

# REPLACEMENT OF FIXED CONTROL ONLY- CABLE, G2, RAIL

PART# 987

This kit can be used to replace either control shown in Figure 1.

## PREPARING THE GATE AND VEHICLE

1 - **ACTIVATE** the control.

- A) **Push** the hidden "POWER ON" switch (*Figure 5-6*). The amber "POWER ON" LED will illuminate.
- B) **Push** the hidden "LIFTGATE ACTIVATED" switch (*Figure 5-6*) twice within one (1) second. The red "LIFTGATE ACTIVATED" LED will illuminate. With both lights on, the liftgate can be raised or lowered. If not used for 90 seconds, the control will automatically shut off.

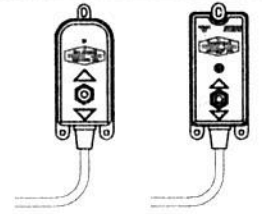
2 - **LOWER** the liftgate to the ground using the toggle switch.

3 - **DISCONNECT** the ground cable from the battery, if supplied.

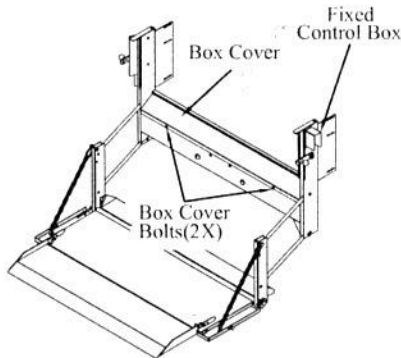
4 - **DISCONNECT** the 4ga power cable from the battery or manually **TRIP** the circuit breaker:

5 - **REMOVE** the box cover fasteners (*Figure 2*).

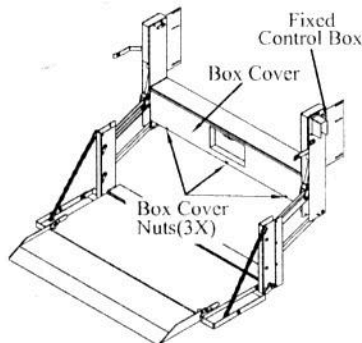
6 - **REMOVE** the mainframe box cover.



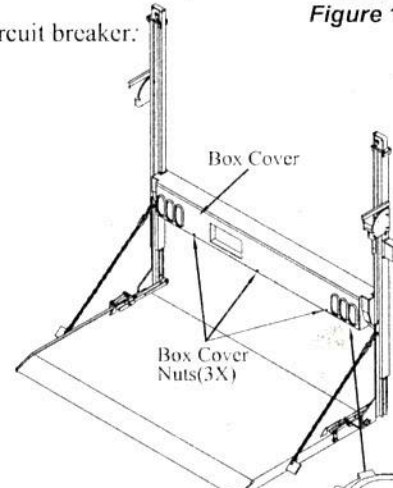
Control 1 Control 2  
**Figure 1: Fixed Control**



**Original Series**



**G<sup>2</sup> dual drive™**



**Rail Series**

**Figure 2: Remove box cover and fasteners.**

**NOTE:** Sketch or photograph how the wiring is routed as this is how you will need to route the new wiring.

7 - **LOOSEN** the strain relief located on the bottom of the mainframe - Rail only (*Figure 3*).

8 - **REMOVE** the old control and supply wiring.

9 - **REPLACE** the grommet in the upright hole - Cable and G2 only.

10 - **VERIFY** that a circuit breaker has been installed with the liftgate. If so, skip steps 11-12. If not call TommyGate.

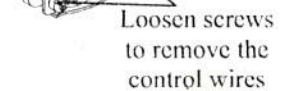
11 - **INSTALL** the circuit breaker in an easily accessible area as close as possible to the battery away from moving parts.

12 - Manually **TRIP** the circuit breaker.

13 - **VERIFY** that either a ground cable is connecting the powerunit to the negative battery post or that there is a ground strap connecting the negative battery post to the frame rail and a ground strap connecting the same frame rail to the power unit. If so, skip steps 14-15. If not call TommyGate.

