



Service Bulletin

96

April 1968

SOLID STATE IGNITION SYSTEM

HH 100-115095B Lauson Engine

So that solid state ignition system tune-up and adjustment information may be available to all Wheel Horse dealers, we are mailing with this bulletin, information from the Tecumseh Products Company Mechanics Manual.

This bulletin 8-C-3 Titled "Solid State System Ignition Service" covers the information necessary to properly diagnose and correct problems that may be encountered with this system.

For further information and guidance, we suggest you contact your Lauson (Tecumseh) outlet.

Enclosure
Tecumseh Bulletin 8-C-3

Atwood S. Kidder

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Customer Relations Manager

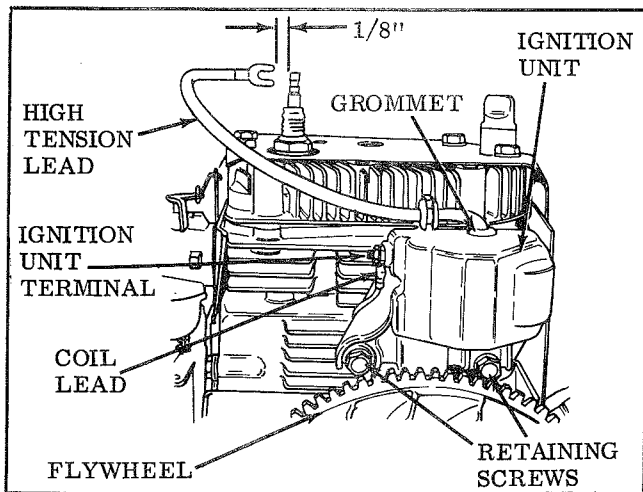


Figure 8-C-3

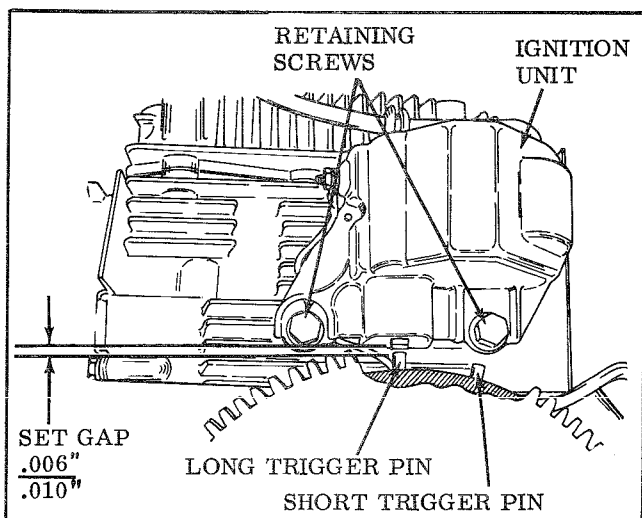


Figure 8-C-4

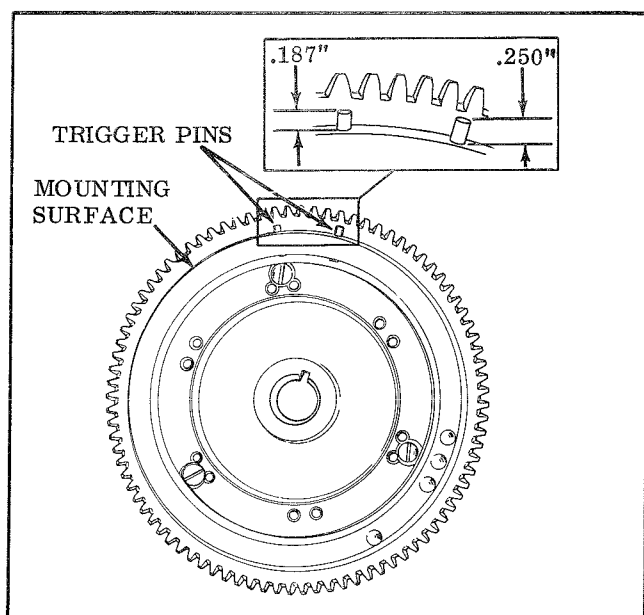


Figure 8-C-5

8-C-3 SOLID STATE SYSTEM IGNITION SERVICE.

