




MIGHTY MULE FM143-SL Automatic Gate Lock Installation Guide

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IMPORTANT: Before you install the automatic gate lock be sure your gate is level, moves freely on its hinges, and does not bind or drag against the ground.

PLEASE NOTE: Because of the various mounting applications, **no mounting hardware is provided** with the GTO Automatic Gate Lock. All necessary mounting hardware can be obtained from your local hardware store. This manual shows two examples of the most common installations and should provide insight into most other applications. If you have any questions during installation, please call [800-543-1236](tel:800-543-1236) for technical support.

Before You Start...

For the Automatic Gate Lock to work properly, the gate must close firmly against a positive stop and engage the lock catch against the lock receiver. Achieving optimal closure may require slight adjustments to the gate opener

settings.

Installing the lock with the Gate Opener may require resetting closed limits and changes to the stall force. See Setting the Gate Closed Position in your Gate Opener Installation Manual for information on these adjustments. Set the limits so that the arm holds the gate snug against the stop in the closed position.

IMPORTANT: You may need to spray the locking mechanism with silicone spray initially to help the latch move freely.

If you are installing the lock on a Push-to-Open gate (gate opens out), the lock must be installed on the outside of the gate. Depending upon the installation, the gate post may need to be “pocketed” to accommodate the lock receiver or you may want to purchase the column mount receiver. Contact the GTO Technical Service Department at [850-575-4144](tel:850-575-4144) for assistance if needed.

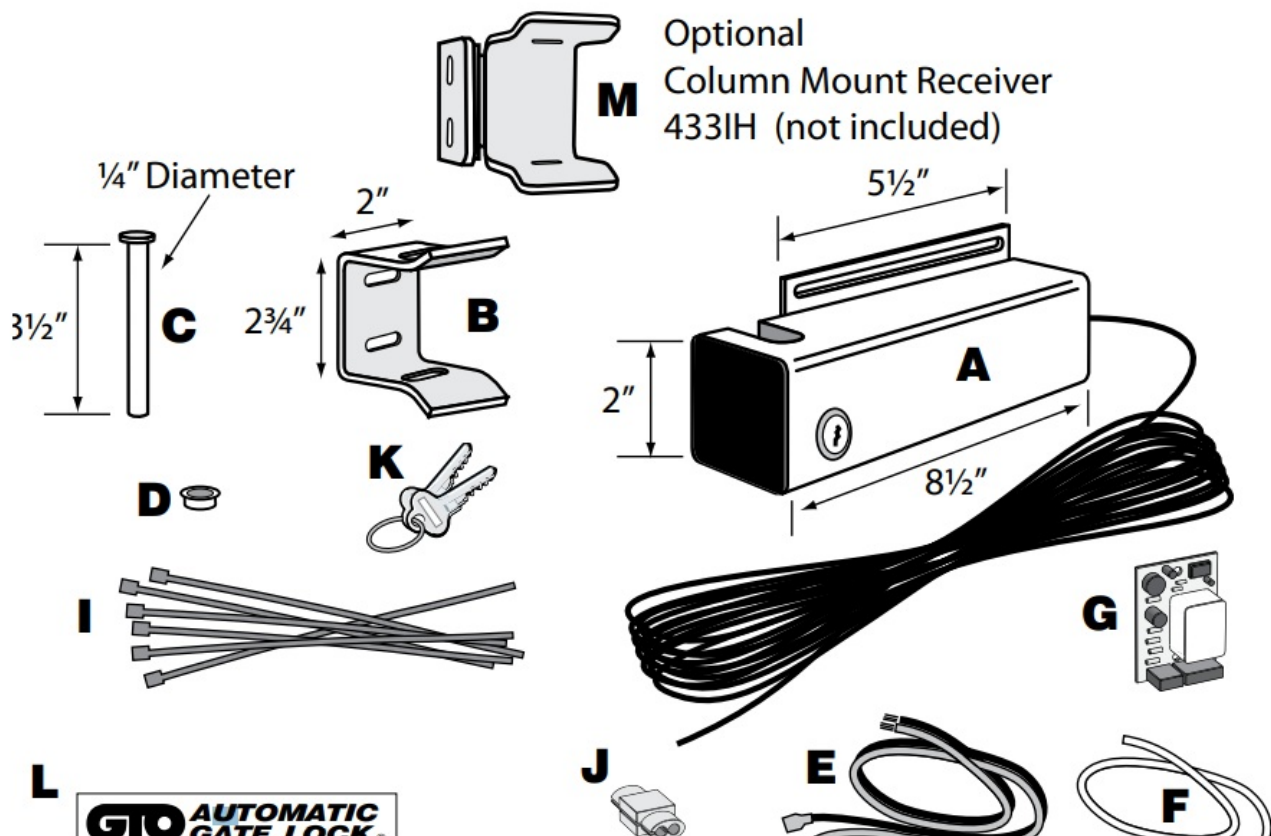
NOTE: Positive stops are required for dual gate applications.

