

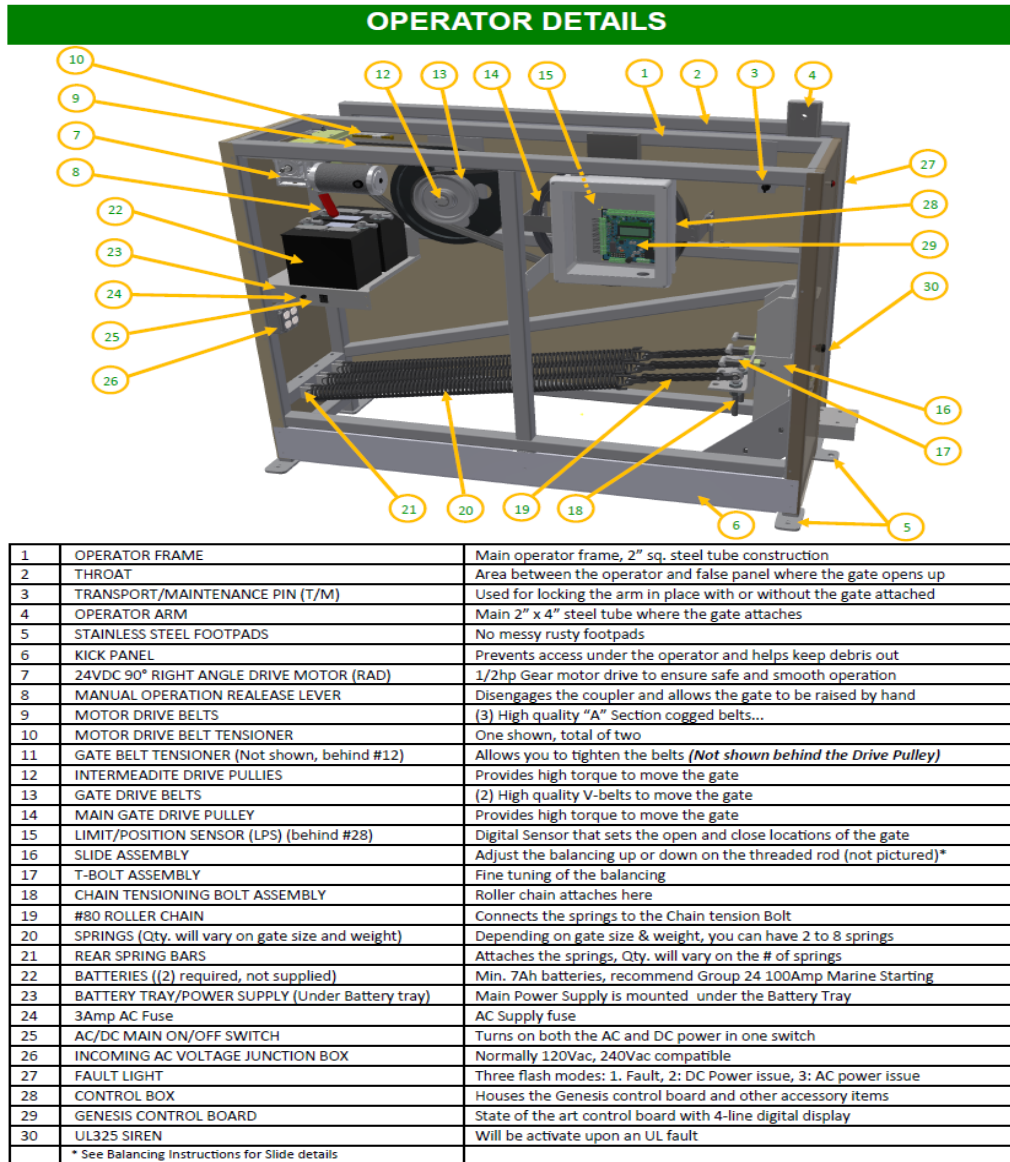
VPG2490 Interlock Relay Kit – Field Retrofit Instructions

Parts Included in Kit:

- (2x) Zip Ties
- (1x) Crimp on Male Push Tab – Blue
- (1x) Relay Assy w/Harness
- (1x) Tek Self Tapping Screw

Recommended Tools:

- Cordless Drill with a 5/16" socket
- Small Flat Head Screwdriver
- Wire Cutting Tool
- Wire Stripping Tool
- Wire Crimping Tool



Before beginning, please note that the operator should be properly anchored with the gate mounted and operational before beginning installation (*See Installation and Operation Manual for instructions*). All power to the operator must be shut off as well. This can be accomplished by flipping both rocker switches on the battery tray to the “off” position.

