

Mercury 310 / ACBOX / Apollo 816

Quick Start Installation Guide

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Actuator And Control Box Installation (perform ALL steps in numerical order):

IMPORTANT!
Read entire manual before attempting the installation. This is NOT a "do-it-yourself" project. Use a qualified contractor to install this system. Read all safety information!

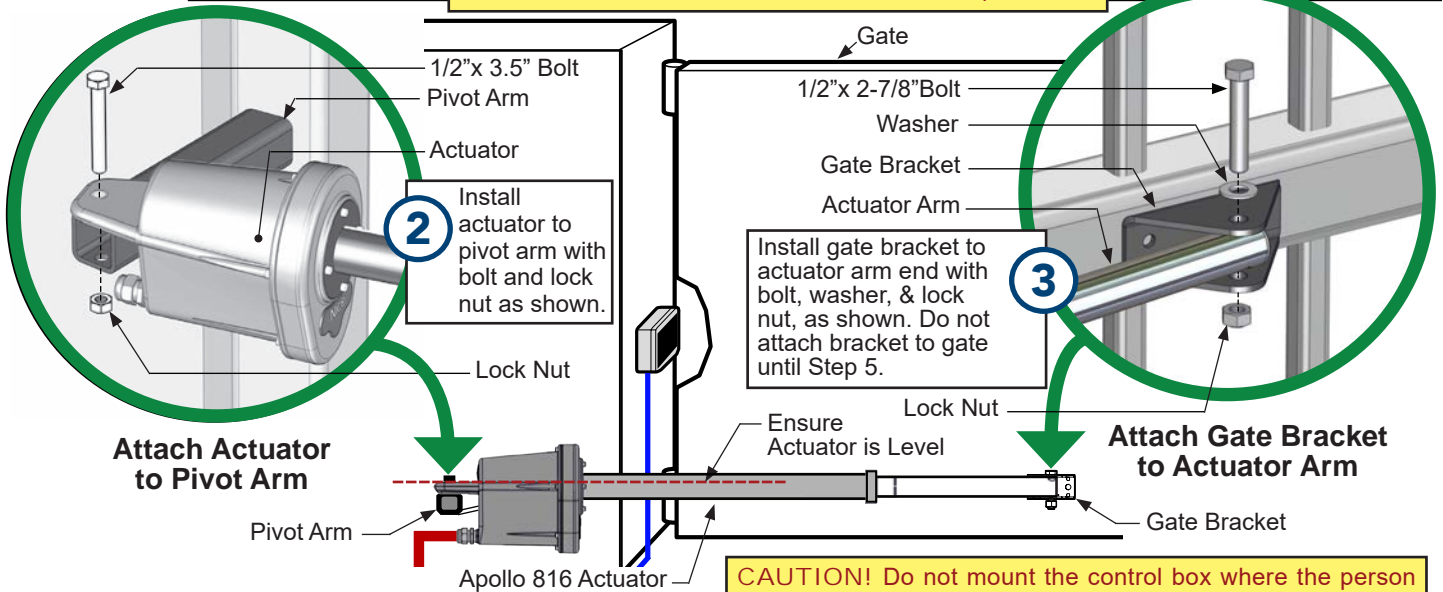
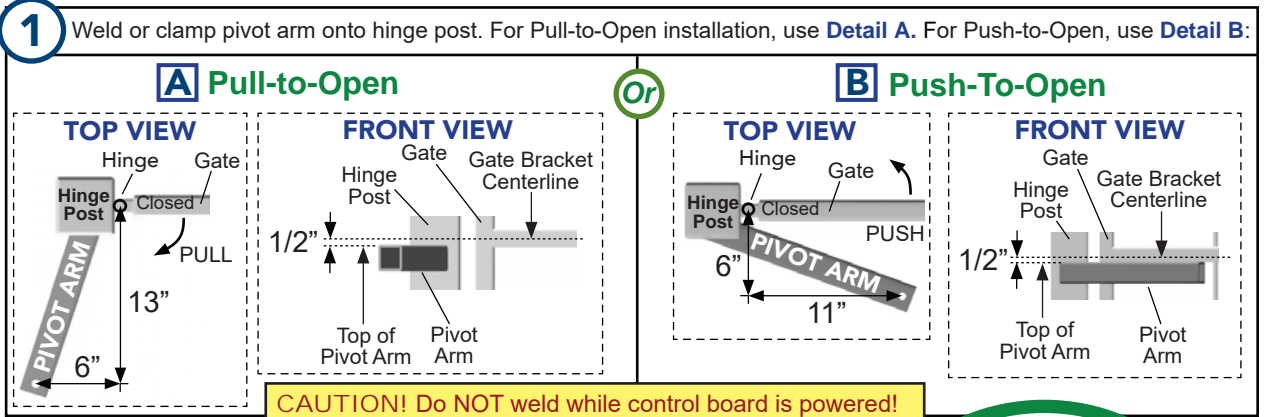
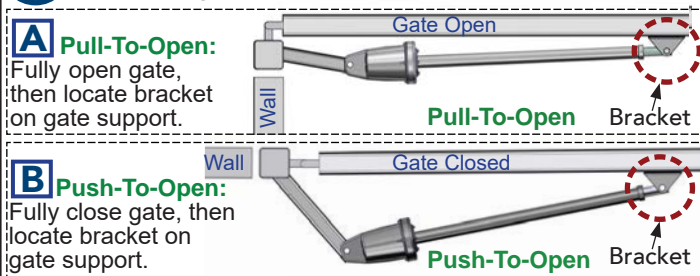