14 - **INSTALL** a ground strap connecting the negative post on the battery to the frame rail of the vehicle. **DO NOT** connect the ground cable to the battery until step 22.

15 - **INSTALL** a ground strap connecting the powerunit mounting bolt to the same frame rail of the vehicle as step 14.



**Figure 3: Strain-relief**

## INSTALLING THE CONTROL

16 - **SECURE** the control to the fixed control box using the three supplied #12 x 1" pan head screws (*Figure 4*).

**!!WARNING!! AVOID DAMAGE TO THE WIRES BY SECURING THE HARNESS CLEAR OF ALL MOVING PARTS.**

17 - **ROUTE** the wires.

- A) **Cable/G2:** From the control through the grommet in the hole in the upright back, down the inside of the upright back and through the 1.25" hole entering the mainframe and along the bottom of the mainframe to the powerunit.
- B) **Rail:** From the control through the strain relief in the bottom of the mainframe to the powerunit.

18 - **TIGHTEN** the strain relief - Rail only (*Figure 3*).

19 - **CONNECT** the wires to the powerunit in accordance with the Tommy Gate Company wiring diagram (*Figure 5-6*).

20 - **CHECK** to make sure all connections are clean and tight.

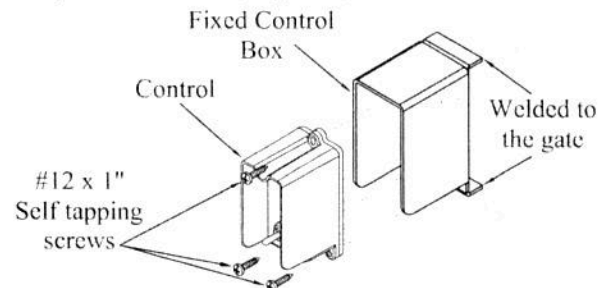
21 - **VERIFY** that the cylinder movement and arm movement will not come in contact with the wiring.

22 - **RECONNECT** the ground cable and **RESET** the circuit breaker.

23 - **TEST** the control operation.

24 - **REINSTALL** the box cover.

25 - **REINSTALL** and tighten the box cover fasteners.



**Figure 4: Secure the Control to the Fixed Control Box**

**!!! PLEASE READ AND FOLLOW ALL DIRECTIONS BEFORE PROCEEDING !!!**

**NOTE !!! IF GATES ARE NOT WIRED IN ACCORDANCE WITH THIS DIAGRAM YOUR WARRANTY WILL BE VOID.**

**WELDING NOTE !!! DISCONNECT ALL BATTERY CABLES. ALWAYS DISCONNECT THE GROUND CABLE FIRST. ATTACH THE WELDING GROUND TO THE TRUCK RATHER THAN THE LIFTGATE.**

