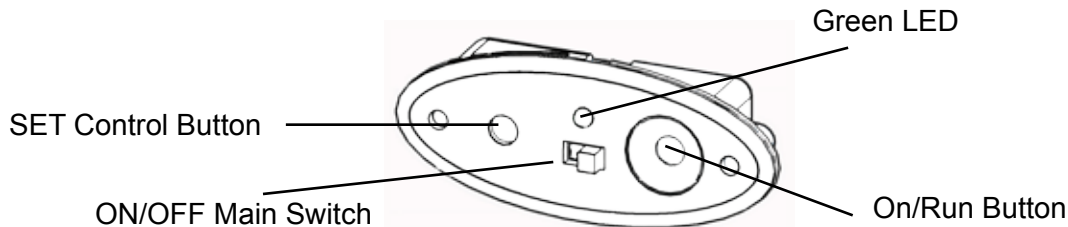


Model Products

ELECTRONIC ONBOARD GLOW DRIVER

Installation

1. Cut a 1-13/16" x 3/4" rectangular hole through the side of the model if the driver is to be mounted on the exterior of the model. Make sure the panel will not be exposed to moisture or exhaust residue. If you choose to mount the unit inside the model, you can use extended mounting screws through the rear cover.
2. Push the panel into the hole, and slide the telescoping back cover onto the rear of the panel. Make sure all wires route through the slots so they are loose. Attach the rear cover with two screws through the front panel.
3. Attach the three pin lead to the throttle channel on the receiver. Attach the throttle servo to the three pins on the rear, making sure black or brown goes to -, red goes to + and white or orange go to S (signal). See www.sullivanproducts.com for manual-only installation instructions, and for updates or tips.
4. Attach the single black wire to a screw on the engine. It is the glow plug ground. Attach the twist-lock Head Lock connector(s) to the glow plug(s).
Note: the wire on the glow plug connector has High Temp PTFE Insulation. If you choose to use a different connector you can remove the stock connector and attach a different one. Be careful to use high temperature wire in all replacements.
5. Plug a charged battery into the battery (two pin) connector. The battery pack can be 1.2V to 12V, and should be able to supply enough current to power a glow plug.



Operation

1. Turn your radio on and receiver on, and turn the Driver on by pushing the slide switch to ON. The Driver will Blink once.
2. When the LED is on continuously, the plug is lit. If the LED flashes about once per second, the glow plug is not receiving enough current. For manual operation (engine starting) push the ON button once to light the glow plug. It will stay lit until the button is pushed again.
3. For automatic operation, set your throttle stick to the position that you want the plug to come on. Push the white button under the SET hole, and the LED will begin flashing about twice a second for several seconds. Increase throttle on the transmitter while the LED is flashing. This orients the unit for high vs low throttle direction. When the flashing stops, the setpoint and direction is stored in memory. You can redo this as often as desired. Check the setpoint by moving the throttle up and down through the setpoint. The LED will indicate that the plug is on or off.

You can change the setpoint at any time by repeating the above step. If you do not want the unit to come on automatically, move the throttle stick to the lowest position (off) and set the ON position there. You can also turn the Driver off with the main switch; the throttle servo will still work.

Notes

- With a twin plug installation, the plugs operate in parallel. The Driver will flash "bad plug" only if both plugs or both connectors are bad. To check individual plugs, unhook the connectors one at a time and turn the board on briefly.
- Be careful not to over discharge your battery. **This is particularly important with LiPo batteries, as damage or fire can result.** We recommend checking the voltage before each flight to ensure you have enough energy to run the plug for the flight.
- Do not use the receiver battery to run the glow plug. The glow driver is a high current device and will significantly reduce the flight time for a given pack.