a. General. The following checks and explanation are all that this system has. If nothing else is apparent, the ignition unit must be replaced. The parts of the system are:

1. Ignition coil.
2. Flywheel.
3. Ignition unit.
4. High tension lead.
5. Spark plug.

b. Spark Plug Check. Test ignition by using a test plug or hold the high tension lead terminal 1/8-in. from the spark plug. Crank the engine over rapidly. If a good blue spark jumps the gap, the ignition system is functional.

If no spark is present make the following checks: c through f.

c. Check high tension lead for a ground out or disconnect in the ignition unit.

d. Check coil lead and connection to ignition unit terminal.

e. Air Gap Checks. Adjust the system so that a .006/.010" clearance exists between the ignition unit and the long trigger pin in the flywheel.

To adjust, loosen the retaining screw and move the unit to find proper gap.

If the gap cannot be adjusted, check the trigger pins' length. The short trigger pin should extend .187" from the mounting surface.

The long trigger should extend .250" from the mounting surface.

Remove the flywheel and drive the pin(s) in or out the required amount.

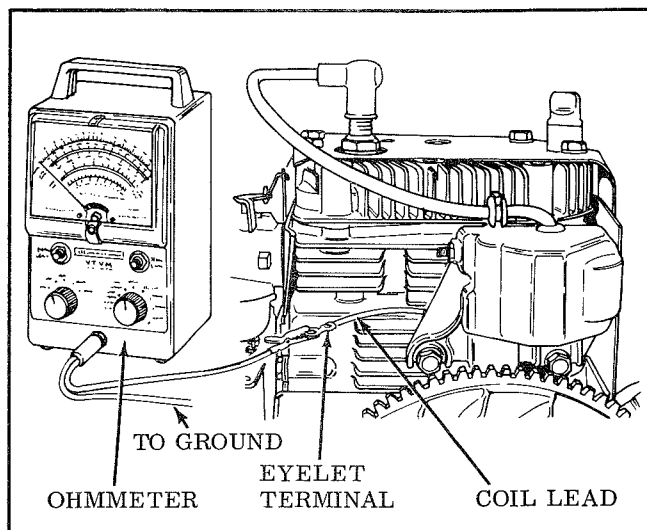


Figure 8-C-6

- f. Coil Lead. Remove the coil lead from the ignition unit terminal - Attach leads from a standard ohmmeter to the lead eyelet terminal and to ground to check series resistance of the ignition generator coil.

- (1) If resistance is below 400 ohms, replace the stator assembly which includes the coils.

NOTE: The ignition generator coil cannot be replaced separately.

- (2) If coil resistance is above 400 ohms, replace the ignition unit (Fig. 8-C-3).

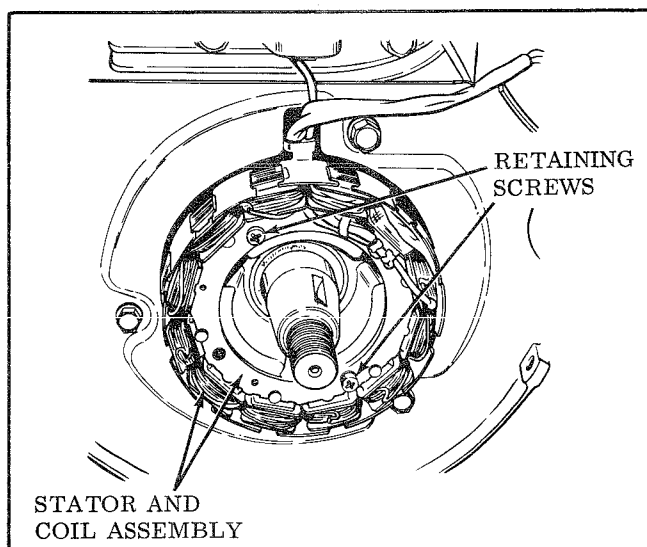


Figure 8-C-7