



# GateCrafters Automatic Gate Lock Instruction Manual



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**GCLOCK**

## Introduction

The GateCrafters Automatic Gate Lock is designed to provide extra security and stability to your gate opener system. There are numerous different mounting methods on various types of gates. For that reason, no mounting hardware is included in this kit. For chain link gates, U-bolts, nuts and washers are used to mount the lock. Bolts, washers and nuts are used to attached the receiver to the gate. For other type of gates such as the tube type, bolts, washers, and nuts are the preferred method to mount both the gate and the receiver. See the examples on page 4.

To insure that the gate lock closes firmly on the pin in the receiver, some adjustments of gate closure may be necessary. See the page of your gate opener manual on closed position adjustment. If your gate is set up in the push-to-open mode, the lock needs to be installed on the outside of the gate. See the page of your gate opener installation manual to reset the closed position adjustment.

**Note:** Before beginning installation of your automatic gate lock, make sure that you have all the parts included in Illustration A shown below.

- |                                       |                             |
|---------------------------------------|-----------------------------|
| <b>1</b> Gate lock and Wire           | <b>6</b> Lock Circuit Board |
| <b>2</b> Lead wire to Battery (red)   | <b>7</b> Lock Key (2)       |
| <b>3</b> Lead wire to battery (black) | <b>8</b> Lock               |
| <b>4</b> Nylon wire ties (4)          | <b>9</b> Lock Pin           |
| <b>5</b> White wire                   | <b>10</b> Lock Receiver     |

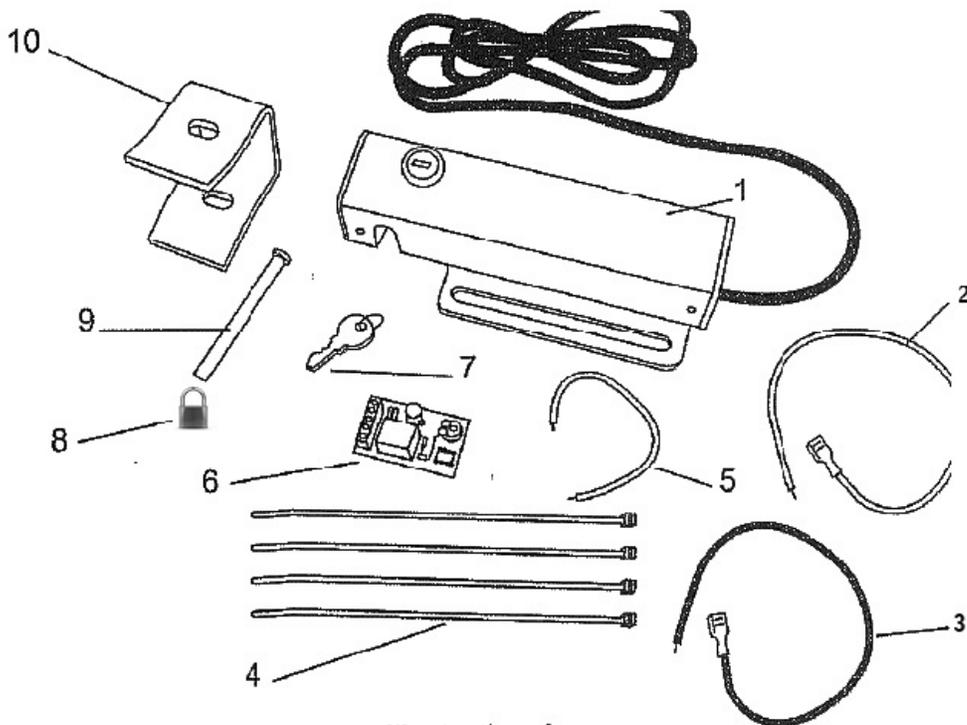
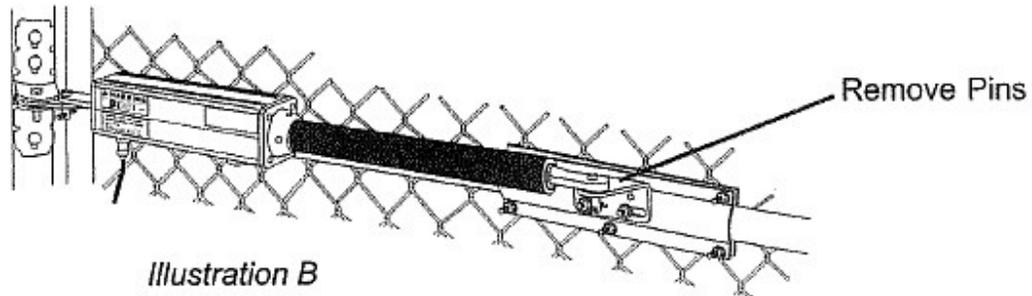