Note: A wiring diagram has been included with the retrofit kit to be used with these instructions

1. Begin by mounting the included relay wiring harness assembly to the inside of the control box with the included Tek self-tapping screw. See below for recommended mounting location.

It is strongly recommended that a cloth or covering of some kind be used to cover the circuit board to protect it from metal shavings or debris during the relay installation process.

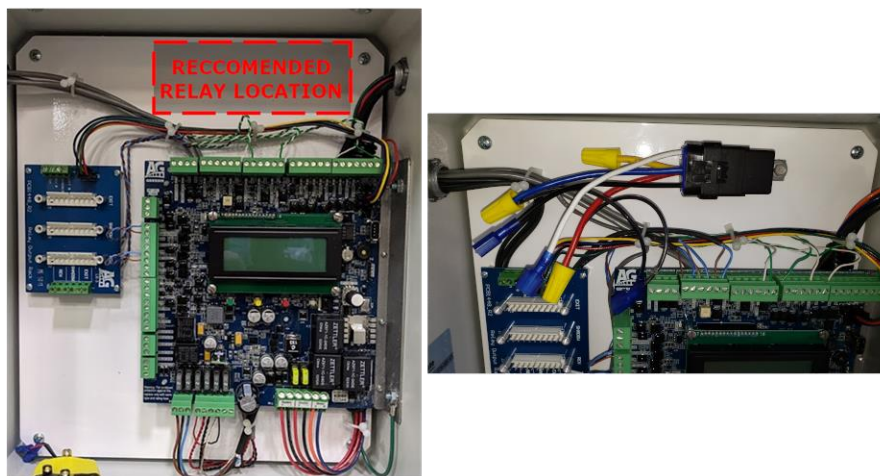


Figure 1: Suggested relay mounting location.

2. Remove the **RED** wire from the terminal labeled “LOCK” on the circuit board. It will be the last terminal on the upper terminal block located on the left-hand side of the Genesis board.

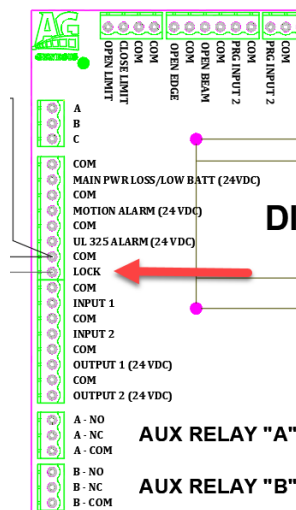


Figure 2: Image showing location of **RED** “lock” wire to solenoid latch.

3. Crimp the included **MALE** push-on tab connector onto the end of the **RED** wire from step #2. Lightly tug on the newly crimped connection to ensure proper installation. Connect the newly crimped connector to the **FEMALE** push-on tab that is attached to the **RED** wire coming from the Relay installed in Step #1.

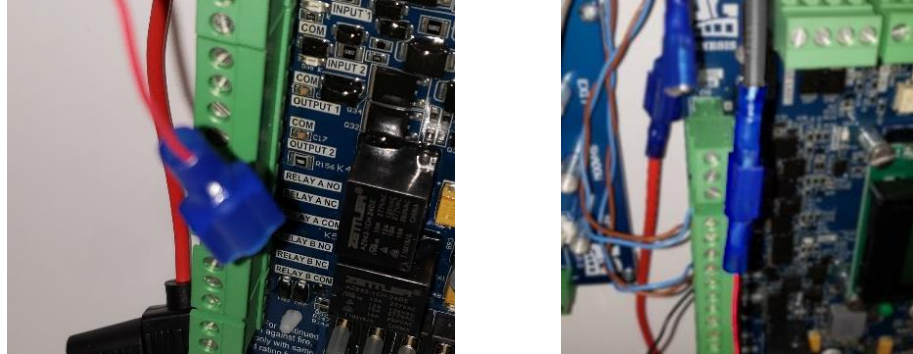


Figure 3: RED wire from solenoid with male push-on tab connector attached (left). Connection between RED solenoid wire and pigtail connection to relay (right).

4. Using the **WHITE** wire from the relay, connect the bare end to the “LOCK” terminal. **Note:** The **WHITE** wire will be spliced to a **BLACK** wire for extra length for this connection.

