Installation Manual for the





A WARNING! A

This equipment is similar to other gate or door equipment and meets or exceeds Underwriters Laboratory Standard 325 (UL 325). However, gate equipment has hazards associated with its use and therefore by installing this product the installer and user accept full responsibility for following and noting the installation and safety instructions. Failure to follow installation and safety instructions can result in hazards developing due to improper assembly. You agree to properly install this product and that if you fail to do so GTO, Inc. shall in no event be liable for direct, indirect, incidental, special or consequential damages or loss of profits whether based in contract tort or any other legal theory during the course of the warranty or at any time thereafter. The installer and/or user agree to assume responsibility for all liability and use of this product releasing GTO, Inc. from any and all liability. If you are not in agreement with this disclaimer or do not feel capable of properly following all installation and safety instructions you may return this product for full replacement value.

READ ALL INSTRUCTIONS CAREFULLY AND COMPLETELY before attempting to install and use this automatic gate opener. This gate opener produces a high level of force. Stay clear of the unit while it is operating and exercise caution at all times.

All automatic gate openers are intended for use on vehicular gates only.

This product meets and exceeds the requirements of UL 325, the standard which regulates gate opener safety, as established and made effective March 1, 2000, by Underwriters Laboratories Inc.



For more information on Mighty Mule's full line of Automatic Gate Openers and Access Controls visit our website at www.mightymule.com

GTO Sales: (800) 543-GATE (4283) or (850) 575-0176 • Fax (850) 575-8912 or GTO Technical Service (800) 543-1236 or (850) 575-4144

For 24 hour/day, 7 day/week Technical Service visit http://support.gtoinc.com/support/troubleshooter.aspx

The Mighty Mule® Gate Opener is intended for use with vehicular swing gates. The opener can be used in Class I, Class II and Class III applications.

VEHICULAR GATE OPENER CLASS CATEGORIES

Residential Vehicular Gate Opener-Class I: A vehicular gate opener (or system) intended for use in a home of one-to-four single family dwelling, or a garage or parking area associated therewith.

Commercial/General Access Vehicular Gate Opener-Class II: A vehicular gate opener (or system) intended for use in a commercial location or building such as a multifamily housing unit (five or more single family units), hotel, garages, retail store, or other building servicing the general public.

Industrial/Limited Access Vehicular Gate Opener–Class III: A vehicular gate opener (or system) intended for use in an industrial location or building such as a factory or loading dock area or other locations not intended to service the general public.

Conversion Chart								
Converting Metric Units to English Equivalents When You Know Multiply By To Find Symbol								
centimeters	0.3937	inches	in. (or ")					
meters	3.2808	feet	ft. (or ')					
kilograms	2.2046	pounds	lb. (or #)					
Converting English	Converting English Units to Metric Equivalents							
When You Know	When You Know Multiply By To Find Symbo							
inches	2.5400	centimeters	cm					
feet	0.3048	meters	m					
pounds	0.4535	kilograms	kg					
<i>Converting Tempe</i> deg. Celsius deg. Fahrenheit	e rature (ºC x 1.8) + 32 (ºF-32) ÷ 1.8	deg. Fahrenheit deg. Celsius	ºF ºC					

FOR YOUR RECORDS

Please record the product serial number (located on the rear of opener arm), and the date and place of purchase in the spaces provided below. Refer to this information when calling GTO for service or assistance with your automatic gate opener.

Serial Number _____ Date of Purchase _____

Place of Purchase

Remember to keep all receipts for proof of purchase.

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PLEASE READ THIS FIRST!

Thank you for purchasing a **Mighty Mule® 200 E-Z Gate Opener**—GTO's "do-it-yourself" automatic gate opener! When correctly installed and properly used, your **Mighty Mule® E-Z Gate Opener** will give you many years of reliable service. Please read the following information and watch the enclosed video to ensure you have the correct system for your particular needs. Furthermore, this manual and the video will enable you to properly install your **Mighty Mule® E-Z Gate Opener**.

The **Mighty Mule® 200 E-Z Gate Opener** is designed for installation on a **pull-to-open single leaf gate** (gates that open *into* the property). The gate must not exceed 12 feet and 300 pounds (*please see Technical Specifications on page 10*). The **Mighty Mule® E-Z Gate Opener** can be used on vinyl, aluminum, chain link, farm tube, and wrought iron gates. Use on solid gates is not recommended. Solid surface gates have a high resistance to the wind.

Use on solid (surface) gates is not recommended. Solid surface gates have a high resistance to the wind. If the wind is strong enough, the opener will obstruct and stop, blow fuses, or may damage the equipment.

The **Mighty Mule® E-Z Gate Opener** accommodates extra transmitters, digital keypads, solar panels, push buttons, automatic gate locks, and other access control products. These optional accessories (see *the enclosed Mighty Mule® Accessory Catalog*) are available at most stores. Your store should be able to special order any accessory not in stock. If your store cannot special order accessories, please call the GTO Sales Department (800-543-GATE).

The **Mighty Mule® E-Z Gate Opener** features **adjustable obstruction sensing.** This safety feature makes the gate stop and reverse direction within 2 seconds when it comes in contact with an obstruction. **MIN** is the factory setting; meaning the gate will exert the minimum force on an obstruction before it stops and reverses direction.

The **Mighty Mule® E-Z Gate Opener** also has an **adjustable auto-close feature.** After the gate reaches the fully open position, it can be set to remain open up to 120 seconds before automatically closing. Pressing the transmitter button at any time after the gate opens fully will cause it to close immediately. **OFF** is the factory setting; meaning the gate will stay open until you press the transmitter (or keypad, etc.) again.

PLEASE NOTE—If your application requires any of the following:

Push-to-open; Column Mounting; Slide gates; Heavy duty or commercial uses; Professional installation;

please call GTO at (800) 543-GATE [4283] or (850) 575-0176 for information about our GTO/PRO professional line of gate openers and accessories. Our Sales Department will be glad to give you the name and phone number of a GTO/PRO dealer near you.

BEFORE YOU BEGIN TO INSTALL YOUR AUTOMATIC GATE OPENER: watch the enclosed video and read these instructions carefully and completely to become familiar with all parts and installation steps. The video is only designed as an overview of the installation procedure. You must read the installation manual for detailed instructions on gate opener safety and proper use of the gate opener.

Because automatic gate openers produce high levels of force, consumers need to know the potential hazards associated with improperly designed, installed, and maintained automated gate opener systems. *Keep in mind that the gate opener is just one component of the total gate operating system.* Each component must work in unison to provide the consumer with convenience, security, and safety.

This manual contains various safety precautions and warnings for the consumer. Because there are many possible applications of the gate opener, the safety precautions and warnings contained in this manual cannot be completely exhaustive in nature. They do, however, provide an overview of the safe design, installation, and use of this product. CAREFULLY READ AND FOLLOW ALL SAFETY PRECAUTIONS, WARNINGS, AND INSTALLATION INSTRUCTIONS TO ENSURE THE SAFE SYSTEM DESIGN, INSTALLATION, AND USE OF THIS PRODUCT.

Precautions and warnings in this manual are identified with this warning symbol. The symbol identifies conditions that can result in damage to the opener or its components, serious injury, or death.

Because GTO automatic gate openers are only part of the total gate operating system, it is the responsibility of the consumer to ensure that the total system is safe for its intended use.

To Manually Open and Close the Gate, Follow the Procedure Below:

A CAUTION: The gate will move freely and uncontrolled when the gate opener is removed from the gate. ONLY disconnect the opener when the opener power switch is OFF and the gate is NOT moving.

Disconnecting the Opener

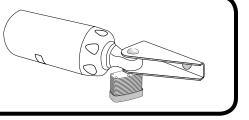
- 1. Turn opener power switch OFF.
- 2. Remove hairpin clip, clevis pin, and bushing from the front mounting point.
- 3. Remove the opener from the mount. The gate can be opened and closed manually when the opener is disconnected.

IMPORTANT: NEVER allow opener arm to hang by the front mount - it will break from the arm weight.