Fig-1: Pivot Arm, Actuator, & Gate Bracket

CAUTION! Do not mount the control box where the person using the push button on box can come in contact with the gate!

4 Ensure actuator arm is fully *retracted*, then position gate bracket on gate structural support per **Detail A** or **Detail B**:

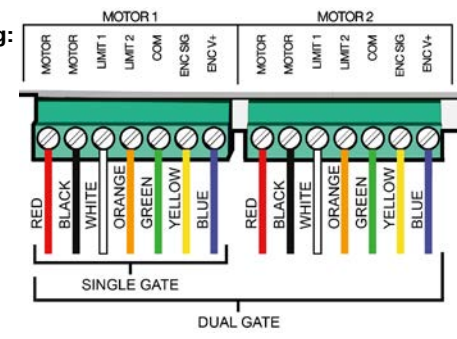


5 Affix Gate Bracket to gate structural support by welding or using bolt/nut.

6 Mount Control Box same side as primary actuator and min. 6 ft away from pivot arm.

7 **Apollo 816 Actuator Wiring:**

Pass single gate actuator cable through grommets in control box bottom and wire as shown. For dual gate, dig trench across drive, run 2nd cable through conduit, & wire as shown.

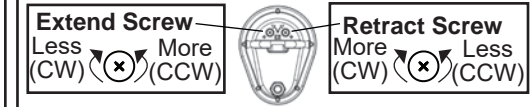


8 Remove power supply cover & run AC Cable into ACBox bottom. Wire to power supply:
Green = Earth
Black = Hot
White = Neutral
See Fig-3 on next page.

10 **Set 816 Actuator Mechanical Limits:**

- Remove plastic caps from limit adjust screws on 816 motor rear (see image).
- Use arrow button to run gate to *open limit* (gate stops & both LEDs light on Mercury controller).
- Select screw to adjust gate position as follows:
 - If arm **extended**, use **Extend Screw** (CCW = extend more, CW = extend less)
 - If arm **retracted**, use **Retract Screw** (CCW = retract less, CW = retract more)
- Use arrow button to run gate to *close limit* (gate stops & both LEDs light on Mercury controller) and adjust position per Step 3.
- Replace plastic caps over screws.