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Be sure you have all the parts:

A – Lock with low voltage wire	E – 6 nylon cable ti
B – Lock Receiver	F – Lock Keys (for
C – Clevis Pin	G – Lock Decal
D – Locking Cap	



What else do you need?

Mounting hardware is **not included**. Read these instructions completely and review the installation examples to determine the mounting hardware required for your application.

NOTE: The Lock is designed to use mounting hardware **up to 5/16"** in diameter. For a more secure installation, use lock washers and lock nuts on all mounting hardware.

For most **IRON or ALUMINUM TUBE** gates you will need:

Carriage bolts, washers, and nuts for the lock and receiver. (See Illustration B, page 3)

For most **CHAIN LINK** gates you will need:

U-Bolts, saddles or carriage bolts, washers, and nuts for the lock.

Bolts, washers, and nuts for the receiver. (See Illustration C, page 3)

The installation has two parts:

1. Mounting The Lock and Lock Receiver
2. Connect to the Control Board

Once you have the necessary mounting hardware, you can begin the installation.

Installing The Gate Lock

NOTE: The Automatic Gate Lock can be installed on single and dual gate systems. Use the appropriate instructions for the system you have – SINGLE GATE (below) or DUAL GATES (page 4).

Single Gate Installation

Turn power switch OFF on the bottom of the control box. Disconnect gate opener by removing hairpin clip and clevis pin from the gate bracket end of the opener. Disconnecting the opener will allow the gate to swing freely during installation of the gate lock.

Step 1: With the gate in the closed position, determine the best location for the lock and lock receiver. The lock and receiver must be level and aligned with the opener. Also, the lock should have a solid surface or cross member to provide stability.

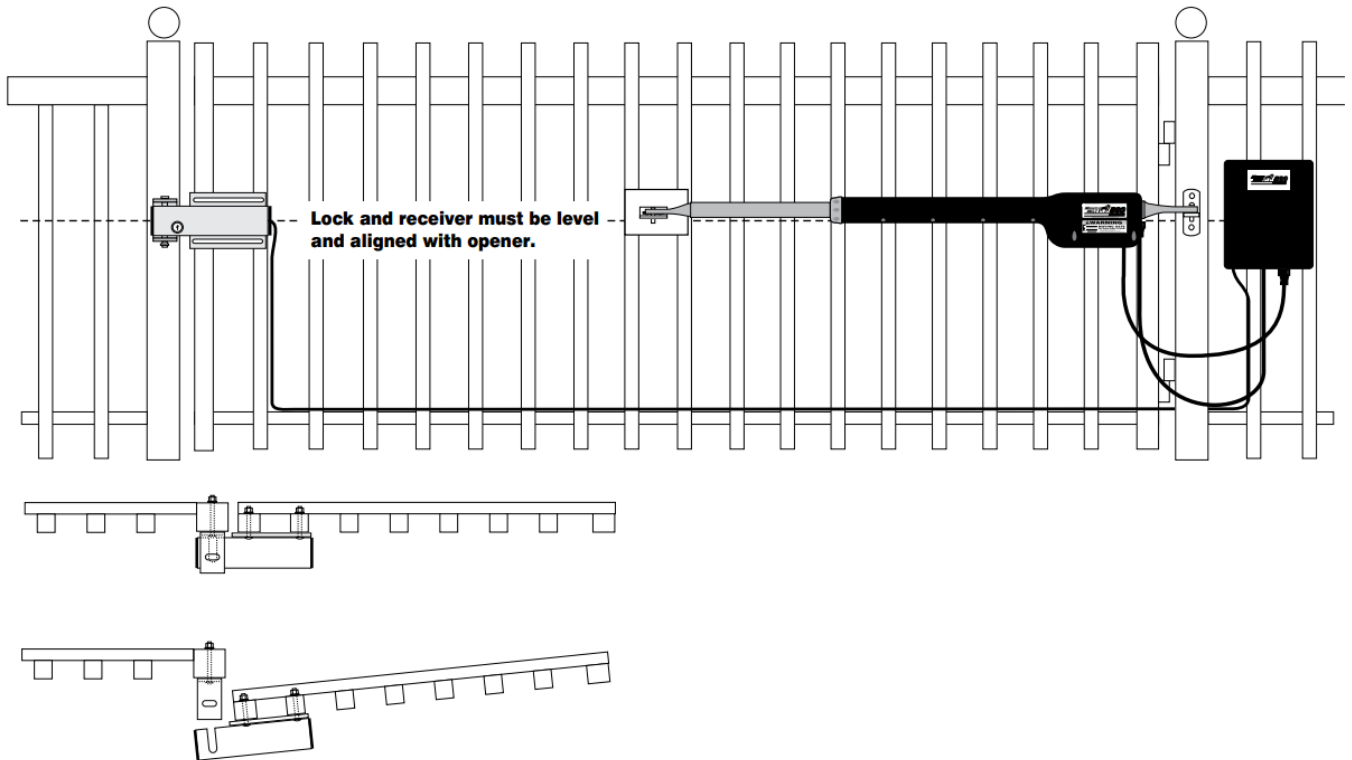
Step 2: Clamp receiver or position (see page 5, step 3) and lock together (with receiver pin hole and lock slot aligned) against the gate post, mark their positions to drill receiver holes (See Illustration B and C, page 4). The receiver must be mounted with carriage bolts, not U-bolts, to allow lock to seat properly.