CAUTION: Because the Mighty Mule gate opener is battery powered, disconnect the opener ONLY when the power switch on the opener is turned OFF. Unplugging the transformer does not turn power to the opener OFF.

Front Mount Clevis Pin Pin Clevis Pin Gate Bracket Opener when the gging the F.

NOTE: Substitute a **Pin Lock (FM133)** for the clevis pin on the front mount only of the gate opener to prevent unauthorized removal of the opener from the gate (see Accessory Catalog).

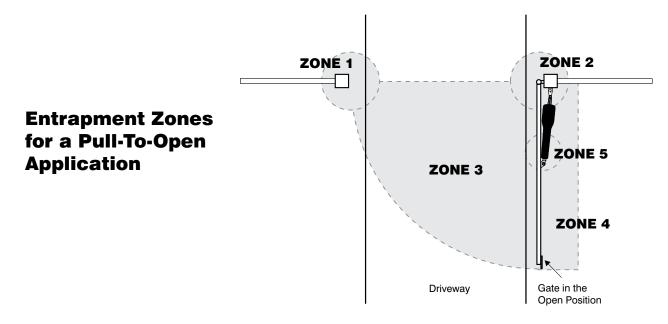


For The Consumer WARNING: To reduce the risk of injury or death:

- 1. **READ AND FOLLOW ALL INSTRUCTIONS.** Failure to meet the requirements set forth in the instruction manual could cause severe injury and/or death, for which the manufacturer cannot be held responsible.
- 2. When designing a system that will be entered from a highway or main thoroughfare, make sure the system is placed far enough from the road to prevent traffic congestion.
- 3. The gate must be installed in a location that provides adequate clearance between it and adjacent structures when opening and closing to reduce the risk of entrapment. Swinging gates **must not** open into public access areas.
- 4. The gate and gate opener installation **must comply with any applicable local codes.**

I. Before Installation

- 1. Verify this opener is proper for the type and size of gate, its frequency of use and the proper class rating.
- 2. Make sure the gate has been properly installed and swings freely in both directions. Repair or replace all worn or damaged gate hardware prior to installation. A freely moving gate will require less force to operate and will enhance the performance of the opener and safety devices used with the system.
- 3. Review the operation of the system to become familiar with its safety features. Understand how to disconnect the opener for manual gate operation (see page 1).
- 4. This gate opener is intended for **vehicular gates ONLY.** A separate entrance or gate must be installed for pedestrian use (see page 6).
- 5. Always keep people and objects away from the gate and its area of travel. NO ONE SHOULD CROSS THE PATH OF A MOVING GATE.
- 6. Pay close attention to the diagram below and be aware of these areas at all times.

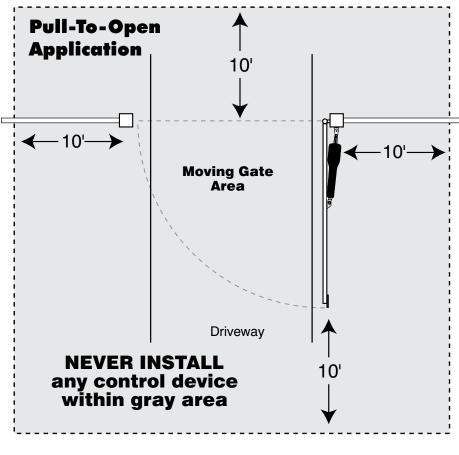


Entrapment Zones for a proper Pull-To-Open installation:

- Zone 1 leading edge of the gate and the fence post.
- Zone 2 between the gate and the gate post.
- Zone 3 the path of the gate.
- Zone 4 the space between the gate in the open position and any object such as a wall, fence, tree, etc.
- Zone 5 pinch points between the opener and gate.

II. During Installation

- 1. Install the gate opener on the inside of the property and fence line. **DO NOT** install an opener on the outside of the gate where the public has access to it.
- 2. Be careful with moving parts and avoid close proximity to areas where fingers or hands could be pinched.
- 3. Devices such as contact sensors (safety edges) and non contact sensors (photo beams) provide additional protection against entrapment.
- 4. If push buttons or key switches are installed, they should be within sight of the gate, yet located at least 10 feet from any moving part of the gate (see diagram below). Never install any control device where a user will be tempted to reach through the gate to activate the gate opener.
- 5. Do not activate your gate opener unless you can see it and can determine that its area of travel is clear of people, pets, or other obstructions. Watch the gate through its entire movement.
- 6. Secure outdoor or easily accessed gate opener controls in order to prohibit unauthorized use of the gate.



III. After Installation

- 1. Attach the **warning signs** *(included)* to each side of the gate to alert the public of automatic gate operation. It is *your responsibility* to post warning signs on both sides of your gate. If any of these signs or warning decals become damaged, illegible or missing, replace them immediately. Contact GTO for free replacements.
- 2. The gate is automatic and could move at any time, posing a serious risk of entrapment. No one should be in contact with an activated gate when it is moving or stationary.
- 3. Do not attempt to drive into the gate area while the gate is moving; wait until the gate comes to a complete stop.
- 4. Do not attempt to "beat the gate" while the gate is closing. This is extremely dangerous.
- 5. Do not allow children or pets near your gate. **Never let children operate or play with gate controls.** Keep the remote controls away from children and unauthorized users; store controls where children and unauthorized users do not have access to them.
- 6. **KEEP GATE AND GATE OPENER PROPERLY MAINTAINED.** Always turn power to opener OFF before performing any maintenance. Regularly grease the gate hinges. Clean the push-pull tube with a soft, dry cloth and apply silicone spray to it at least once per month.
- 7. To operate this equipment safely, YOU must know how to disconnect the opener for manual gate operation *(see page 1).* If you have read the instructions and still do not understand how to disconnect the opener, contact the GTO Service Department.
- 8. Disconnect the opener **ONLY** when the power is **TURNED OFF** and the gate is **NOT** moving.
- 9. Make arrangements with local fire and law enforcement for emergency access.
- 10. Distribute and discuss copies of the **IMPORTANT SAFETY INSTRUCTIONS** section of this manual with all persons authorized to use your gate.
- 11. IMPORTANT: Save these safety instructions. Make sure everyone who is using or will be around the gate and gate opener are aware of the dangers associated with automated gates. In the event you sell the property with the gate opener or sell the gate opener, provide a copy of these safety instructions to the new owner.

Should you lose or misplace this manual, a copy can be obtained by downloading one from the Mighty Mule® web site (www.mightymule. com), by contacting GTO, Inc., at 3121 Hartsfield Road, Tallahassee, Florida 32303 or by calling 1-800-543-4283 and requesting a duplicate copy. One will be provided to you free of charge.

Secondary Means of Protection Against Entrapment

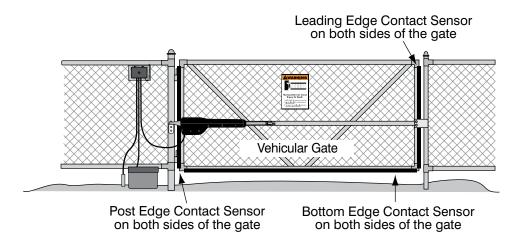
As specified by Gate Opener Safety Standard, UL 325 (30A.1.1), automatic gate openers shall have an inherent entrapment sensing system, and shall have *provisions for, or be supplied with,* at least one independent secondary means to protect against entrapment. The Mighty Mule® utilizes **Type A**, an inherent (i.e., built-in) entrapment sensing system as the *primary* type of entrapment protection. Also, the Mighty Mule® has *provisions for* the connection of *Type B2* protection to be used as the *secondary* type of entrapment protection, if desired.

1. For gate openers utilizing a contact sensor (e.g., safety edge sensor- Type B2) in accordance with UL 325 (51.8.4 [i]):

A. One or more contact sensors shall be located at the leading edge, bottom edge, and post edge, both inside and outside of a vehicular swing gate system.

B. A hard wired contact sensor shall be located and its wiring arranged so that the communication between the sensor and the gate opener is not subjected to mechanical damage.

C. A wireless contact sensor such as one that transmits radio frequency (RF) signals to the gate opener for entrapment protection functions shall be located where the transmission of the signals are not obstructed or impeded by building structures, natural landscaping or similar obstruction. A wireless contact sensor shall function under the intended end-use conditions.