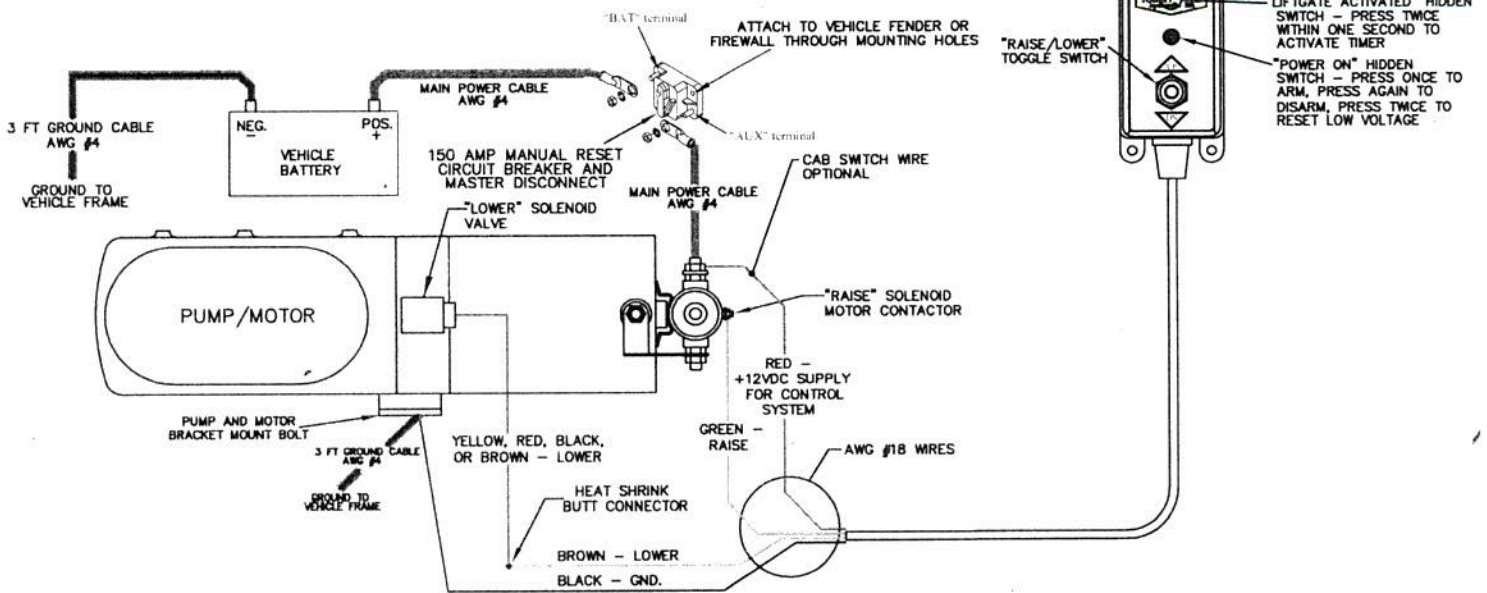


Figure 5: Wiring diagram with ground strap connecting the negative battery post to the frame and a ground strap connecting the frame to the powerunit.

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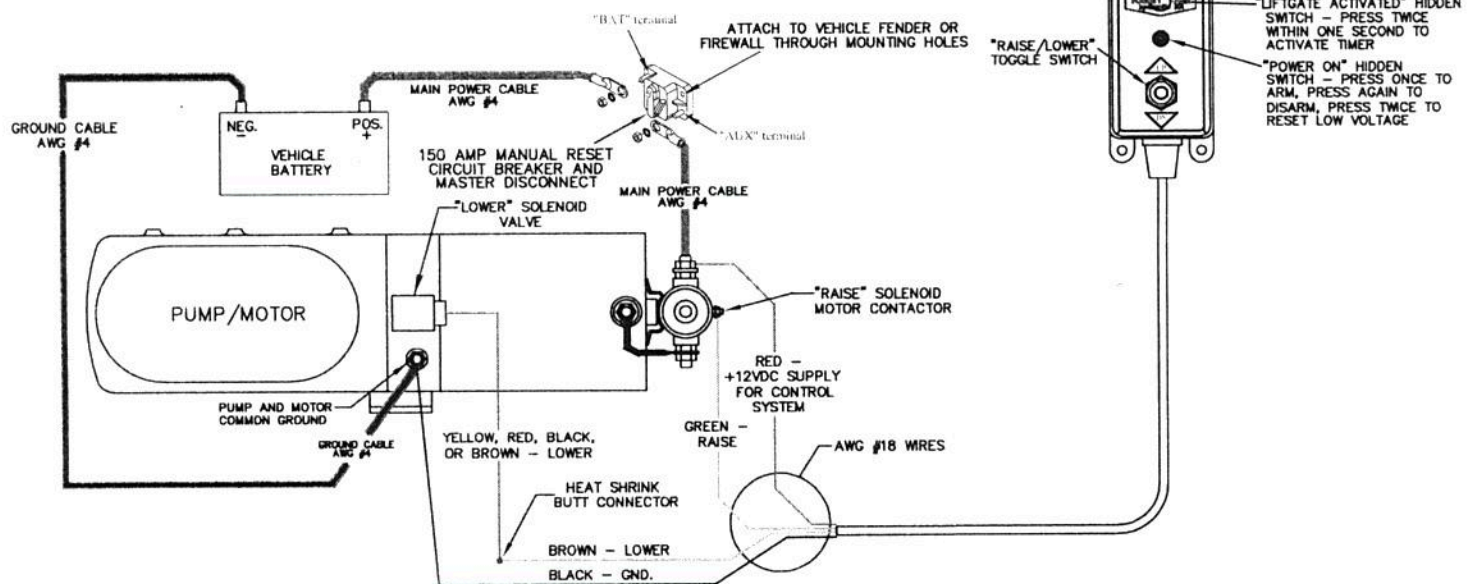


Figure 6: Wiring diagram with ground cable connecting the negative battery post to the powerunit.