Fasten the receiver to the gate post.

Step 3: Hold latch open with key to operate the gate and check closed limit and lock alignment. Drop pin in receiver but don't put the cap on. Recheck the lock's position and alignment, then mark its position for drilling holes.

Step 4: Drill the holes on gate supports through the slots in the lock bracket. U-bolts and saddles can be used to mount the lock on chain link gate supports. Secure the lock to the gate. Install clevis pin and locking cap by placing clevis pin through slots in lock receiver and hammering the clevis pin into the locking cap (See Illustration D page 4), secure the lock bracket and check the alignment again.

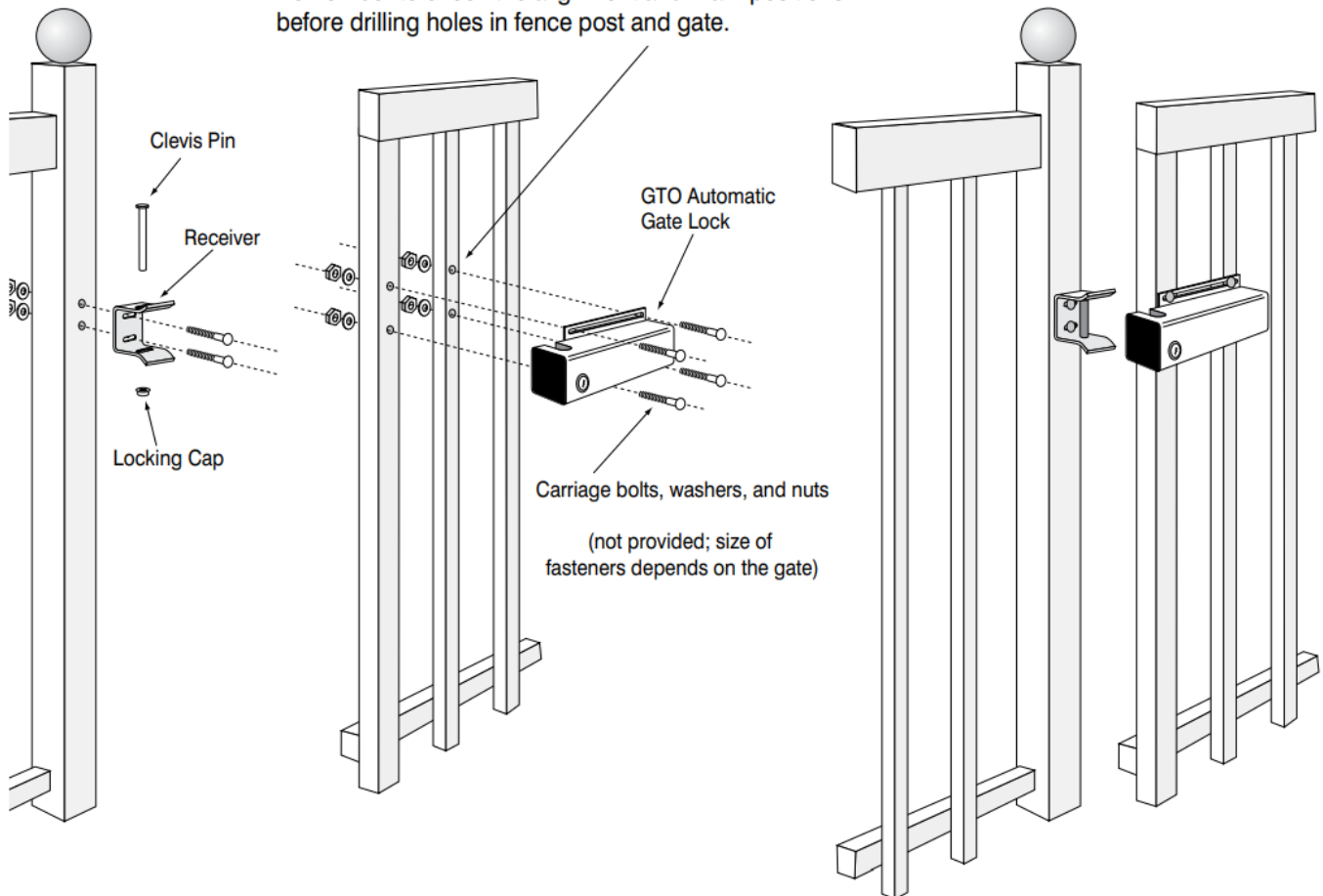
Illustration A



Iron or Aluminum Tube Fence and Gate Installation

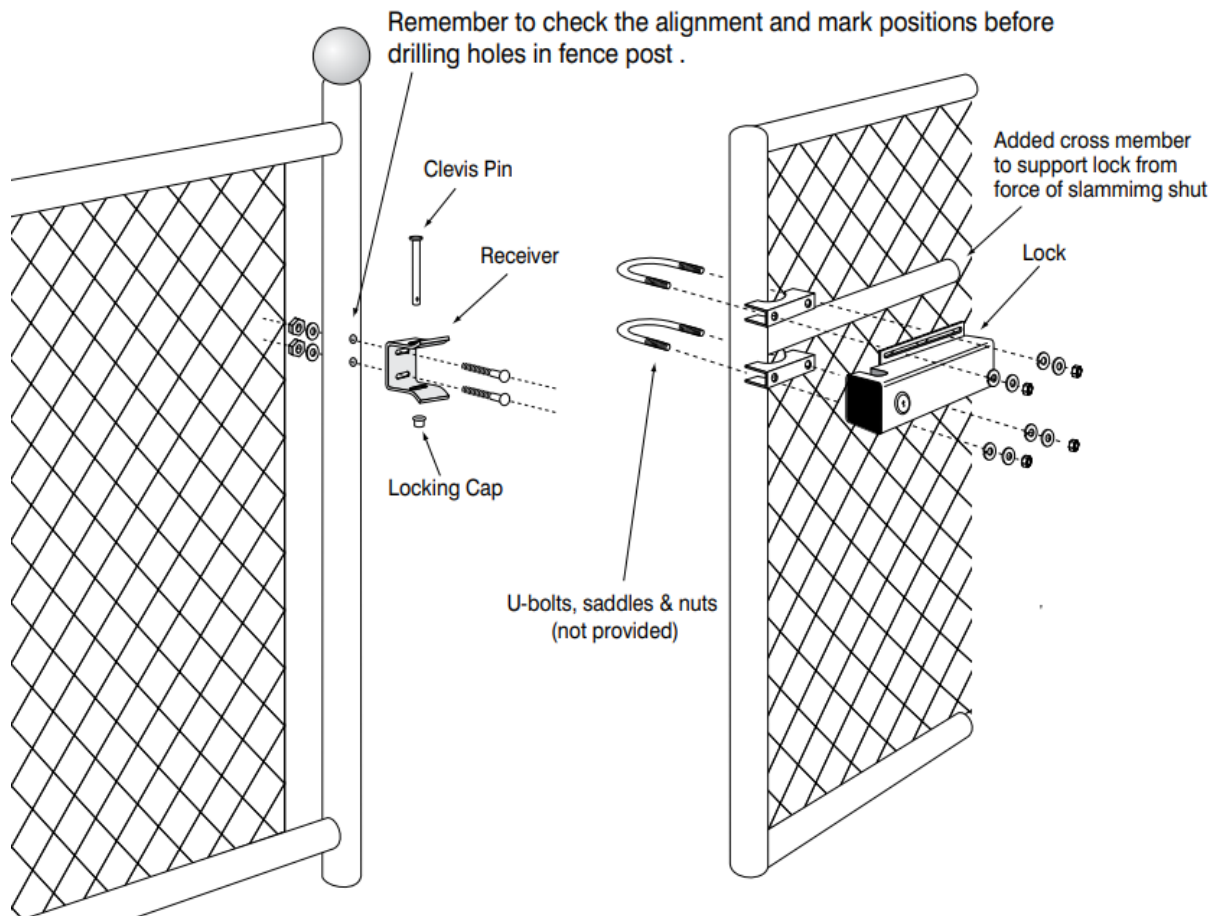
Illustration B

Remember to check the alignment and mark positions before drilling holes in fence post and gate.



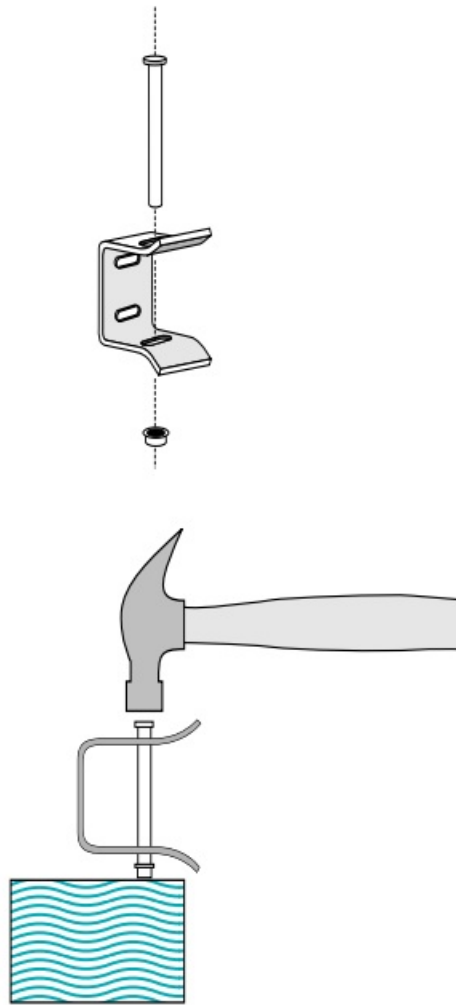
Chain Link Fence and Gate Installation

Illustration C



Locking Cap Assembly

Illustration D



Dual Gate Installation

Turn the power switch OFF on the bottom of the control box. Disconnect gate openers by removing the hairpin clip and clevis pin from the gate bracket end of the openers. Disconnecting the openers will allow the gates to swing freely during the installation of the gate lock.

