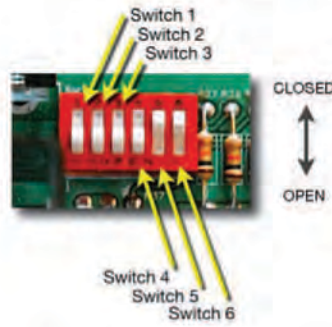


DIP SWITCH SETTINGS



Note:** In the figure shown left, Switches 1-4 are in the Closed (Up) position; Switches 5-6 are in the Open (Down) position. **Tip Closed is "towards the number."

***Note:** Always select simultaneous mode when using the Power Bolt Lock and sequential mode when using the Magnetic Lock.

***Note:** If, after enabling the "Auto-Close" feature; you find the gates are automatically *opening* rather than closing, the polarity of the gate wires are reversed at the control board. Simply reverse the positions of the wires at the "Gate" terminals. Now, after your gates open, they should "Auto-Close".

Auto_Close Adjustments (Switches 1 - 3)

SWITCH 1	SWITCH 2	SWITCH 3	FUNCTION
CLOSED (UP)	CLOSED (UP)	CLOSED (UP)	AUTO-CLOSE DISABLED
CLOSED (UP)	CLOSED (UP)	OPEN (DOWN)	AUTO CLOSE ENABLED - 5 SECOND DELAY
CLOSED (UP)	OPEN (DOWN)	CLOSED (UP)	AUTO CLOSE ENABLED - 10 SECOND DELAY
CLOSED (UP)	OPEN (DOWN)	OPEN (DOWN)	AUTO CLOSE ENABLED - 20 SECOND DELAY
OPEN (DOWN)	CLOSED (UP)	CLOSED (UP)	AUTO CLOSE ENABLED - 30 SECOND DELAY
OPEN (DOWN)	CLOSED (UP)	OPEN (DOWN)	AUTO CLOSE ENABLED - 40 SECOND DELAY
OPEN (DOWN)	OPEN (DOWN)	CLOSED (UP)	AUTO CLOSE ENABLED - 50 SECOND DELAY
OPEN (DOWN)	OPEN (DOWN)	OPEN (DOWN)	AUTO CLOSE ENABLED - 60 SECOND DELAY

Motor Drive Mode (Switch 4)

SWITCH 4	FUNCTION
CLOSED (UP)	SIMULTANEOUS MOTOR DRIVE MODE
OPEN (DOWN)	SEQUENTIAL MOTOR DRIVE MODE

Lock Type (Switch 5)

SWITCH 5	FUNCTION
CLOSED (UP)	POWER BOLT LOCK SELECTED
OPEN (DOWN)	MAGNETIC LOCK SELECTED

Lock Enable (Switch 6)

SWITCH 6	FUNCTION
CLOSED (UP)	LOCK MOTOR DISABLED
OPEN (DOWN)	POWER BOLT OR MAGNETIC LOCK ENABLED

WIRING TERMINALS

(Figure e, Page 3) Below are explanations of the proper use for all 18 wiring terminals located on the control board.

- Solar/AC** - Input for Solar Panel or supplied AC transformer. DO NOT USE CONVENTIONAL 110V.
- Battery** - Input for battery source, requires correct polarity: Red (+), Black (-).
- Switch** - System on/off power switch (pre-wired).
- CSF (Contact Strip Front of Gate)** - Input for contact safety edge installed on front of gate.
- CSB (Contact Strip Back of Gate)** - Input for contact safety edge installed on back of gate.
- EMER. VEH. (Emergency Vehicle)** - Input for Emergency Vehicle Opener.
- EXIT DET. (Exit Detention)** - Input for exit devices to open gate only.
- Keypad** - Input for wired keypad or other fixed input device in sight of gate.
- Stop** - Input for non-contacting safety sensors, such as an optical sensor (photo eye), with a normally open output.
- Spare 12V** - These three terminals provide access points for 12VDC power that may be required to power peripheral accessories and/or safety devices. **CAUTION - Do NOT connect ANY voltage source to any of these terminals. Doing so will result in damage to circuit board.**
- Alarm** - Output for 12VDC (100 dB) alarm (pre-wired).
- Light** - Output for 12V Lighting. **Do not exceed 40W of lighting.**
- Lock** - Terminal points for lock motor(s) leads. Multiple locks may be employed.
- Mag-Lock** - Terminal for magnetic lock leads.
- Gate 1 & Gate 2** - Terminals for gate motor leads.

TROUBLESHOOTING

The gate opens ok, but after closing, it reopens.

- Excessive closing pressure. If the gate is over rotating into a fixed stop, loosen bottom collar and readjust gate position.
- The Auto-Reverse sensitivity is too high. Readjust sensitivity.
- Power-Bolt Lock may be misaligned, adjust accordingly.

The gate moves a few feet, but then stops and/or reverses.

- The auto-reverse sensitivity is too high.
- Battery voltage may be too low. Make sure charger or solar panel are delivering current.

The gate will not open using the keychain or keypad transmitters.

- Check switch located on bottom of control box to ensure it is in the "on" position.
- Code switches in the transmitters may not match the switches on the receiver board. Set codes to match.
- Battery may be low or dead inside transmitter.
- Fuse may be blown on the control board.
- Check for loose wires on control board.
- Battery voltage may be too low. Make sure charger or solar panel are delivering current.
- Possible defective wireless receiver board or transmitter.