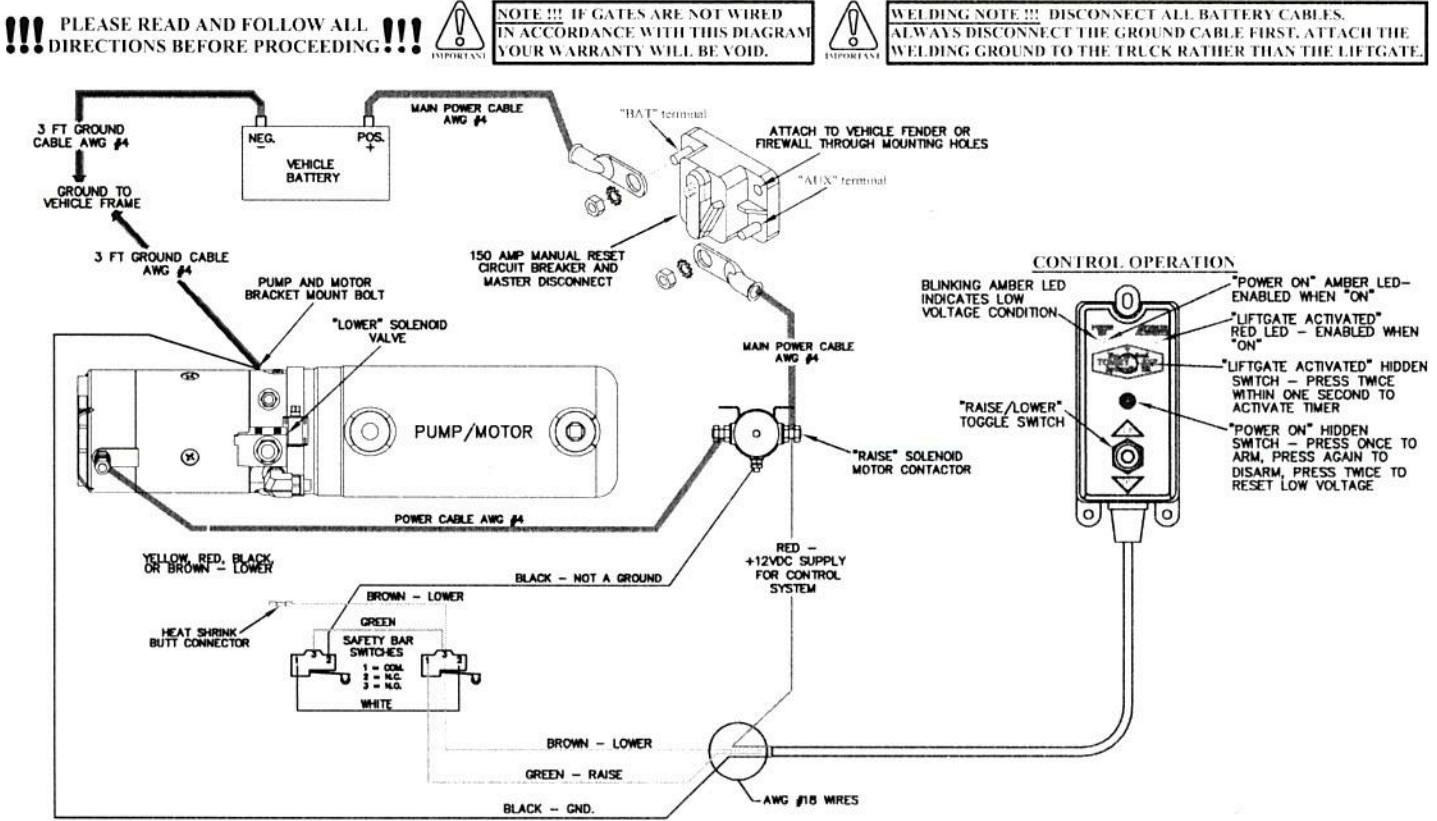


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