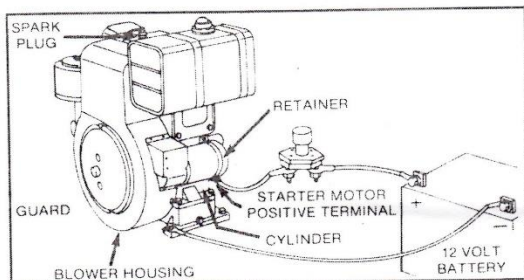


## STARTER MOTOR KIT INSTALLATION INSTRUCTIONS

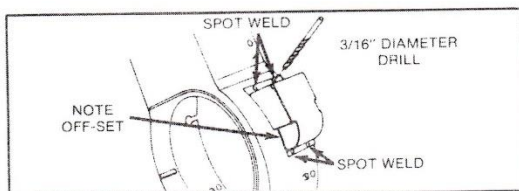
1. To prevent accidental starting, remove wire from spark plug and disconnect wire from battery at negative (-) terminal, Fig. 1.



**Fig. 1 - Typical Engine/Starter Motor Assembly**

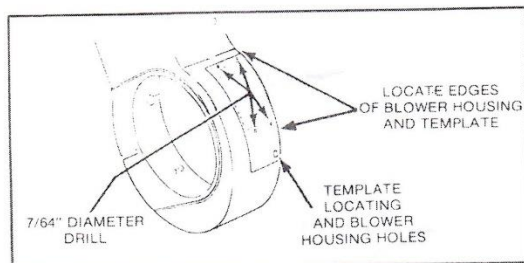
2. Disconnect positive wire from starter motor terminal, Fig. 1.
3. Remove guard from blower housing and retainer from starter motor. If guard on blower housing is identical to the one supplied in this kit (no off-set), go to step number 6.

NOTE: If original guard is spot welded to blower housing, drill spot welds using a 3/16" diameter drill as shown in Fig. 2. Drill ONLY deep enough to loosen spot welds. Discard guard.



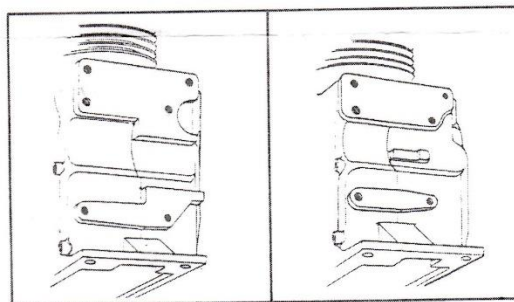
**Fig. 2 - Remove Guard**

4. Remove starter motor from the cylinder.
5. If original guard was spot welded to blower housing, new guard mounting holes must be drilled. Use template on reverse side and locate on blower housing as shown in Fig. 3. Drill four (4) holes using a 7/64" diameter drill.
6. To obtain starter motor clearance, cut along dashed lines and remove blower housing material indicated on template.



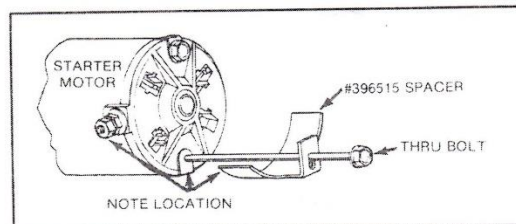
**Fig. 3 - Guard Mounting Holes**

7. a. If engine has the original style cylinder shown in Fig. 4A, add part number 396515 spacer to starter motor as shown in Fig. 5. Torque through bolt holding spacer to starter motor, 35 to 40 inch pounds.
- b. If engine has the new style cylinder shown in Fig. 4B, discard part number 396515 spacer.



**Fig. 4A - Original Style**

**Fig. 4B - New Style**



**Fig. 5 - Spacer Installation**

8. Assemble starter motor to cylinder. Torque screws 125 to 150 inch pounds.
9. Fasten retainer to cylinder.
10. Install new guard with four (4) screws provided. Torque screws 10 to 15 inch pounds.
11. Attach positive wire to starter motor terminal. Tighten nut.
12. Securely attach wire to negative battery terminal.
13. Connect wire to spark plug terminal.

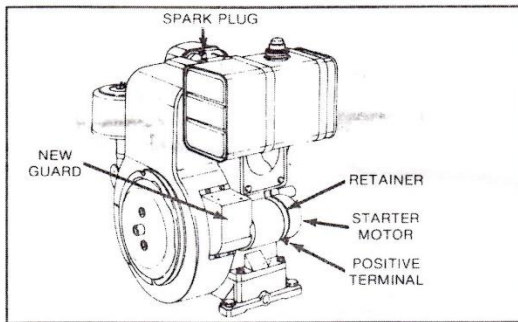


Fig. 6 - Engine Assembly

TEMPLATE