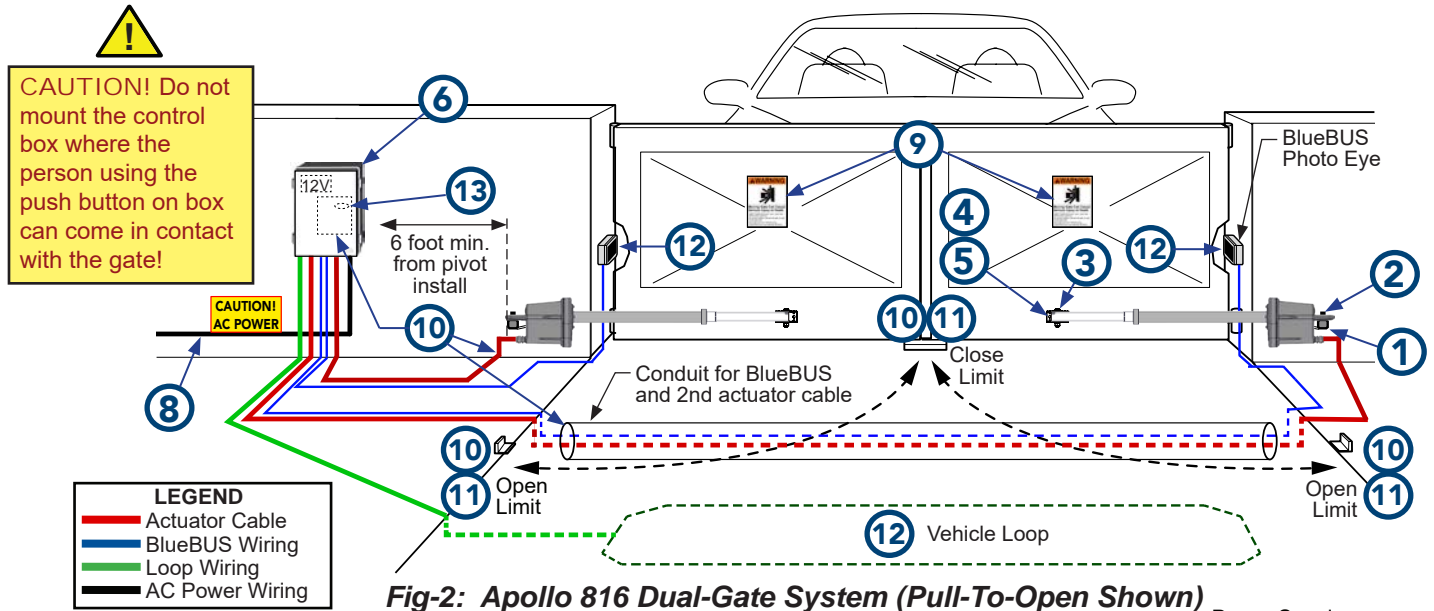
9 Attach warning signs to gate(s).



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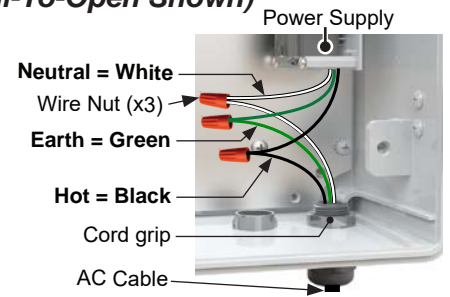
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- 11** Perform Gate Limit Learn procedure (see below right).
- 12** Connect other accessories, such as loop detectors, photo eyes, or other safety devices. See accessory inputs in image below.

13 To program the OXI receiver, press/hold desired button on remote control, then within 2 seconds press & release the STEP, OPEN, or LATCH button on Mercury controller. LED flashes twice & alarm chirps to indicate programming success.



- Gate Limit Learn Procedure:**
- Set function knob to LRN MOTOR 1 (display flashes **L1**).
 - Use Left/Right buttons to "jog" gate to between open and close limits.
 - Press/hold both left and right buttons for two (2) seconds.
 - Display will show solid **L1** and gate will run at crawl speed to first limit.
 - After reaching first limit, display flashes between **OP** and **CL** (LEDs also flash).
 - Observe *current* position of the gate and do only one of the following:
 - If gate is at *open* limit, press the **open** button.
 - If gate is at *close* limit, press the **close** button.
 - Gate auto-runs to 2nd limit at crawl speed & stops, then runs to 1st limit at normal speed & stops, then runs to the 2nd limit at normal speed & stops.
 - When finished, display will show either **OP** or **CL**, depending on buttons pressed during procedure.
 - If dual gate, set function knob to LEARN MOTOR 2 (display flashes **L2**) & repeat all steps for 2nd motor.

