



# SERVICE BULLETIN NO. 73

SEC. VIII, DIV. A  
SERVICE BULLETIN  
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## SUBJECT: Recoil Starter Installation Instructions

There are two basic types of Recoil Starters. These are: (a) The type that uses a special pulley as the driven member; and (b) the type that uses a special flywheel nut as the driven member. Figure 1 illustrates the special pulley type as these are the more prevalent. Both types of recoils require the same installation as far as the mounting of the unit to the blower housing. It is possible that your recoil starter does not look exactly like the one illustrated, however the installation procedure is the same.

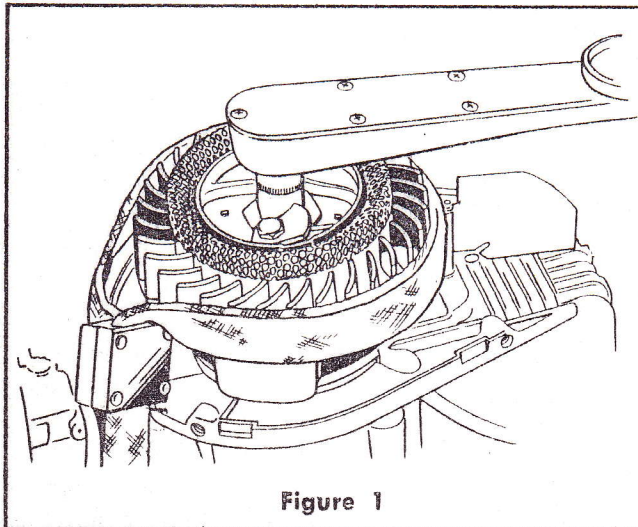


Figure 1

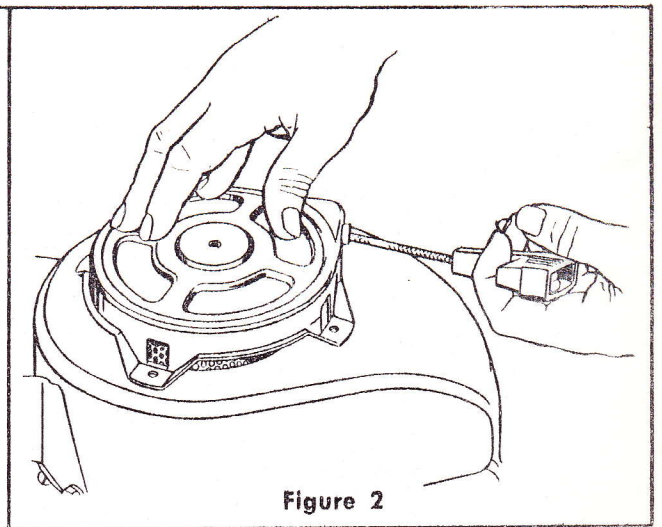


Figure 2

1. Remove blower housing from engine and remove starter pulley. Replace pulley with new recoil starter cup assembly as illustrated in Fig. 1. (Proper torque on the flywheel nut is important.

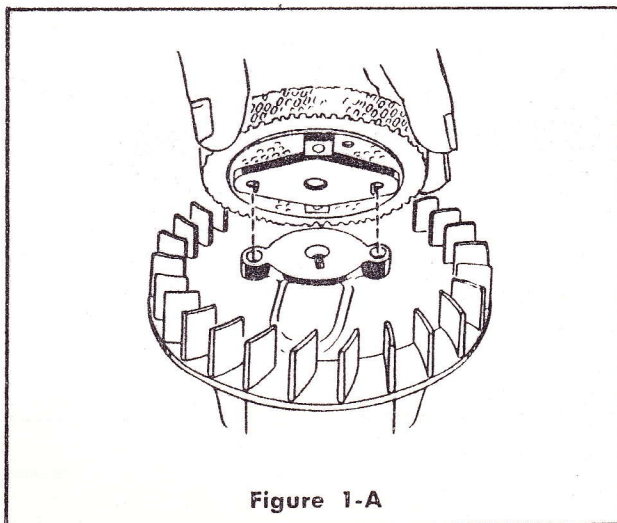


Figure 1-A

The torque should be: 200 - 250 in. lbs. on 7/16" cast iron flywheels; 300 - 350 in. lbs. on 7/16" aluminum flywheels; 350 - 400 in. lbs. on all 1/2" crankshaft threads). On some starter cups there is an alignment "pin" or "tang" that must either be inserted in holes in the flywheel or between the fins (see Fig. 1-A). If there are no holes and the "tang" do not fit between the flywheel fins, mark the location of the pin or tangs on the flywheel and drill the flywheel to accommodate them.

2. After replacing housing on engine, place starter on engine (Fig. 2 shows engaging dogs on starter pulley so starter is in position). (Pull rope out about two feet, place over pawls and allow rope to retract. This will engage pawl drive to pawls, center the starter and mark the location for the mounting studs.)