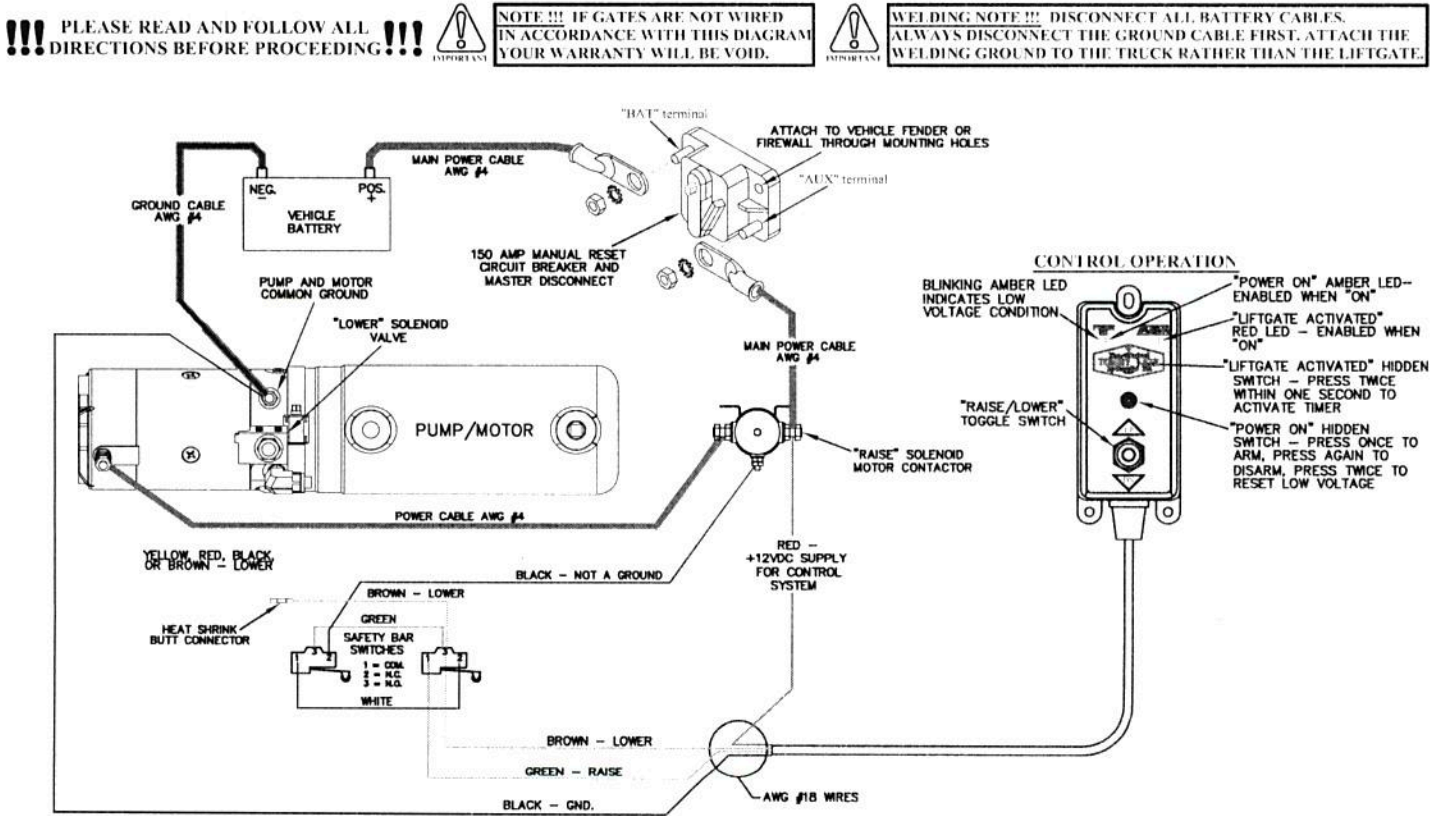


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