Illustration A

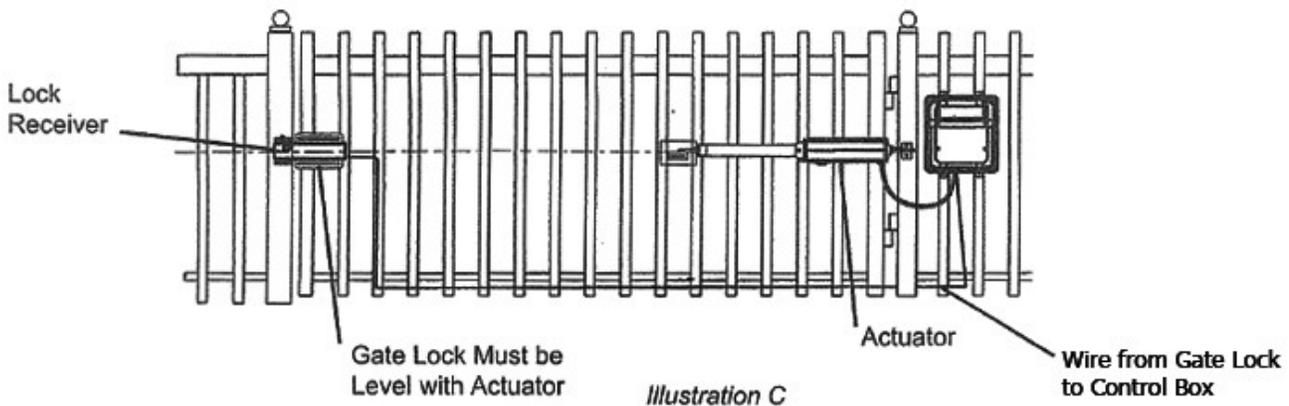
## Mounting the lock and receiver

**Step 1:** Remove the front end of the actuator that is attached to the gate bracket with a clevis pin and clip pin. Wire tie or clamp the front end on the gate to support it. This will enable you to swing the gate manually while installing the gate lock. Please note that the front ends of both actuators need to be disconnected for dual gate systems.



**Step 2:** Swing the gate to the closed position. Find the best position to mount the lock and the receiver. It must be left with the actuator. The lock should be mounted on a gate cross member or other solid part of the gate surface. The receiver should be mounted on the adjacent fence post. See Illustration C.

**Step 3:** Using the provided wires ties or C-clamps, position the lock in an approximate mounting position on a cross member or other mounting surface that is level with the actuator. The lock can be moved into an exact position late in the installation process.