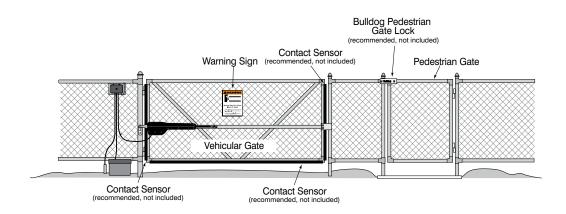


ENTRAPMENT ALARM (UL 325; 30A.1.1A)

The Mighty Mule® E-Z Gate Opener is designed to stop and reverse within 2 seconds when the gate comes in contact with an obstruction. Additionally, these openers are equipped with an **audio entrapment alarm** which will activate if the unit obstructs *twice* while opening or closing. This alarm will sound for a period of 5 minutes, or until the opener receives an intended signal from a hard wired entry/exit source (e.g. push button control or keypad) and the gate returns to a fully open or fully closed position. Turning the power switch on the control box OFF and back ON will also deactivate the alarm. Wireless controls such as transmitters and wireless keypads will not deactivate the alarm.

Required Safety Precautions for Gates Install Warning Signs

Warning signs alert people of automatic gate operation and are **required** when installing the Mighty Mule® E-Z Gate Opener. Furthermore, a walk-through gate must be installed if pedestrian traffic is expected near the vehicular gate. We recommend using the **GTO Bulldog Pedestrian Gate Lock** (*Call the GTO Sales Department*) for controlled access.



Entrapment Protection

GTO's inherent obstruction settings, even when properly adjusted, **may not be sensitive enough to prevent bodily injury in some circumstances.** For this reason, safety devices such as safety edge sensors (or photoelectric sensors), which stop and reverse gate direction upon sensing an obstruction, are suggested for enhanced protection against entrapment.

Warning Signs

The warning signs (at right) must be installed on both sides of the gate (see page 7 for details).





- 2. Do not allow children to operate gate or play in gate area.
- 3. This gate is for vehicles only. Pedestrians must use a separate entrance.

Warning signs (2 enclosed) to be installed on each side of the gate (3–5 feet above the bottom of the gate)

These warning labels should be found at the locations specified below. If any are missing, immediately contact GTO for replacements.



Product identification label (1) installed under rear mount on arm



TO MANUALLY OPEN AND CLOSE THE GATE 1. Turn opener power switch OFF. 2. Disconnect front or rear mount from mounting bracket. 3. Pull opener away from mounting bracket and move gate. Disconnect opener ONLY when the power switch is OFF and the gate is not moving.

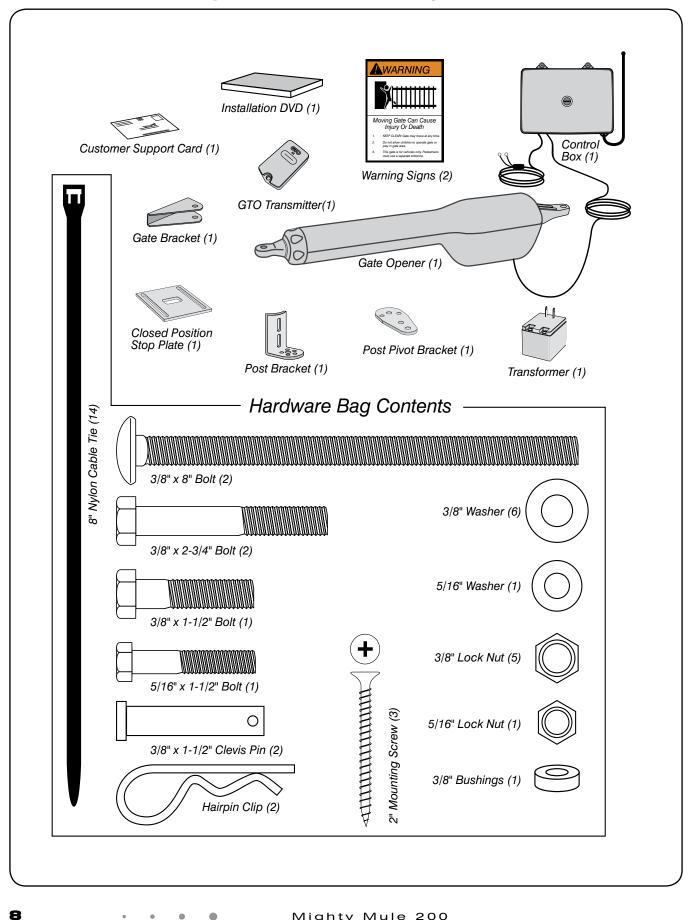
Control box label (1) installed on front of the control box

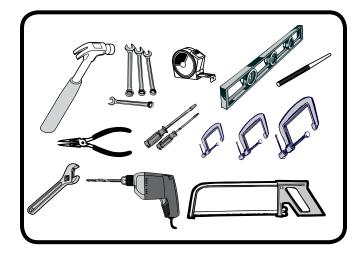


Logo and warning labels (2) installed on each side of opener housing

• • •

Parts List - Opener and Mounting Hardware





Tools Needed

- Power Drill
- Open End Wrenches 1/2", and 9/16"
- Adjustable Wrench
- 3/8" Drill Bit
- Hacksaw or Heavy Duty Bolt Cutters
- Small (Flat Bladed) Screwdriver
- Phillips Screwdriver/ Large
- Tape Measure
- Level
- Wire Strippers
- C-Clamps small, medium, and large
- Center Punch
- Extra person will be helpful
- Hammer (for center punch)

YOU MAY ALSO NEED THESE ITEMS BEFORE YOU BEGIN THE INSTALLATION (Some of these items can be found in the Accessory Catalog page 34):

- Low voltage wire (RB509) will be needed to run from the transformer to the opener control board; length depends upon the distance between the transformer power supply and the opener arm. See Powering Options: Transformer or Solar on page 19, and the Accessory Catalog.
- If your gate is more than 1000' away from AC power source you will need to use at least one **Mighty Mule® 5 watt Solar Panel** (FM121) (not included) to charge the 12 Volt automotive or marine type battery (not included). See the *Accessory Catalog*.
- If your fence post is made of wood and is less than 6" in diameter or 6" square, see page 13.
- PVC conduit.
- If you have thin walled tube or panel gates, see **Recommended Reinforcement Examples** on page 13.
- Depending on the type of gate, a horizontal cross member or mounting plate may be needed to mount the front of the opener and gate bracket to the gate. See page 11 and page 13.
- Surge protection for transformer.
- Some types of installations require U-Bolts for closed position bracket.
- Some installations may require muffler clamps for the gate bracket. (See Page 13)

IMPORTANT:

A 12V AUTOMOTIVE OR DEEP CYCLE MARINE BATTERY IS REQUIRED TO OPERATE THE GATE OPENER.

