

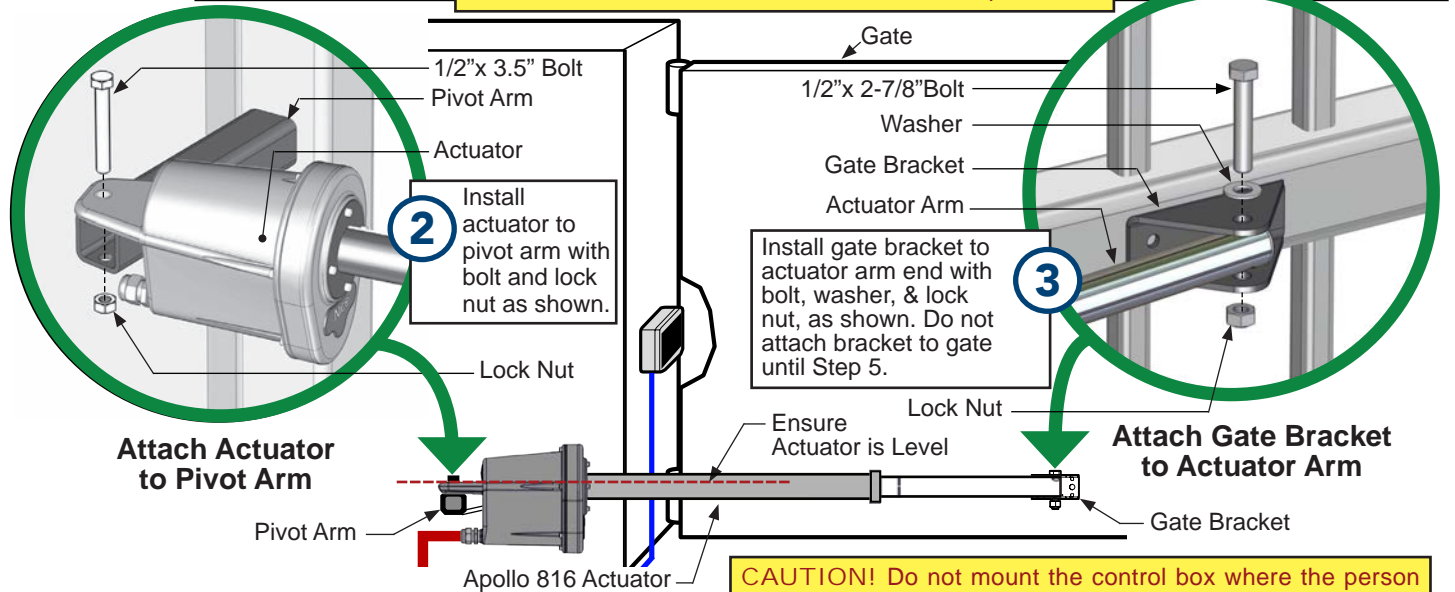
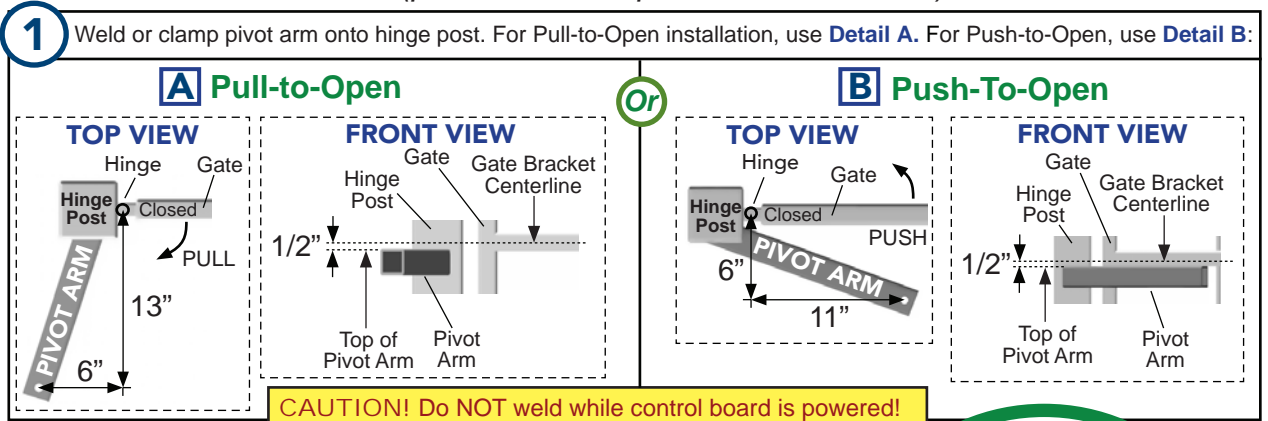
# Mercury 310 / SolarBOX / Apollo 816