NOTE: In a DUAL GATE INSTALLATION the gate opener on the same side of the driveway as the control box is known as the MASTER GATE OPENER and the gate is the MASTER GATE. Conversely, the gate opener on the other gate is referred to as the SECOND GATE OPENER and the gate the SECOND GATE.

Step 1:

IMPORTANT: To use the gate lock on a dual gate system, the gate sequencing must be set so the MASTER GATE opens first and closes last, and the gate lock has to be mounted on the MASTER GATE and the lock receiver is mounted on **the SECOND GATE. The SECOND GATE requires a positive stop** (See illustration on page 5). If your gates are not sequenced in a manner that works like this, you'll have to change the sequencing DIP switches on your gate opener control board. Follow the instructions in your gate opener installation manual for programming dual gate sequencing.

Contact GTO Technical Service at 1-[800-543-1236](tel:800-543-1236) for additional information.

REFER TO YOUR OPENER'S MANUAL FOR DIP SWITCH SETTINGS.

With the sequencing set correctly follow the steps and diagrams below to mount the lock to the gates.

Step 2: With the gate in the closed position, determine the best location for the lock and lock receiver.

The lock and receiver must be level and aligned with the opener. Also, the lock should have a solid surface or cross member to provide stability.

Step 3: Position receiver and lock together (with receiver pin hole and lock slot aligned) to the gates, mark their positions to drill holes (see Illustration E and F, page 6). The receiver must be mounted on the SECOND GATE

with carriage bolts, not U-bolts, to allow the lock to seat properly.

Step 4: Recheck the lock's position and alignment. Hold latch open with key and operate the gate. Drill the holes on gate supports through the slots in the lock bracket. U-bolts and saddles can be used to mount the lock on chain-link gate supports. Secure the lock to the MASTER GATE. Install clevis pin and locking cap by placing clevis pin through slots in lock receiver and hammering the clevis pin into the locking cap (see Illustration G), secure the lock bracket, and check the alignment again.

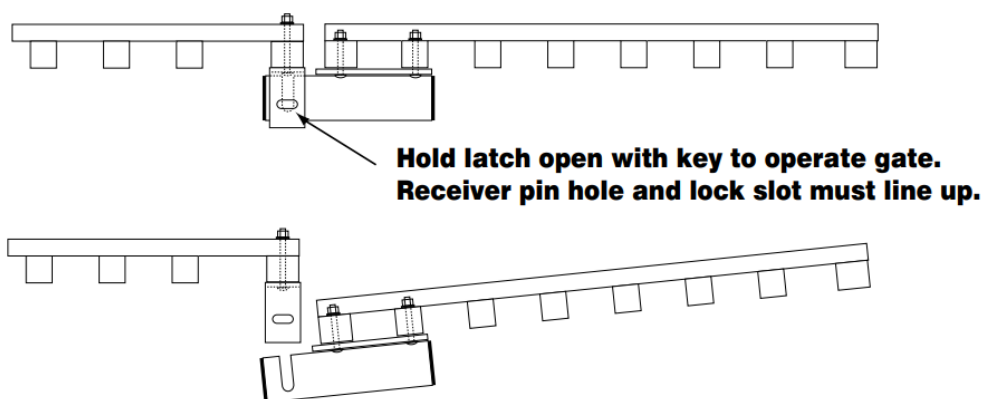
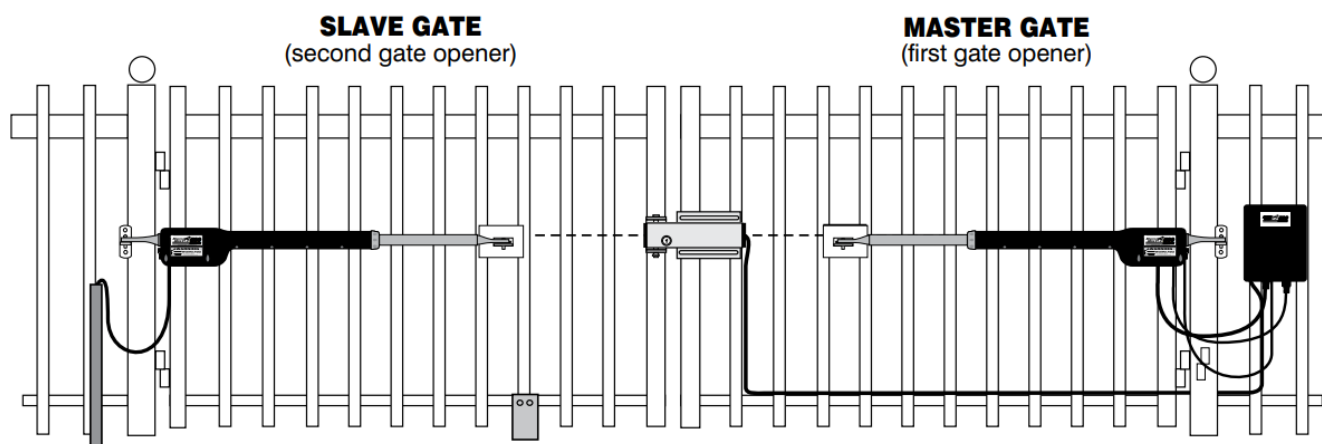
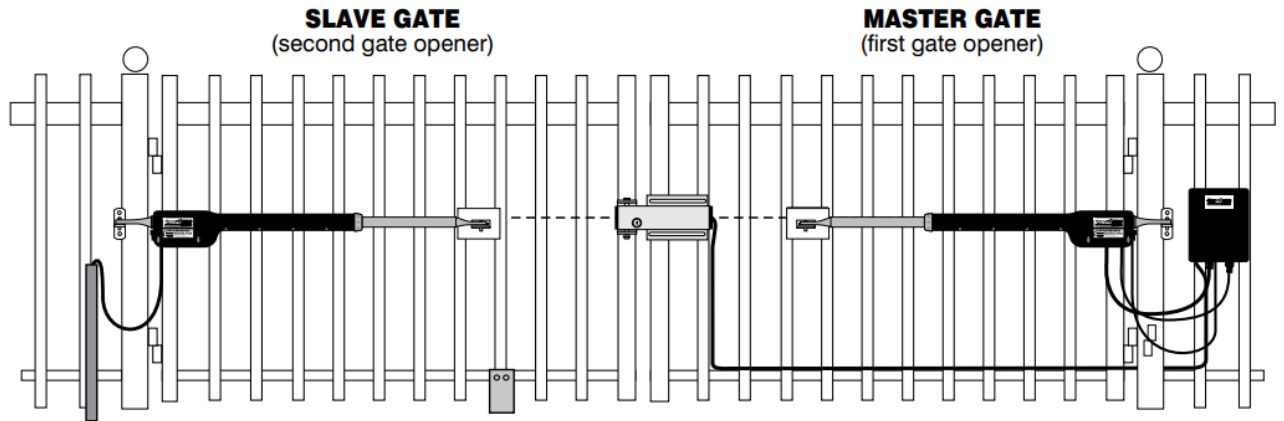