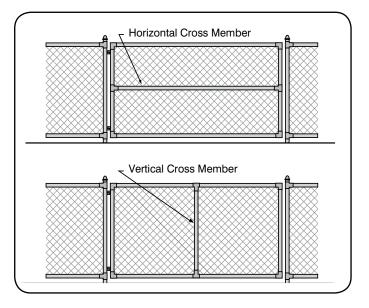
Technical Specifications

MIGHTY MULE® 200 E-Z GATE OPENER						
DRIVE						
 Low friction screw drive (linear actuator) rated for -5 °F to +160 °F (-20 °C to +71 °C). Powered by a 12 V motor with integral case hardened steel gear reducer. Motor speed reduced to 260 rpm. Generates 520 inch lb. of torque at 12 V. Maximum opening arc of 110°. Approximate opening time (90°): 18 seconds, depending on weight of gate. 						
POWER						
 The system is powered by a 12 Vdc automotive or marine battery. Battery charge is maintained by a 120 Vac, 18 Vac output transformer [rectified to 14.5 Vdc (40 VA) through the GTO control board] or by optional GTO Solar Panels [the panel should generate minimum of 5 W at 300 mA]. A diode on the control board prevents battery discharge. IMPORTANT: Never use both transformer and solar panel - this will damage the battery and control board. One (1) blade-style fuse is rated for 15 A. NOTE: The transformer should not be directly connected to any battery. Do not replace fuses with higher ampere rated fuses; doing so will void your warranty and may damage your control board. 						
CONTROL						
 GTO microprocessor-based control board is set for single leaf, pull-to-open gate installations. Control board has temperature compensated circuits. A circuit on the control board regulates charging. "Sleep draw" is 15 mA; "active draw" is 2 to 5 A. Auto-memorization of digital transmitter code. GTO RF receiver tuned to 318 MHz. Opener length with push-pull tube fully retracted is 26³/s", mounting point to mounting point. Maximum stroke is 13". Adjustable auto-close timer (OFF to 120 s), and obstruction sensitivity. Power terminal block accommodates a transformer or solar panels. Accessory terminal block fully compatible with all Mighty Mule access controls. Control board allows connection of safety edge sensors and photoelectric sensors. Audio entrapment alarm sounds if unit encounters an obstruction twice while opening or closing. 						
• The Gate Capacity Chart shows approximate cycles, per day, you can expect from the Mighty Mule 200 Automatic Gate Opener when powered with a transformer. Actual cycles may vary slightly depending upon the type and condition of gate and installation.						
Mighty Mule 200 Gate Capacity /Cycle Chart Estimated number of daily cycles, based on use with a transformer. Number of Cycles Per Day tig 300 lbs. 77 72 67 62 tig 150 lbs. 82 77 72 67 tig 100 lbs. 87 82 77 72 67 tig 50 lbs. 92 87 82 77 72 67 Gate Length						
NOTE: BALL BEARING HINGES SHOULD BE USED ON ALL GATES WEIGHING OVER 250 LB. To determine the number of cycles the gate opener will perform using solar panels, please see the specifications listed on <i>page 18</i> or call (800) 543-1236 or (850) 575-4144 for more information. * An operation cycle is one full opening and closing of the gate.						

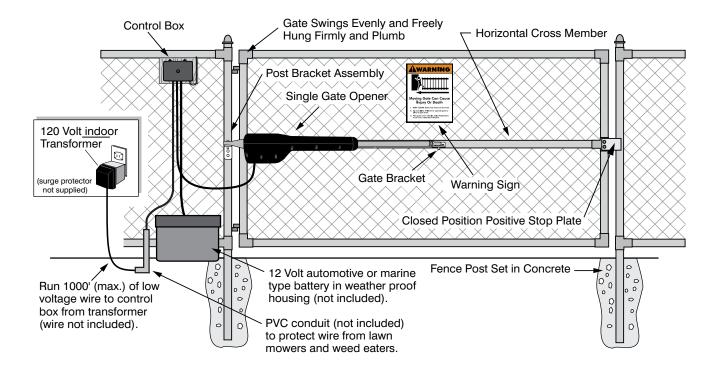
Preparation of the Gate

The gate **must** be plumb, level, and swing freely on its hinges. Wheels must not be attached to the gate. The gate must move throughout its arc **without binding or dragging on the ground.** *Note that gates over 250 lb.. should have ball bearing hinges with grease fittings.*

The fence post should be no larger than 6" in diameter and must be secured in the ground with concrete so it will minimize twist or flex when the opener is activated. We recommend you position the opener near the **centerline** of the gate to keep the gate from twisting and flexing and to avoid backsplash from rain water. The addition of a **horizontal or vertical cross member** (if one is not already in place) to provide a stable area for mounting the gate bracket is also important.



Installation Overview

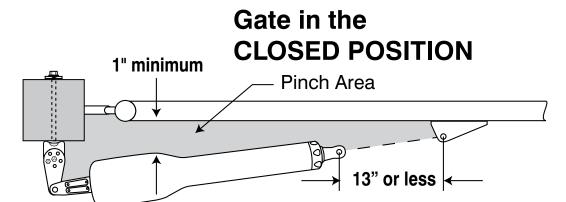


The diagrams shown below are examples of an installation on a chain link fence.

Installation Overview (continued)

IMPORTANT: To achieve optimum leverage for the gate opener and ensure long trouble free service, the gate opener needs to be installed within the following perameters.

The diagram below shows the optium position for gate opener arm in relation to the gate in the open and close positions.



Be sure the position of the gate opener and brackets allows for 1 inch of clearance between the gate and the opener in both the open and closed position, at the same time maintaining a maximum distance of 13 inches from the end of the opener arm to the gate bracket with the gate in the closed position.

Pinch Area

Gate in the OPENED POSITION

1" minimum

←

If the gate post is larger than 6 inches the Post Pivot Bracket can be removed and the center hole of the Post Bracket can be the mounting point for the gate opener. If installing on columns or posts larger than 8 inches refer to page 33 for column installation information.

Installation of Mounting Hardware

The position of the post bracket determines the leverage and efficiency of the opener. The post bracket position also sets the clearance between the opener and gate in the open and closed positions.

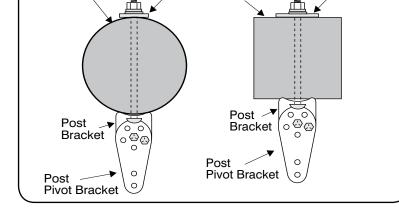
Wooden Post Metal Plate

The curved design of the post bracket works well for installations on round and square fence posts. Because the post bracket carries the entire thrust of the active opener, **bolts that completely penetrate the fence post must be used.**

On wooden posts, place a metal plate or washer *(not supplied)* between the nuts and the fence post to prevent the thrust of the opener from pulling the bolts and washers out of the wood.

NOTE: A fence post smaller than 6" in diameter or 6" square should be made of metal instead of wood so that it will

remain stable while the opener is moving the gate.



Wooden Post

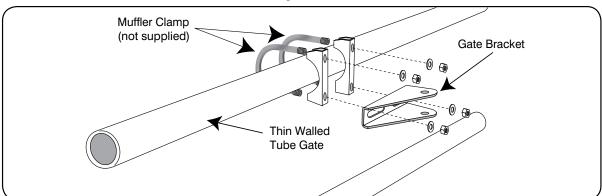
Metal Plate

NOTE: The post pivot bracket may not need to be used on post larger than 6" in diameter.

IMPORTANT:

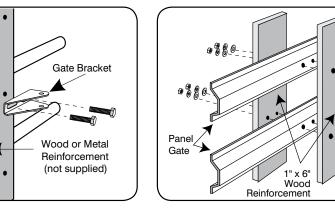
800

We **recommend** using a muffler clamp, wood, or metal (not included) to reinforce thin walled tube gates or wood to reinforce panel gates as shown. These reinforcement methods will prevent damage to the opener and gate when the opener is installed. Additional hardware may be needed depending on the installation.



Muffler Clamp for Gate Bracket

Wood or Metal Reinforcement



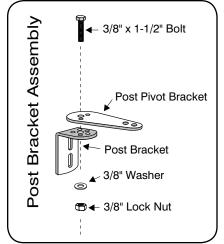
1" x 6" Wood Reinforcement

Gate Bracket

Determining the Mounting Position of the Post Bracket Assembly and the Gate Bracket

Step 1

Insert the $3/8" \times 11/2"$ bolt through the center hole of the post brackets and post pivot bracket as shown. Fasten a 3/8"washer and 3/8" lock nut on the end of the bolt. DO NOT *overtighten* the lock nut because the post pivot bracket will have to be adjusted later.

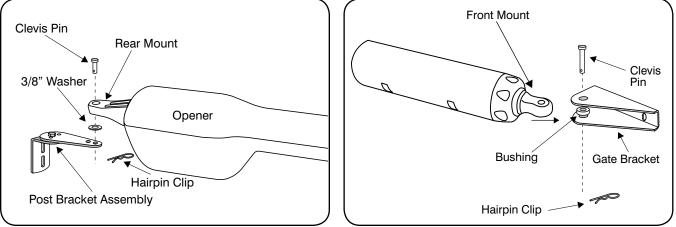


REMINDER:

The following steps are intended for pull-to-open gate installations only.

