

## INSTALLATION INSTRUCTIONS

### Battery Ignition Conversion Kit 237750-S

Some 8 through 16 Hp engines and some Universal Service Engines were equipped with 15 amp alternator-breakerless ignition systems. These engines can be converted to a breaker type ignition system with this kit.

This kit contains—

Qty.	Description	Qty.	Description
1	Ignition Coil and Condenser Assembly (Includes: Ignition Coil, Condenser, Breaker Lead, and High Tension Lead)	1	Breaker Cover Gasket
1	Breaker Assembly	1	Shrink Tubing
1	Push Rod	2	Plain Washer, 17/64"
1	Breaker Cover	2	Sems Screw, 1/4-20x3/4"
		4	Sems Screw, 10-24x 3/8"

To convert to breaker-type ignition—

1. Disconnect the high tension lead from the spark plug and the lead from the terminal at the bottom of the breakerless ignition coil. Remove the breakerless ignition coil, including high tension lead, from blower housing.
2. Remove the blower housing and cut the lead at the bottom of the breakerless trigger module about 1" from the bearing plate—remove trigger module.

The protruding end of this lead must be electrically isolated as voltage is emitted with engine running. Isolate by bending end of lead and taping end. As a final precaution, slip the tubing from kit over taped end and shrink tubing with heat.

Reinstall blower housing.

3. Drain oil from engine and remove oil pan. Remove the breaker push rod hole plug by driving it inward until it falls free inside the block.

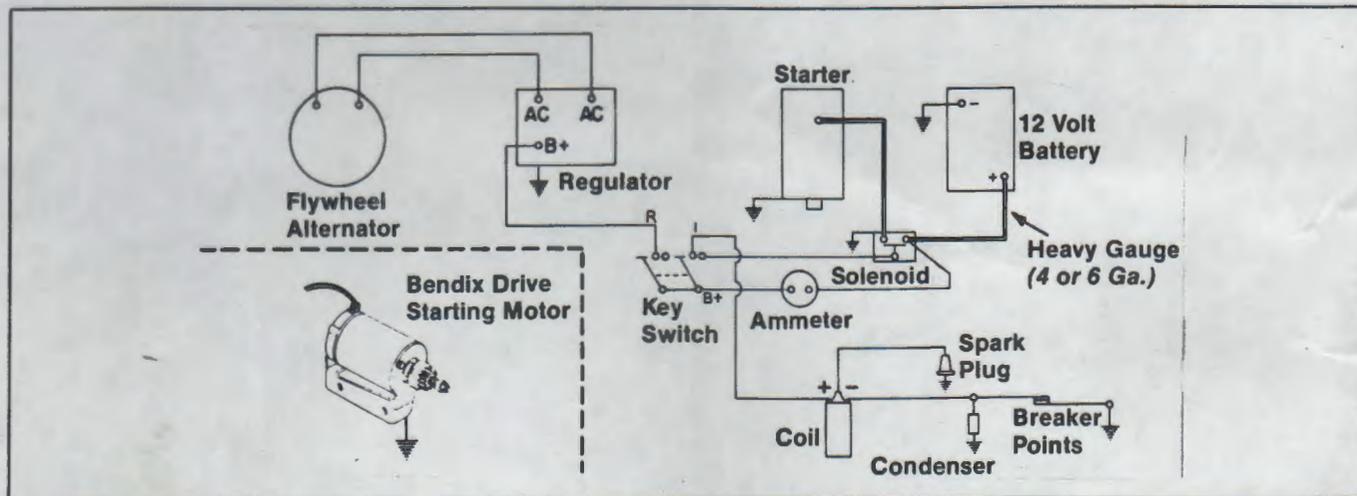
**CAUTION:** Make sure this plug is removed from the engine block before reinstalling the oil pan and gasket.

Reinstall oil pan and gasket. Refill crankcase with oil—refer to Owner's Manual for oil recommendations.

4. Insert breaker push rod in hole and install breaker assembly with (2) 10-24x3/8" sems screws. Set point gap to 0.020" (full open). Do not install breaker cover at this time.
5. Install coil and condenser assembly to blower housing using (2) 1/4-20x3/4" sems screws and (2) 17/64" plain washers.
6. Connect the high tension lead to the spark plug and the long lead from the coil (-) to the breaker points. Connect the coil (+) to the ignition switch. Refer to wiring diagram below for connection details.

**CAUTION:** UNGROUNDED type ignition switch is required with battery ignition systems. Install ungrounded switch (Kohler part No. 48 099 01) before attempting to start engine.

7. Start engine and adjust ignition timing using a timing light. Install breaker point cover and gasket with (2) 10-24x3/8" sems screws to complete conversion.



Typical 15 Amp Alternator Charging - Breaker Ignition System