## Quick Start Installation Guide

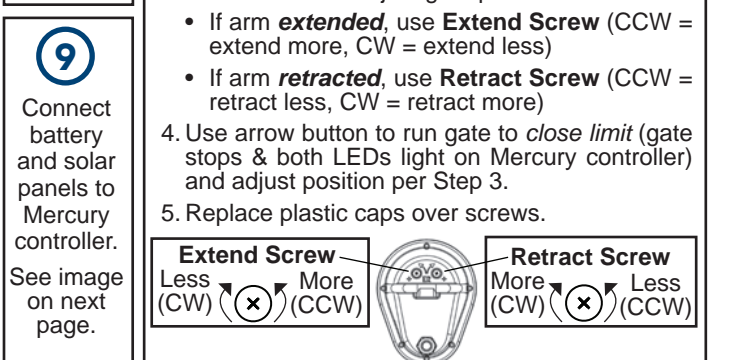
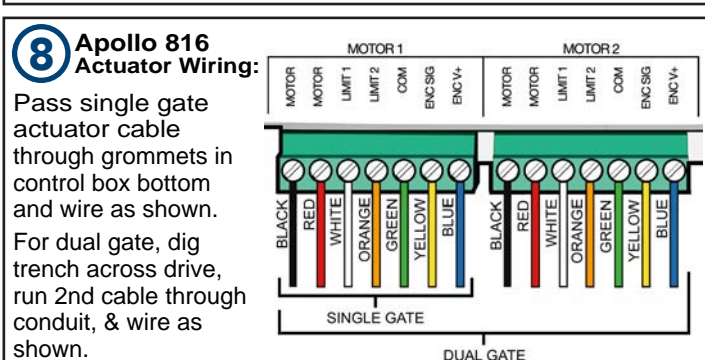
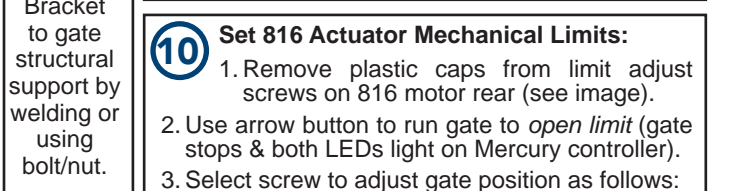
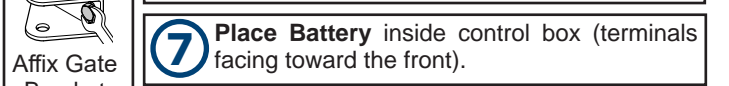
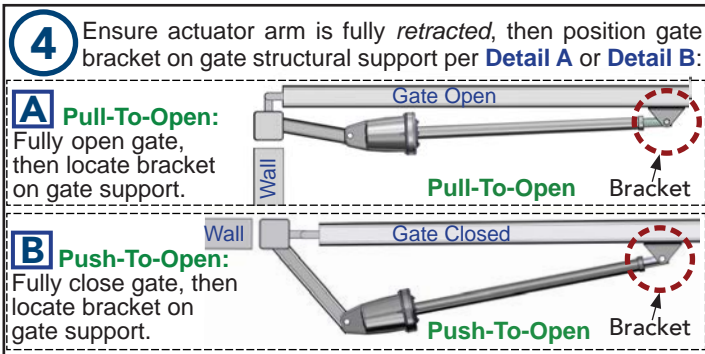
Nice