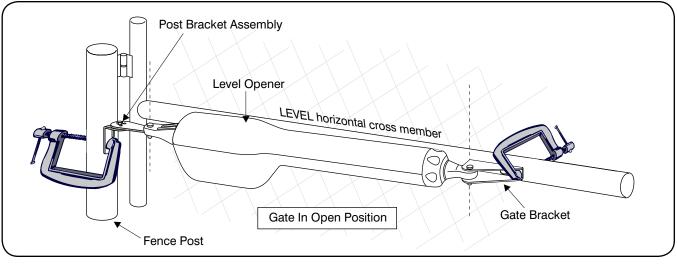
Step 2

Attach post bracket assembly to the rear mount of the opener with a clevis pin and a 3/8" washer. Secure the clevis pin with a hairpin clip. Attach gate bracket to the front mount of the opener with a clevis pin and a 3/8" bushing. Secure the clevis pin with a hairpin clip



Step 3

With the gate in the open position (up to 110^o from its closed position), and the opener fully retracted, adjust the post bracket assembly and gate bracket until the opener is level. While holding the opener level, use C-clamps to **temporarily** keep the post bracket assembly and gate bracket in their respective positions on the fence post and gate.



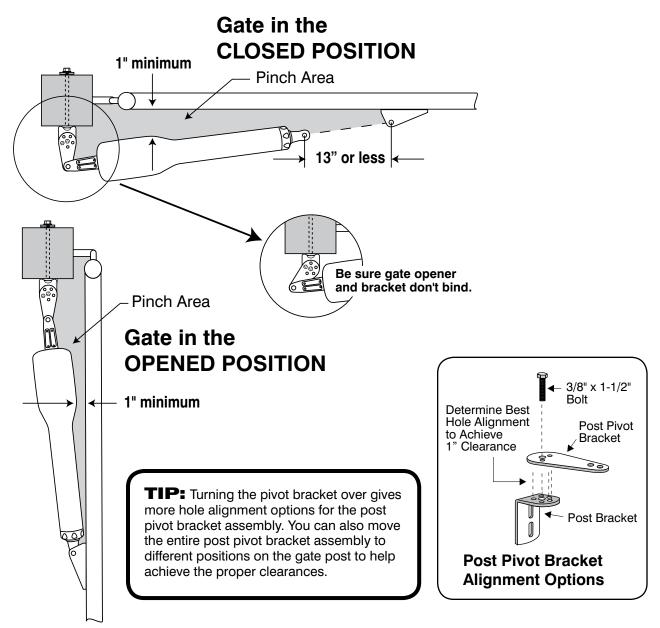
IMPORTANT: While determining the mounting point for the post pivot bracket assembly, be sure that the position allows for minimum 1 inch of clearance between the gate and the opener in both the open and closed positions, as well as maintaining the maximum 13" distance explained in the gate installation overview earlier. This position will give the opener the most efficient leverage point for opening and closing the gate and more importantly provides the least possible pinch area.

Step 4

After verifying that you have the best position for the post pivot bracket in the open position, insert the $5/16" \times 1-1/2"$ bolt through the aligned holes of the post bracket and post pivot bracket to hold it in place. Remove the clevis pin from the front mount and while supporting the gate opener, swing the gate and gate opener to the closed position. With the gate and gate opener in the closed position check the clearance and be sure that the gate opener is not binding at the post pivot bracket.

If you don't have 1 inch of clearance, the gate opener is binding on the post pivot bracket, or you don't have 13' or less from the front mount to the gate bracket in the closed position, remove the 5/16" x 1-1/2" bolt and readjust the pivot bracket until you can achieve these important clearances and distance.

With the post pivot bracket in the optimum position for clearance and freedom of movement, reattach the opener to the gate bracket in the open position and recheck the gate opener level and make sure the brackets are clamped securely.



Installing the Post Bracket Assembly and Gate Bracket

Step 5

Mark reference points for bolt holes on the fence post through middle of bracket slots. Marking reference points in this manner allows room for adjustment when mounting the post bracket assembly and gate bracket. After marking your reference points, remove the opener and brackets from the fence and gate.

Step 6

Drill ³/8" holes into fence post as marked.

Step 7

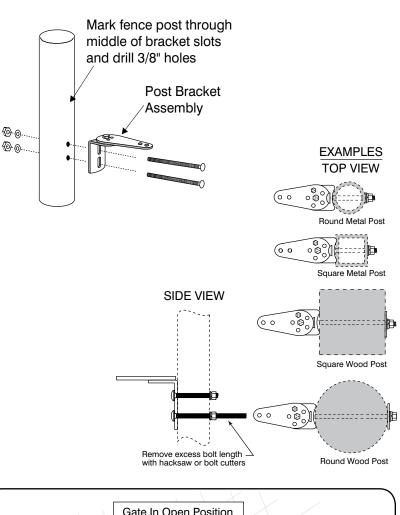
Fasten post bracket assembly to the fence post using (2) $^{3}/8" \times 8"$ bolts, washers and lock nuts (*provided*). Remove excess bolt length extending beyond the tightened nuts with a hacksaw or bolt cutters.

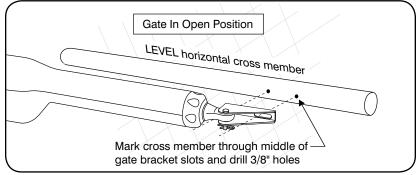
NOTE: In cases where the fence post has a diameter larger than 6", **threaded rods or carriage bolts longer than 8**" (not supplied) must be used.

Step 8

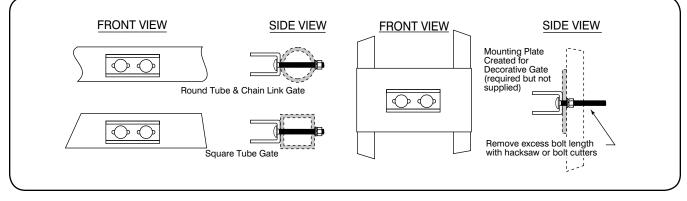
Mark reference points for bolt holes on the gate cross member through middle of gate bracket slots. Drill ³/8" holes into the gate cross member as marked.

Mount gate bracket using (2) $^{3}/8"$ x 2-3/4" bolts, washers, and lock nuts (*provided*). Cut off excess bolt length extending beyond the tightened nuts.



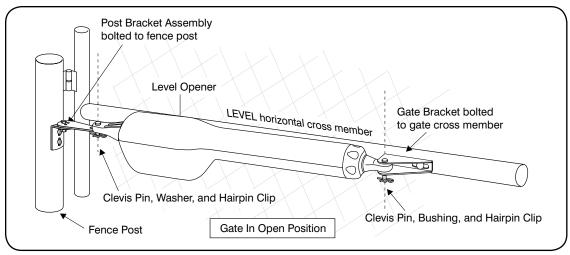


Gate Bracket Mounting Examples



Step 9

Attach the opener to the securely bolted post bracket assembly and gate bracket using clevis pins, bushings, and hairpin clips, or optional Pin Locks (see *Accessory Catalog*). Verify that the opener is level and adjust the post bracket assembly if necessary.



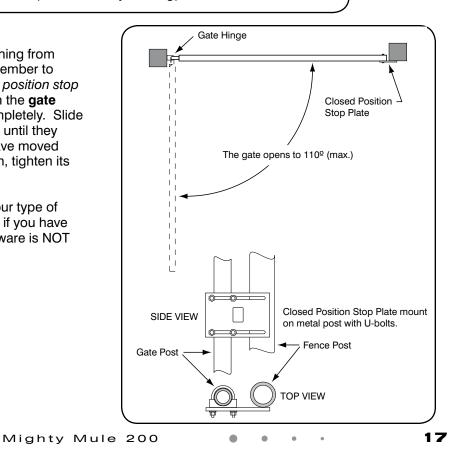
Installation of the Closed Position Stop

The Mighty Mule® Gate Opener firmly holds the gate in the closed position using the positive stop plate. The positive stop helps stabilize the gate leaf in the closed position. To further enhance the stability and security of your gate, install the optional **Mighty Mule® Automatic Gate Lock** (see Accessory Catalog).