Illustration E



Lock and receiver must be level and aligned with opener.

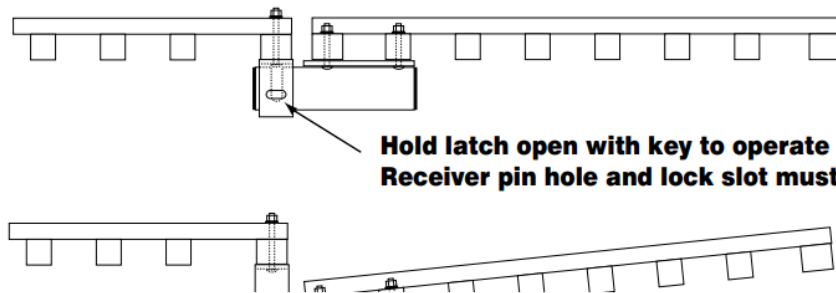


Illustration F

Remember to check the alignment and mark positions before drilling holes in fence post .

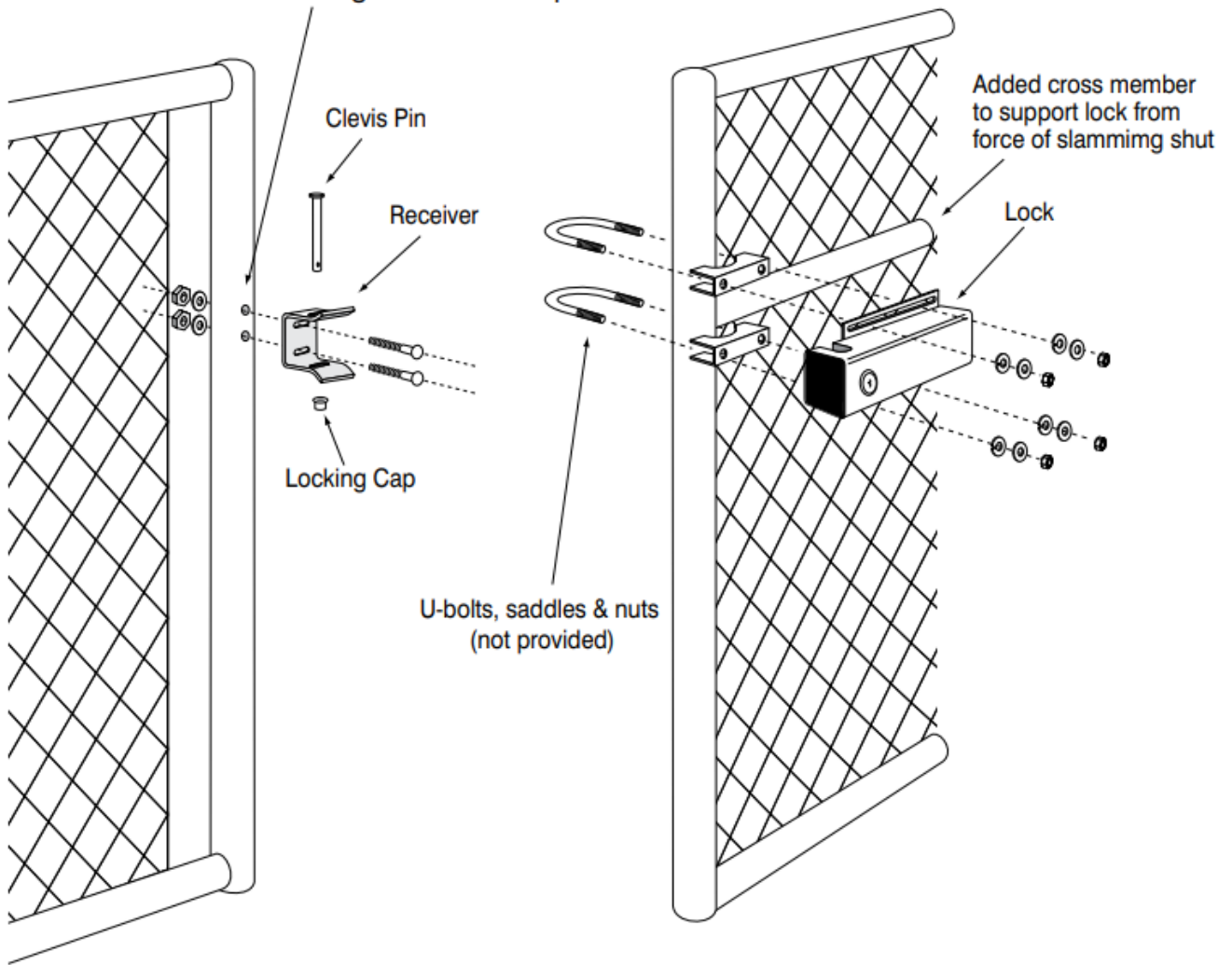
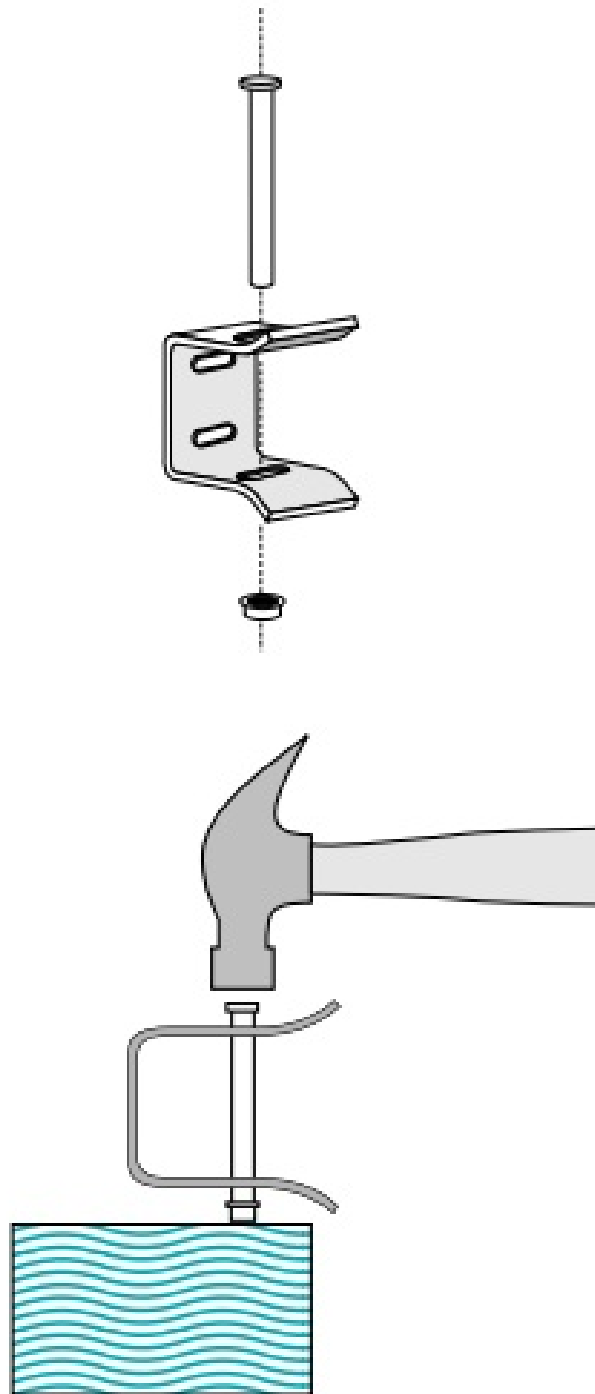
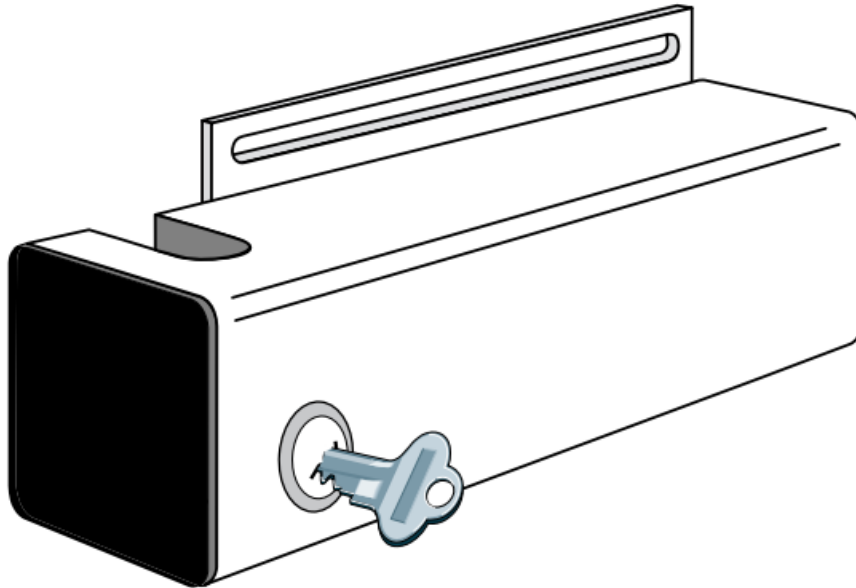