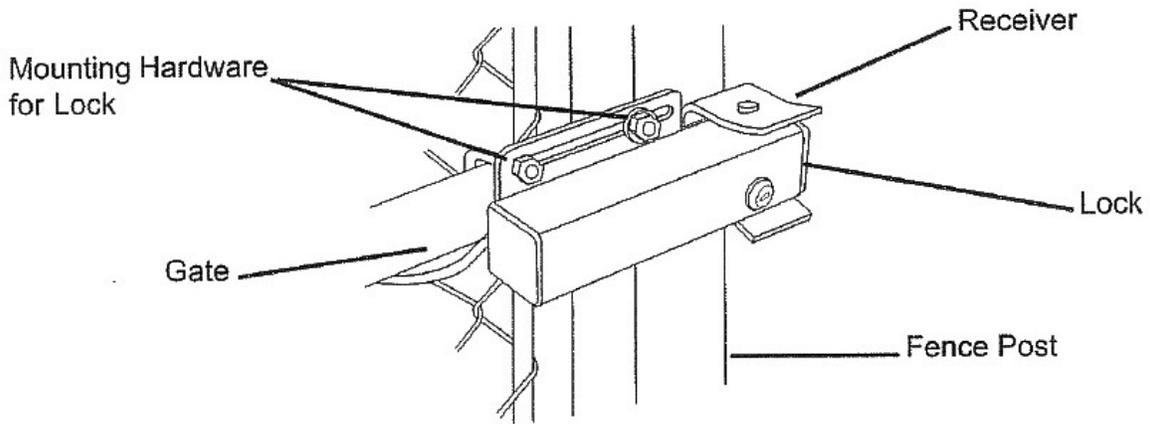


**Step 4:** Find a location on the fence post level with the gate lock and temporarily tie the lock receiver into position using the nylon ties provided. Slide the gate lock back and forth until it lines up with the receiver. The pin hook on the receiver must line up with the slot in the lock. Once this position is achieved, mark the post through the center of the two holes in the receiver.

**Step 5:** Drill through the marks on the post and attach the receiver with the mounting bolts, washers and nuts that you have purchased.

**Step 6:** The gate lock must now be permanently mounted to the gate cross member or gate surface. Make sure that lock is aligned with the receiver and mark holes on the gate through the upper and lower slots on the lock.

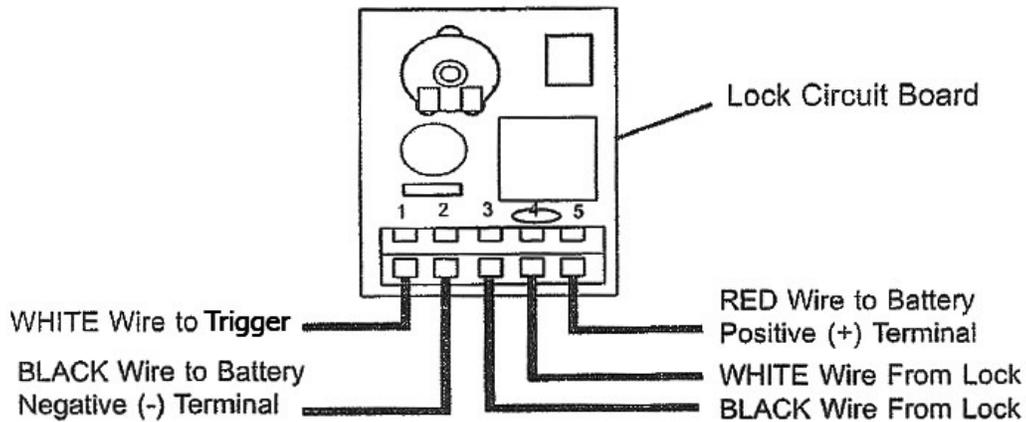
**Step 7:** Drill holes through the marks and attach the lock to the gate surface with the appropriate hardware. **Do not use bolts greater than 5/16 inch in diameter** as they will not fit through the slots. See illustration below.



*Illustration D*

## Connecting the lock to the gate opener control

**Option 1:** If your gate opener has a lock output that provides 12-24VDC at the beginning of an opening cycle, you do not need the lock control board. Connect the white wire from the lock to positive and black wire from the lock to negative. (**Note:** lock draw is 1.5 amps)



*Illustration J*

**Option 2: If your gate opener does not have a lock output the lock circuit board is included to make triggering of the lock possible.** Follow the drawing above.

**Explanation of a trigger:** The trigger would be a location on the board in which positive 12VDC power is supplied during the opening cycle. The positive power must be directly provided through the control board from the battery. If the board has a positive power output that is produced by a component of the board rather than a direct pathway opening from the battery, the lock board will not trigger the lock to release. Typically a good source for this trigger will be one of the motor leads.

**See GateCrafters.com (type the word help into the search and click the first link to access gate opener specific wiring instructions for gate openers we carry)**

**Alternate solution if an appropriate trigger is not locatable on the gate opener control board.**

- Acquire a 12 or 24 V relay (12 or 24 V depending on the voltage output to the motors) (Automotive store typically have these)
- Wire the coil of the relay into the two motor power output leads of the control board along with the motor wires. (no polarity on relays)
- Wire the N.O. (normally open) terminal of the relay to terminal 1 of the lock control board.
- Wire the COM (common) terminal of the relay to terminal 5 of the lock control board.
- Terminal 5 of the lock control board should still be connected to the positive lead of the battery as well.

### **Location for lock board in control box:**

Use silicone or Velcro and attach the lock control to the inside of the gate opener control box.  
Do not expose the lock control board to weather