Step 10

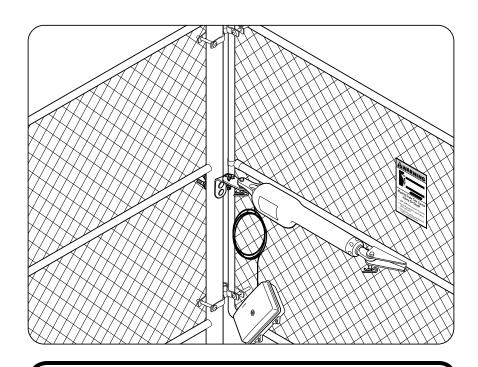
Remove hairpin, clevis pin, and bushing from front mount and close the gate (remember to support opener). Fasten the *closed position stop plate* to the end of the gate frame on the **gate centerline**, but *do not* tighten it completely. Slide the stop plate toward the fence post until they touch (see *illustration*). Once you have moved the stop plate to the correct position, tighten its hardware completely.

Use the appropriate hardware for your type of gate (use U-bolts or a muffler clamp if you have a tube or chain link gate). This hardware is NOT provided.



Step 11

Return the gate to the open position and reconnect the gate opener front mount to the gate bracket using the bushing, clevis pin and hairpin clip. Before mounting the control box check the checklist below to be sure that you have completed the important installation steps.

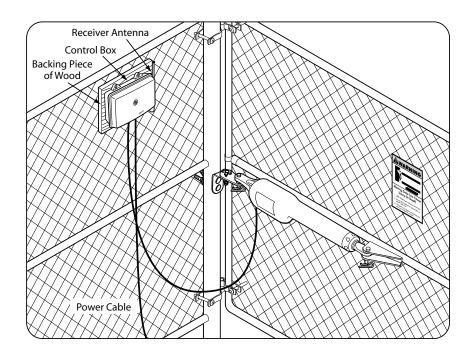


CHECK LIST

- The gate is plumb, level, and swings smoothly on its hinges.
- A plate or support was added for the gate bracket (if necessary).
- The opener is level and mounted on the centerline of the gate.
- The closed position stop plate is installed in place.

Mounting the Control Box

- Unravel the coiled up power cable attached to the control box and opener.
- Mount control box at a location that achieves optimal receiver/transmitter range.
- The top of the fence is an acceptable location for mounting the control box.
- If necessary, attach a backing piece of wood when mounting the control box to a metal fence.
- Leave enough slack in the cable for gate operator movement.



Mighty Mule 200

IMPORTANT

- The Mighty Mule 200 is designed and intended for use with a 12 Volt automotive or marine type battery. The battery must be placed inside a weatherproof case and located within 6 feet of the opener arm. The 8 foot harness supplied connects the battery to the opener arm.
- The battery charge is maintained by the 18 Volt transformer included **Or** by using optional solar panel(s). The transformer **Or** solar panel is connected to the opener arm control board using low voltage, 16 gauge, dual conductor, multi-stranded, direct burial wire (RB509) (see the Accessory Catalog).
- All low voltage wire used with the Mighty Mule® Gate Opener must be 16 gauge dual conductor, multi-stranded, direct burial wire (see page 22 and the Accessory Catalog). Do not run more than 1000 feet of wire.
- The transformer is designed and intended for <u>indoor</u> use. If the transformer can be plugged only into an outside electrical outlet, a weatherproof cover or housing (available at local electrical supply stores) **must** be used.
- If your gate is more than 1000 ft. from an ac power source, you will need to use at least one 5 watt Solar Panel to charge the battery (see Accessory Catalog). Refer to the Solar Panels and Gate Activity chart below.

NEVER USE TRANSFORMER AND SOLAR PANEL(S) AT THE SAME TIME – it will damage the control board –

Solar Panel and Gate Activity Chart

The table and map illustrate the maximum number of gate cycles to expect per day in a particular area when using from 5

to 30 watts of solar charging power. (see Accessory Catalog). The figures shown are for winter (minimum sunlight) and do not account for the use of any accessory items.

Accessories connected to your system will draw additional power from the battery and will require additional solar panels.

	Single Gate Winter Ratings	Zone 1	Zone 2	Zone 3	
12 v single gate (5 watts) solar charger 12 v single gate (10 watts) solar charger		4 8	8 16	13 26	
	12 v single gate (15 watts) solar charger 12 v single gate (20 watts) solar charger	11 14	20 28	30 38	
	12 v single gate (25 watts) solar charger 12 v single gate (30 watts) solar charger	17 20	36 44	46 54	
Zone 3 Zone 3 Zone 3 Zone 3					

Connecting Solar Panel(s)

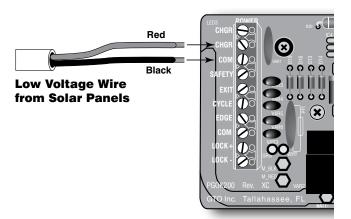
IMPORTANT: Never connect the transformer and a solar panel to the opener control board at the same time. It will damage the control board.

If you are using the transformer included with the Mighty Mule 200 to charge the opener battery, skip this section and go to "CONNECTING BATTERY".

Strip ³/16" off the ends of the low voltage wire from the solar panel and twist tightly. Attach **solar panel RED (+) wire** to the 'CHGR' terminal on the control board and the BLACK (-) wire to the 'COM' terminal on the control board as shown.

Tighten set screws against exposed end of wires. A dab of household petroleum jelly on each terminal will help prevent corrosion.

NOTE: For multiple panels wire the panels in parallel as shown in this diagram.



RED RFD BLACK BLACK attach BLACK to the 'COM' terminal on the control board attach RED to the 'CHGR' terminal on the control board Antenna Wire (\mathbf{X}) Remove the screw and lift the cover off to gain access to the O control board. \cap $\widehat{}$ $^{\prime}o$ Wires from Battery Low Voltage Wire from Solar Panel **ON/OFF Switch** Power Cable from Opener Arm **PVC Pipe**

Solar Panels connect in PARALLEL

Connecting the Battery

Step 1

IMPORTANT: Make sure the power switch on the control box is in the OFF position.

Step 2

Place the 12 Volt automotive or marine type battery and its weatherproof case within 6 feet of the fence post where the opener arm is mounted.

Step 3

Attach the battery wires provided, to the terminals of the battery. Take care to attach the BLACK wire to the NEGATIVE terminal and the RED wire to the POSITIVE terminal. Reverse connection will cause damage to the control board.

Connecting the Transformer

IMPORTANT: Use either transformer or solar panel. DO NOT connect both transformer and solar panels to the opener control board at the same time. It will damage the control board.

Step 1

Make sure the power switch is **OFF** before proceeding to the next step.

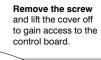
Step 2

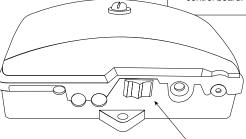
Select the electrical outlet where you will plug the transformer. Measure the distance from this outlet to the control box following the path where the wire will be laid. After you have measured how much wire is needed, cut the wire to the appropriate length.

Step 3

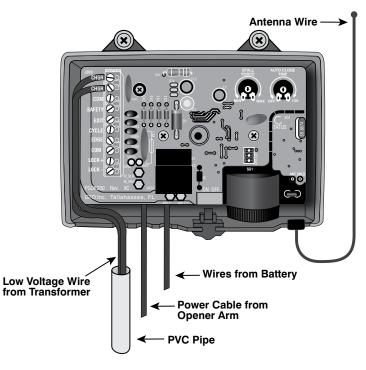
Lay the measured length of low voltage wire in a trench following a path from the selected electrical outlet to the control box. Wires coming up from the ground should be run through PVC conduit to protect them from lawn mower blades, weed eaters, and grazing animals. Be sure to bury the wire laid in the trench.