Illustration G



Manual Lock Release:



The GTO Automatic Gate Lock is **keyed for manual release**.

Should the electronic release be disabled for any reason, simply use the key to manually open the lock?

Troubleshooting

If the lock hangs up and does not latch properly try the following steps before contacting Technical Support:

- Reset closed position limit so the gate is snug against stop plate
- Lubricate latch with silicone spray to help latch to operate freely
- Check alignment of the lock by using the key to hold the latch open while operating the gate opener
- Make sure you have a positive stop installed on the **dual** gate system (see page 5).

If the lock still does not operate properly contact the GTO Technical Support Department:

Hours: MON – FRI 8:00AM – 7:00PM (ET)

[800-543-1236](tel:800-543-1236)

[850-575-4144](tel:850-575-4144)

IMPORTANT: For optimum service and safety, find the ideal obstruction sensing setting for your gate opener.

Depending on the weight of your gate, the ideal setting will be just enough to move your gate without self-obstruction (stopping or reversing due to its own weight), yet sensitive enough to reverse and stop when it meets with an obstruction such as a car. See the GTO Installation Manual for information on **obstruction settings**.

NOTE: Be sure your gate moves freely on its hinges without binding or dragging.

Limited One Year Warranty:

GTO Access Systems, LLC's, gate opener accessories are warranted by the manufacturer against defects in workmanship for a period of one (1) year from the date of purchase, provided recommended installation procedures have been followed.

In the case of product failure due to defective material or manufacturer workmanship within the one (1) year warranty period, the accessory will be repaired or replaced (at the manufacturer's option) at no charge to the customer, if returned freight prepaid to GTO, 3121 Hartsfield Rd., Tallahassee, FL 32303.

IMPORTANT: Call [800-543-1236](tel:800-543-1236) for a Return Goods Authorization (RGA) number before returning the accessory to the factory. Products received at the factory without an RGA will not be accepted. Replacement or repaired parts are covered by this warranty for the remainder of the one (1) year warranty period or six (6) months, whichever is greater. GTO will pay the shipping costs (equivalent to United Parcel Service ground rate) for items repaired under warranty.

The manufacturer will not be responsible for any charges or damages incurred in the removal of the defective

parts for repair, or for the reinstallation of those parts after repair. This warranty shall be considered void if damage to the product(s) was due to improper installation or use, connection to an improper power source, or if the damage was caused by lightning, wind, fire, flood, insects, or another natural agent.

After the one (1) year warranty period, GTO or one of its authorized service centers will make any necessary repairs for a nominal fee. Call GTO at [800-543-1236](tel:800-543-1236) for more information. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. This warranty is in lieu of all other warranties, expressed or implied. NOTE: Verification of the warranty period requires copies of receipts or other proof of purchase. Please retain those records.



GTO Access Systems, LLC

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For online Technical Support visit the Online Troubleshooter Wizard 24 hrs/day 7 days/week at
<http://support.gtoinc.com/support/troubleshooter.aspx> and open a Tech Ticket

Technical Support Hours: MON – FRI 8:00 AM – 7:00 PM (ET)

1-[800-543-1236](tel:800-543-1236)

www.mightymule.com


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Documents / Resources

	<p>MIGHTY MULE FM143-SL Automatic Gate Lock [pdf] Installation Guide FM143-SL, Automatic Gate Lock, FM143-SL Automatic Gate Lock</p>
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References

-  [Nice North America - Home Automation Systems](#)
-  [Find Smart Gate Opener Solutions - Automatic Electric Gate Openers – Mighty Mule](#)
- [User Manual](#)

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