Keychain transmitter works only at a short distance.

- Battery may be low inside transmitter.
- Reception is being blocked. External antenna may be required.

Only one gate will operate (dual gates).

Check the control board. Wires from gates should be wired to ports "Gate 1" & "Gate 2" separately.

Audible alarm sounding.

Reset on/off switch. Check gates for obstructions. If alarm continues, switch off for 5 minutes.

The gate opens but then closes within a few seconds.

The auto-close feature may be activated.

The Power-Bolt Lock will not operate.

- Check wiring, both wires from the lock should be wired to the port labeled "Lock".
- Check the "auto-close" switches on the control board. Switch 1 must be in the "Closed (Up)" position.

Power Bolt Lock closes when it should open, and opens when it should close.

Reverse polarity on the terminal labeled "Lock".

Gate is out of alignment after closing.

Bottom mounting bracket is not tight enough. Realign gates and tighten bottom collar sufficiently.



Ultra Revolution™
Concealed Gater Operator



This changes everything you know about Powered Estate Gates

Instruction Manual

This changes everything
you know about
Powered Estate Gates

TOOLS NEEDED:

1/4" Allen Wrench, Mounting Bolts,
Square, Drill, String Level, Phillips Head
Screwdriver, Small Flathead Screwdriver,
Wire Strippers, Pencil

Once your pillar/post is secured in the ground, choose the proper place for your lower bracket to be placed. Make sure bracket is square to the post and mount the bracket using mounting bolts which correspond to your pillar/post. **For single gate installation, proceed to step 3.**

For a dual gate installation, use a string level to mount the lower bracket on the second pillar/post. Make sure bracket is plumb and square to the post to ensure that your gates will line up perfectly.



Feed the wire from your operator post through the hole located inside the bottom bracket. This will help prevent damage to the wire when mounting your gate/operator.

Place your gate/operator post into the bottom bracket, **making sure not to pinch the wire.**

Once your gate/operator post is resting upright in the lower bracket, place the upper bracket onto the top pivot of your gate/operator post and mark your drill holes. **Make sure top bracket is square to post.** Mount your top bracket using mounting bolts which correspond to your pillar/post.

Next, tighten the screws on the collar clamp of the lower bracket using a 1/4" Allen Wrench. This will enable the required tension for power operation. *For manual gates, leave these screws slightly loose so gates can swing freely.* **Repeat steps 3 through 6 on opposite side/post for dual installations.**



1 Mount your control box to your desired location with the provided mounting screws, using a phillips head screwdriver or drill. *See figure 1.*



4 Connect the wire from the wireless receiver board (located on the inside cover of the control box) to the port on the control board. *See figure 4.*



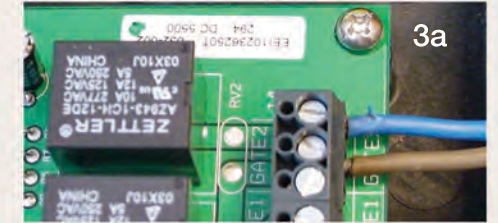
2 Feed the wires from your gate/operators through the cable glands located on the bottom of the control box. *See figure 2.*



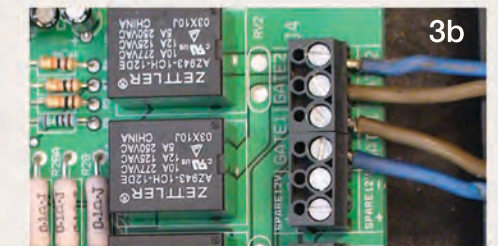
5 Connect the battery by joining the pre-wired wires from the control board to the battery. Make sure the wires are connected black to black and red to red. *See figure 5.*



3 *For single gate installations,* connect the wires from your gate/operator to the wire port labeled "Gate 2" on the Control Board (Fig. 3a)



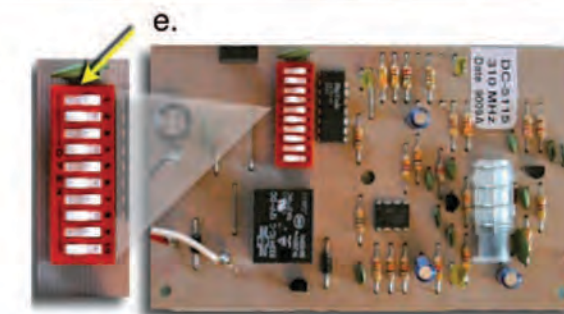
For double gate installations, connect the wires from your second gate/operator to wire port labeled "Gate 1" (Fig. 3b). Color sequence from top to bottom should be: Blue-Brown-Brown-Blue on a double gate.



CONTROL BOARD



- a. **Dip Switches** (A small red block containing six dip switches, allows for auto close/open & lock settings)
- b. **Sensitivity Adjustment Potentiometers** (Round controls with adjusting screw heads, allows sensitivity adjustments)
- c. **Fuses** (15 amp limit)
- d. **Wiring Terminals** (There are 18 sets of wiring blocks to accommodate accessories)
- e. **Wireless Receiver Board** (allows for programming of wireless devices to operate gate)



The Wireless Receiver Board allows you to program wireless remotes to operate your gate. Simply set the dip switches on the Wireless Receiver Board to match the dip switches inside your wireless remote.

