

Removal and Disassembly

1. Remove the three screws and lock washers securing recoil to magneto housing.

Fig. 5-1



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2. Pull the recoil rope about two feet. Using a hook, guide the recoil rope into the notch of the recoil reel. Grasp recoil reel and slowly allow the recoil reel to unwind until all spring tension is released.

Fig. 5-2



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3. While exerting downward pressure on the drive plate, remove the E-ring and notched washer securing recoil components.

Fig. 5-3



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4. Lift drive plate free of hooked portion of return spring; then remove drive plate from recoil shaft.
5. Remove spring cover and spring from recoil shaft; then remove recoil pawls.

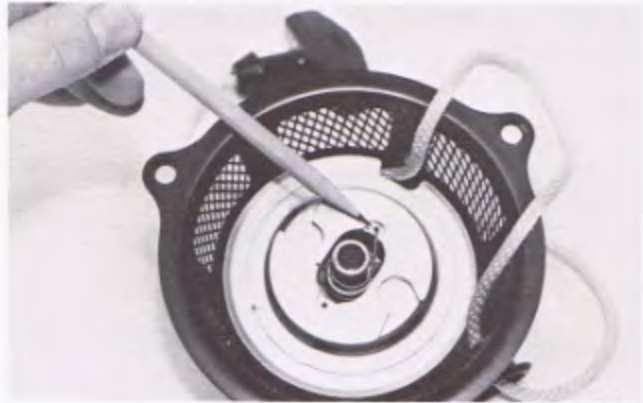
Fig. 5-4



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6. Disconnect return spring from recoil reel; then remove spring.

Fig. 5-5



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7. Remove two keyed washers from recoil shaft.
8. Carefully lift the recoil reel w/main spring off the recoil shaft.
9. If the recoil main spring must be replaced, begin removing spring one turn at a time by alternately using thumbs to guide spring off reel.
10. If the recoil rope must be replaced, remove the recoil handle from the end of the rope; then guide rope through the recoil reel.

Fig. 5-6



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Cleaning and Inspection

NOTE: Whenever a part is worn excessively, cracked, defective, or damaged in any way, replacement is necessary.

1. Clean all recoil components with cleaning solvent. Dry components with compressed air.

Fig. 5-7



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2. Inspect all springs, shims, washers, pawls, and drive plate for excessive wear or damage.
3. Inspect the recoil reel and housing for cracks or damage. Check the center hub for cracks and excessive wear.

Fig. 5-8



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4. Check the recoil rope for breaks or fraying.
5. Inspect the main spring for cracks, crystallization, and abnormal bends.

Fig. 5-9



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6. Inspect the starter handle and end piece for damage, cracks, or deterioration.

Assembly and Installation

1. Hook the end of the recoil spring around the mounting lug of the recoil reel.
2. Continue to insert the recoil spring winding in a clockwise direction. Insert windings one at a time until the complete recoil spring is installed.

NOTE: Recoil spring must seat evenly on the recoil housing to ensure correct installation.

3. If a recoil rope is to be installed, secure a knot in one end of the rope and insert the rope through the hole in the recoil reel; then wrap rope counterclockwise around reel, leaving 50 cm (20 in.) of rope free of roller.
4. Align the hook in the end of the recoil spring with the notch in the recoil housing.

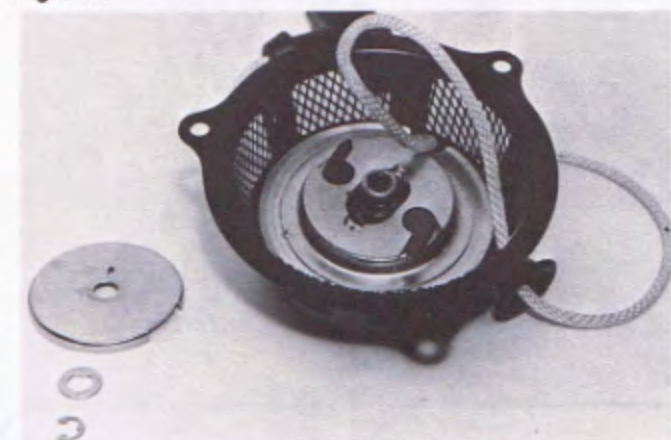
NOTE: At this time a light oil may be used to lubricate both the spring and reel hub.

5. Carefully slide the recoil reel over the hub and hook spring on the hub.

NOTE: To ensure correct spring installation, rotate reel clockwise until slight spring tension is felt.

6. Slide two notched washers onto the recoil shaft.
7. Connect return spring to the hole in the recoil reel.
8. Install compression spring and cover.
9. Install starter pawls.

Fig. 5-10



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10. Use a hooked wire to guide the return spring when installing the drive plate. Rotate the plate until spring is in position.
11. Press drive plate onto shaft; then secure with a notched washer and E-ring.
12. Place recoil in position on fan housing; then install screws.
13. Pull the recoil rope until pawls engage with recoil pulley. This will center the recoil on the housing.
14. Tighten the three screws securing the recoil.
15. Check recoil for correct operation.