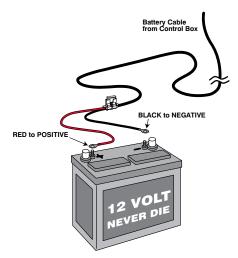
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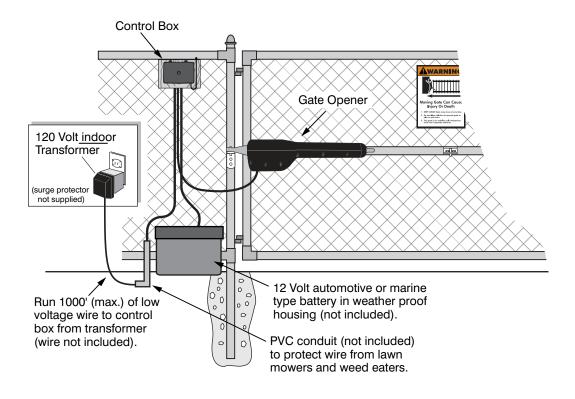




ON/OFF Switch







IMPORTANT INFORMATION ABOUT LOW VOLTAGE WIRE

The only wire acceptable for use with GTO products is 16 gauge multi-stranded, low voltage, PVC sheathed wire. This particular gauge enables the transformer to provide an adequate charge through the control board to the battery at distances up to 1000 ft.

DO NOT use telephone wire or solid core wire. Unlike multi-stranded wire, these types of wire are inadequate for use with your gate opener system.

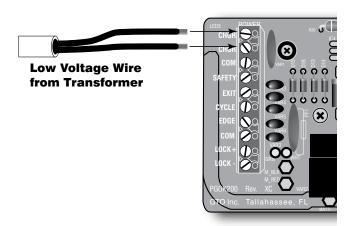
<u>NEVER</u> splice wires together. Splicing permits corrosion and seriously degrades the wire's ability to carry an adequate current.

Step 5

Strip $\overline{3}/16^{"}$ off the ends of the low voltage wire and twist tightly. Attach these ends to the '**CHGR**' terminals located on the terminal block (see *illustration at right*). **Be certain not to let the exposed wires touch each other!**

Insert one transformer wire into a 'CHGR' terminal. Insert the other transformer wire into the remaining 'CHGR' terminal. The transformer wires can be connected to the 'CHGR' terminals regardless of color.

Tighten set screws against exposed end of wires. A dab of household petroleum jelly on each terminal will help prevent corrosion.



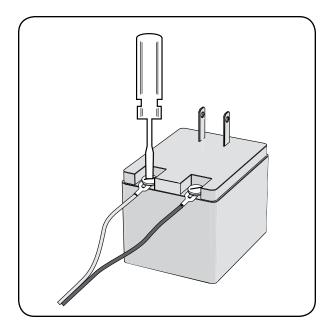
Step 6

At the AC outlet strip 1/2" of insulation from the ends of the low voltage wire. Attach these stripped ends to the transformer terminals.

A dab of household petroleum jelly on each terminal will help prevent corrosion.

We suggest crimping a spade tongue terminal *(not provided)* to the end of each wire before attaching it to the transformer.

Make sure the exposed wires do not touch each other!



Transformer

Step 7

Plug the transformer into the electrical outlet. (Use of a surge protector with the transformer is **strongly** recommended - not included) If electrical outlet is located outdoors, outlet and transformer should be protected by a weatherproof cover.

Setting the Closed Position Limit

Note: Must have a transmitter that operates the gate. If not see 'Setting Your Personal Transmitter Code' on page 26.

Your Mighty Mule 200 has two Limit Settings

- **1. OPEN Limit setting:** (Gate in the OPEN POSITION / FACTORY SET & NOT ADJUSTABLE) The open limit setting is the fully open position.
- 2. CLOSED Limit setting: The CLOSED Limit setting (gate in the CLOSED POSITION) To achieve optimum closed position, you are required to complete the following FIVE STEPS:

Step 1

With the gate in the fully open position (arm fully retracted), slide the ON/OFF switch on the control box to the OFF position. If gate is not open, use the transmitter to put the gate into the fully open position, then slide the ON/OFF switch on the control box to the OFF position.

Step 2

Press and hold the hand held transmitter button while sliding the ON/OFF switch to the ON position. Continue to hold the transmitter's button until the alarm sounds (3-5 seconds). The unit is now in the 'LEARN LIMIT' mode. (In this mode the unit will run only when the transmitter is held down. The gate will stop when the transmitter's button is released. The gate will alternate its running direction each time the button is pressed.)

Step 3

Press and hold the transmitter's button to close the gate. Prepare to release the transmitter's button when the gate reaches the desired closed position. (Note: Use the transmitter to 'fine-tune' the closed position of the gate. Make sure the last running state is in the closing direction). The gate is now at the desired closed position limit.

Step 4

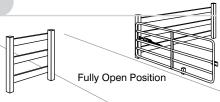
Press & hold the transmitter to run the gate open **uninterrupted** all the way to the full open limit. If the gate stops prior to reaching the open limit position, bring the gate back to the desired closed position and repeat steps 2 and 3. (Note: If the gate stops and reverses while the transmitter is held down, the 'STALL FORCE' adjustment may be set too low. Turn 'STALL FORCE' pot clockwise and repeat steps 2-3)

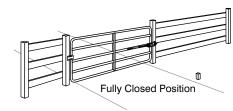
Step 5

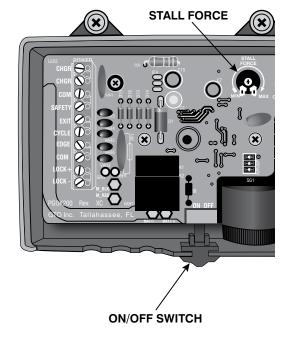
Once the gate reaches the open position limit you will hear a single beep from the alarm confirming that the closed position limit is 'learned'. The unit will automatically exit 'LEARN LIMIT' mode and return to normal operation (momentary press of the transmitter will operate the gate). Run the gate to the closed position and verify that it stops at the desired position.

TESTING YOUR CLOSED LIMIT SETTING:

Press your entry transmitter and allow your gate to close. If CLOSED position is not correct or needs to be changed you will need to repeat steps 1-5.







Stall Force Potentiometer Setting

IMPORTANT: For safety reasons the obstruction setting or **Stall Force** on the Mighty Mule® control board comes from the factory set at **MIN** (minimum). In many gate installations this setting will need to be adjusted to overcome the weight and size of the gates.

The **Stall Force** potentiometer on the control board operates like a volume control on a radio. It controls the obstruction sensitivity (or the amount of force the opener will apply to an obstruction) before it automatically stops and reverses direction for approximately two (2) seconds.

Use a small slotted screwdriver to turn the arrow in the center of the potentiometer. Adjust the sensitivity from the MINIMUM position where the gate operates without obstructing from its own weight or the wind conditions in your area.

NOTE: You may need to increase the stall force in cold weather due to increased resistance from gate hinges.

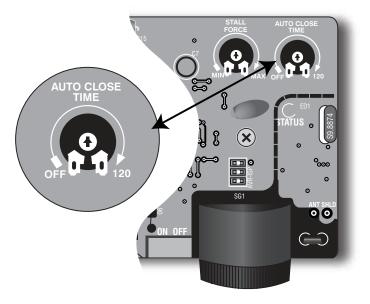
STALL FORCE MIN MAX MIN MAX SCI MIN MAX SC

ALWAYS KEEP **SAFETY** AT THE TOP OF YOUR LIST WHEN ADJUSTING OR SERVICING YOUR AUTOMATIC GATE OPENER!

Setting Auto-Close Time

CLOSE TIME (auto close timer): Determines how long the gate will remain open before it automatically closes. The limits are **OFF** and **3 - 120** seconds. The factory setting is **OFF**.

NOTE: Auto-Close timer is disabled (gate will not automatically close) if gate is not in the open limit.



Setting Your Personal Transmitter Code

All GTO transmitters are set to a standard code at the factory and are ready to operate your Mighty Mule® Gate Opener[®]. For your safety and security, however, we strongly recommend that you replace the factory setting with your own personal code. Follow the directions below:

1. Remove the Transmitter Cover

On the back of the transmitter use a small phillips head screw driver to remove the two screws on the sides of the visor clip and separate the front cover from the transmitter. With the front cover removed, the battery and the DIP switches will be exposed. To set a new code, use a small screwdriver to move the switches.

