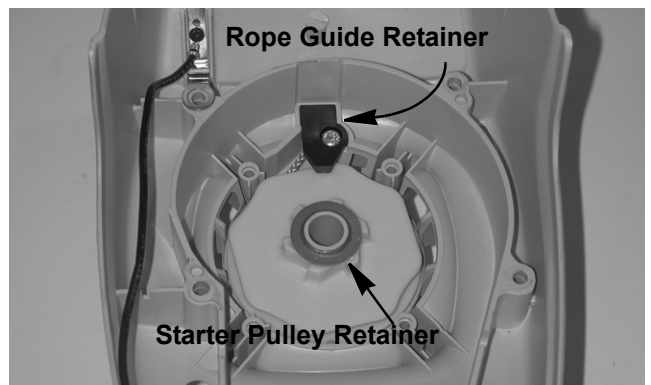


FIGURE 6

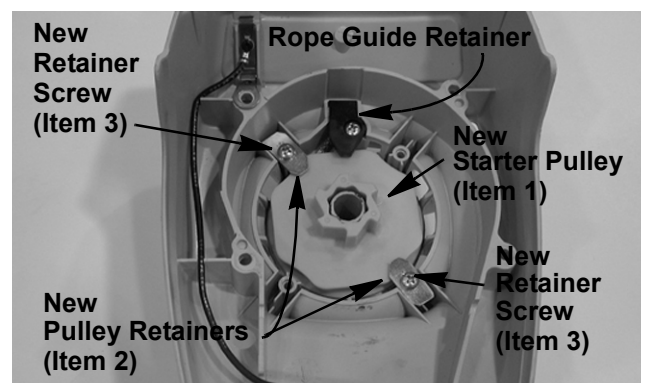


FIGURE 7