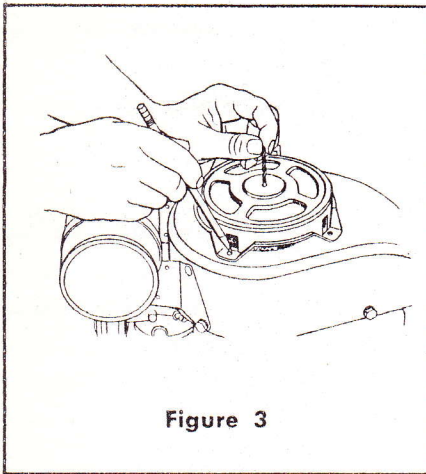


Figure 3

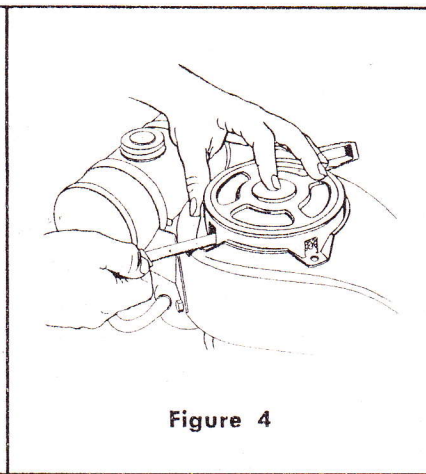


Figure 4

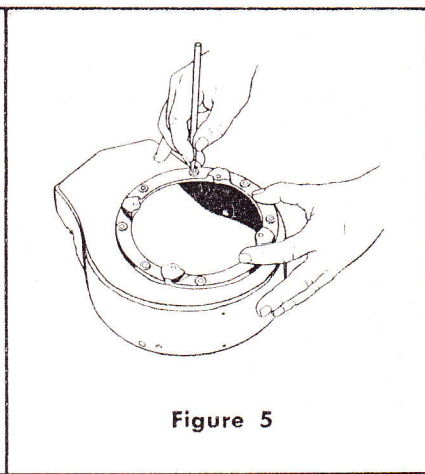


Figure 5

3. There are three ways these mounting holes can be aligned for marking:

A. Align the starter by use of a pin or drill through the centering hole in the starter and to the "center" of the crankshaft. (If starter has centering hole, Fig. 3).

B. By measuring equal distance from the starter screen to the recoil housing at each of the four mounting holes in the recoil starter (Fig. 4).

C. If starter is being used on one of the large diameter blower housings (D-700, 900, 1200, V-1200) the mounting ring can serve as the guide and the holes marked from it, by aligning ring to the cut out of the blower hous-

ing (Fig. 5). Refer to Sec. III, Div. H for starter usage as mounting ring is included in only one kit.

4. After the holes are marked, remove the blower housing and drill or punch four 7/32" holes at the locations of the marks (Fig. 6).

5. Install the recoil on the housing using the four studs and nuts supplied with the recoil starter (Fig. 7) and tighten firmly.

6. Replace blower housing on engine (Fig. 8) and check again to be sure alignment is proper by pulling the recoil several times to be sure there is no binding. (If binding occurs loosen nuts holding starter and again center starter on studs and re-tighten.)

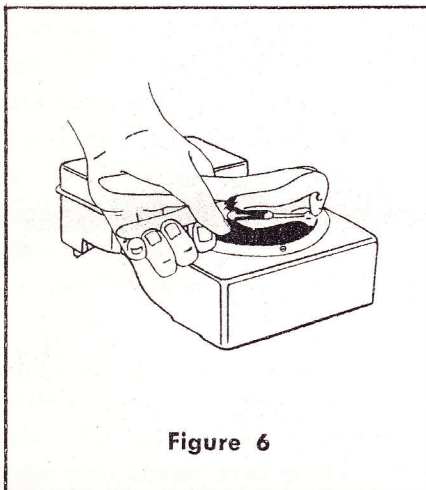


Figure 6

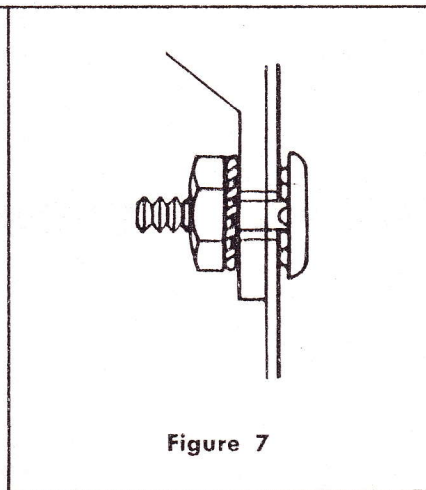


Figure 7

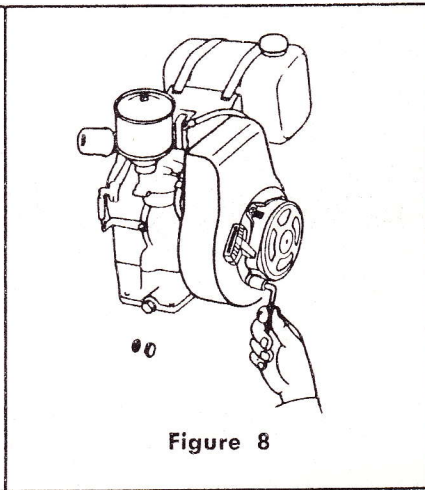


Figure 8