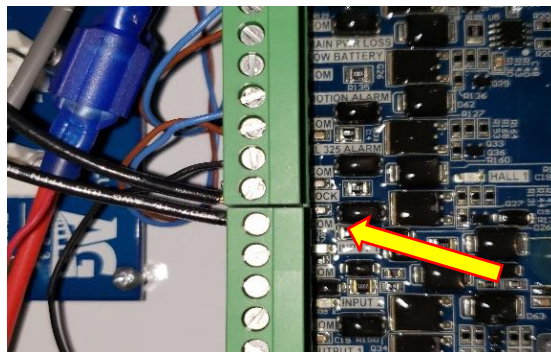


Figure 4: Image showing the BLACK wire from relay connected to “LOCK” terminal.

5. Using the **BLACK** wire coming from the relay, connect it to any common ground terminal labelled “COM” on the Genesis board. (All common ground locations will be marked as “COM” on the board if the wiring diagram is unavailable.)

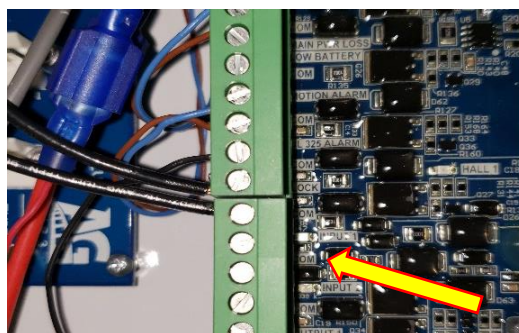


Figure 5: Image showing BLACK wire from relay connected to “COM” terminal.

- Loosen the screw terminal marked “**BATTERY +**”. This terminal is the first terminal in the block at the lower RH corner of the circuit board (There will be a **RED** wire already inserted in this terminal). Insert the bare end of the In-Line Fuse assembly into this terminal with the existing **RED** wire (The In-Line Fuse assembly will be spliced to the **BLUE** wire of the relay).

Note: It may be necessary to remove the existing **RED** wire in the terminal block and twist the two wires together for insertion. Once both wires are inserted, tighten the terminal set screw, and lightly tug on the wires to ensure proper installation into the terminal.

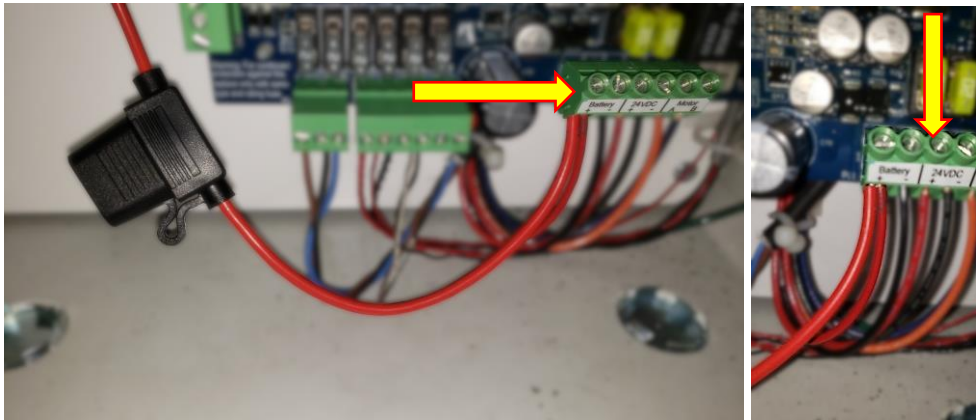


Figure 6: Images showing inline fuse connected to “Battery +” terminal.

- (Optional)** The wiring for the retrofit is now complete, you may use the included zip-ties to organize the wiring within the cabinet.
- Before returning the gate to service, it is recommended that the gate be cycled several times to ensure proper functionality of the solenoid latch. To do this, the system may be re-energized by switching both AC and DC power switches to the ON position. The system may be fully cycled by pressing the GREEN “Open” button once below the display on the Genesis board. The gate will open and then automatically close to complete the cycle. If the gate “CLOSE TIMER” is not turned on, use the YELLOW button to close the gate.**



Figure 8: Image showing the location of the GREEN “Open”, YELLOW “Close”, RED Stop, Reset and Jog Select buttons on the Genesis board.

- Once the Interlock mechanism has been verified that it is working properly, securely close door to the control box. Close and lock the operator doors to complete the installation process.