



**MODEL: LTH 130 (954140005E) YTH 150 (954140007E)**

**SUBJECT:** In certain conditions running with clutch and lights on, the battery recharge capability is limited.

The only models affected are listed above, be sure the numbers on the machine in question match these number, otherwise damage to the electrical system could result.

**Field Fix**

Install a 10 amp regulator to engine electrical system. See below for part number, tools required and installation procedures.

**Labor**

\$15.00

**Parts List**

QTY. 1 Kit # **531 03 05-08** at no charge.

**Tools Required**

- wire cutters
- small/thin flathead screwdriver
- 8 MM wrench
- 10 MM wrench

**Installation Procedures**

- 1.) Disconnect negative battery cable from battery.
- 2.) Unplug the 4-pin connector on LH side of engine. Clip and discard wire tie holding harness at the top-left-rear of engine(\*\*Engine lifting hook).
- 3.) The plastic blower housing must be removed to install regulator. There are (7) screws to be removed: (4) 8 MM and (3) 10 MM. Once the housing is removed, the plug for the regulator on the left-rear must then be removed from the housing. Discard plug.
- 4.) Reinstall the blower housing. NOTE: Be sure the spark plug wire is secure in the slot provided.
- 5.) Install the regulator with the (2) screws/washers provided. Terminal must be facing outward and pointing downward. See Fig. 1.
- 6.) Clip and discard wire tie holding the white, yellow, and red wires.
- 7.) Slide screwdriver into the slot of connector on the engine harness that has a black wire and pull wire out of connector. See Fig. 2

- 8.) Remove black connector from green wire on engine harness by using the same method in step 7(\*\*\*Do not lose black connector. It will be used later in this procedure).
- 9.) Bend the small metal tabs on the terminals of the black and green wires that were removed from the connector. Bend approx. 30 degrees. See Fig. 3
- 10.) Insert the green wire that the black connector was removed from in the 3-pin connector. See Fig. 1
- 11.) Plug the 3-in connector onto the regulator. **NOTE: From left-to-right, colors MUST be green, violet, and brown.**
- 12.) Remove lifting hook from top-left-rear of engine with 10 MM wrench or socket. Secure the eyelet of the brown wire(\*\*\*Ground) from regulator under the lifting hook mounting bolt.
- 13.) Insert violet wire where black wire was removed from the 4-pin connector.
- 14.) Plug the 4-pin connector together. The wires should be in the orientation shown below:

**Engine Side**

Violet connects to  
 White connects to  
 Red connects to  
 Yellow connects to

**Tractor Side**

Red  
 Black  
 Blue  
 Orange

- 15.) Install black connector, from step 8, to the black wire. This black wire is not used so it needs to be protected on the end.
- 16.) Secure the harness to the engine with the wire tie provided.
- 17.) Connect negative battery cable to battery and start engine. Note a positive reading on the dash mounted ammeter.....if equipped.