### 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!

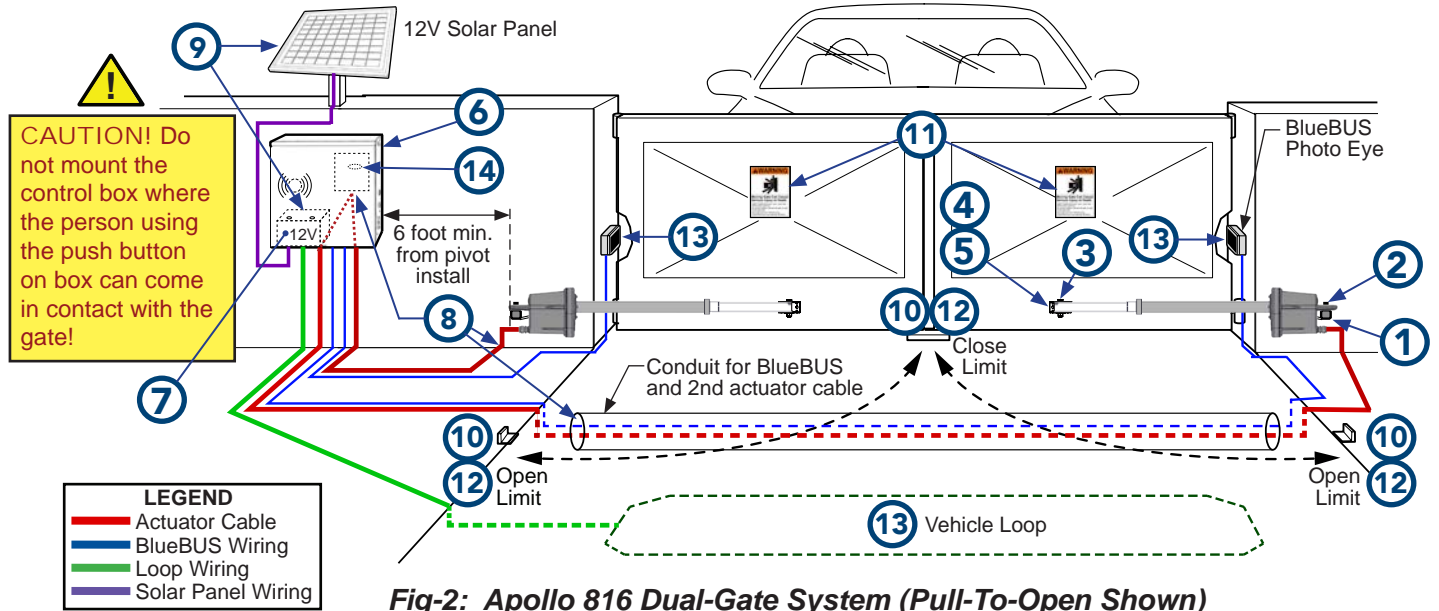


**Fig-1: Pivot Arm, Actuator, & Gate Bracket**

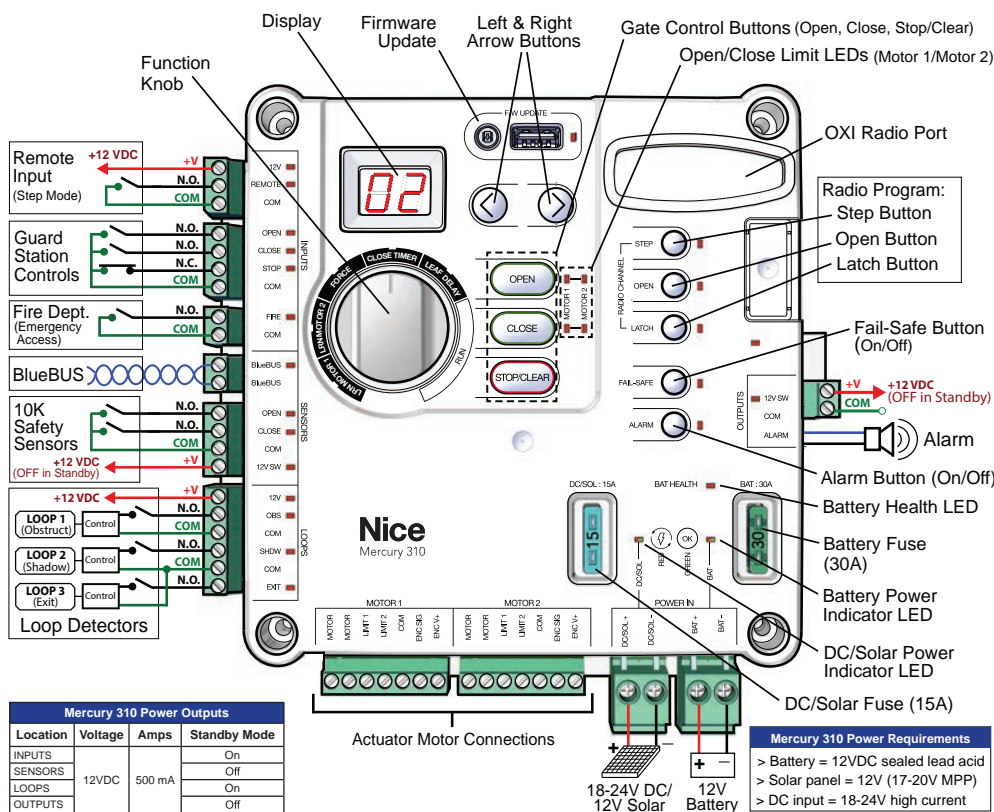
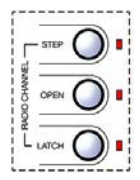


# Mercury 310 / SolarBOX / Apollo 816

## Quick Start Installation Guide



- 11** Attach warning signs to gate(s).
- 12** Perform Gate Limit Learn procedure (below right).
- 13** Connect other accessories, such as loop detectors, photo eyes, or other safety devices. See controller accessory inputs in the image below.
- 14** 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.

Mercury 310 Power Outputs			
Location	Voltage	Amps	Standby Mode
INPUTS			On
SENSORS	12VDC	500 mA	Off
LOOPS			On
OUTPUTS			Off

Mercury 310 Power Requirements	
> Battery	= 12VDC sealed lead acid
> Solar panel	= 12V (17-20V MPP)
> DC input	= 18-24V high current

**Fig-3: Mercury 310 Controller Features**