2. Set the Transmitter DIP Switches

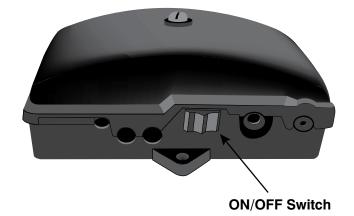
There are nine (9) transmitter DIP switches; each can be placed in three different positions (+, 0, -). **DO NOT** set all the switches in the same position, such as all +, all 0, or all -. Once the DIP switches have been set to a personal code, replace and close the access cover.

WARNING: No other adjustments should be made inside the transmitter.

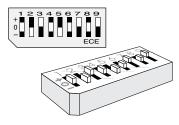
3. "Learn" the New Code to Control Board Memory

- A. Slide the ON/OFF switch to the OFF position.
- B. Press and hold the hand held transmitter button while sliding the ON/OFF switch to the ON position.
- C. Continue to hold the transmitter's button until the alarm sounds (3-5 seconds).
- D. Release the transmitter's button. The new transmitter code is 'learned'.
- E. Verify that the transmitter operates the gate.

NOTE: It is NOT necessary to remove the cover of the control box to 'learn' the new transmitter code.







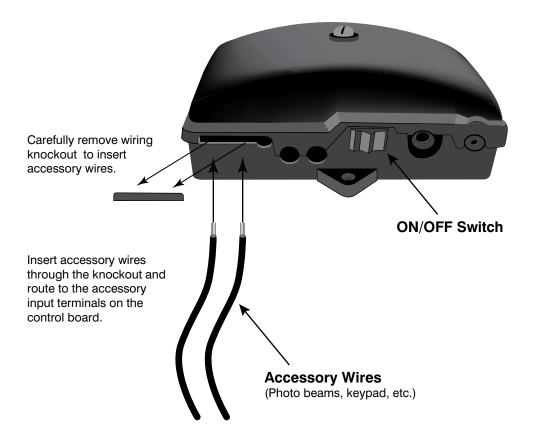
Connecting Additional Safety Devices

Although GTO strongly recommends the use of additional safety devices, we do not endorse any specific brand names. Only use products that are certified and listed to be in compliance with any applicable UL standards (Underwriters Laboratories) and national and regional safety codes.

Call GTO Sales at 1-800-543-4283 for information on compatible products for your specific application.

Make sure the power to the opener is turned off before connecting safety device wiring to the terminal blocks. Unplugging the transformer does not turn power to the opener OFF.

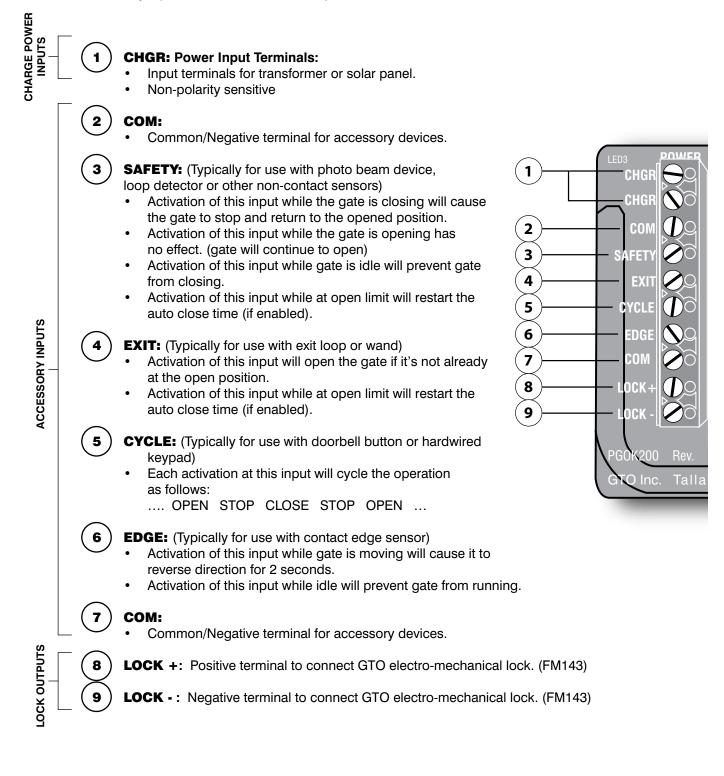
Wiring Accessories through Wiring Knockout



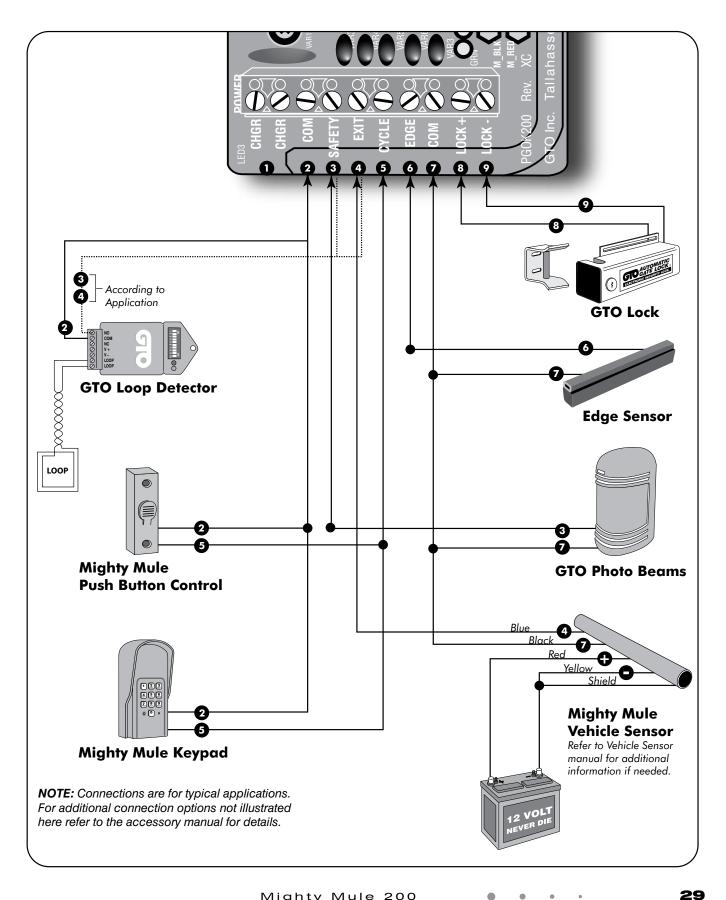
Control Board Connections

NOTE:

- All accessory inputs are dry-contact, normally open, inputs. DO NOT apply external voltage sources to these inputs.
- All accessory inputs are connected with respect to COMMON terminal.



Connecting Accessories



Visual and Audible Diagnostic Indicators

If your gate opener does not function properly after it is installed, use this guide or use the **online troubleshooter at http://support.gtoinc.com/support/troubleshooter.aspx** before calling the GTO Service Department.

- On all gates weighing 250 lb. or more, routinely grease the ball bearing hinges at least 4 times a year; more frequently if the gates are in a coastal area.
- Clean the push-pull tube with a soft, dry cloth and apply silicone spray to it at least once a month.

1. Visual Indicators:

- a. Power LED (Green):
 - ON: AC power or Solar power is present.
 - OFF: There is no AC input power.
- b. Status LED (Yellow): (while unit is running this LED will be OFF)
 - Rapid blinking in random pattern: GTO's transmitter 318 MHz signal is detected.
 - Continuously ON: Battery is in fast charge mode.
 - 1 Blink every 2 seconds: Battery is in float charge mode (battery is fully charged)
 - OFF: Switch is in the OFF position or there is no input power for at least 60 seconds.

2. Audible Indicator (Alarm/Buzzer):

- a. 1 Beep upon power up:
 - This is normal self test when the unit is turned on.

b. Continuous beep after power up:

- Unit has learned new transmitter code, releasing the transmitter button will shut off the alarm or...
- Unit has entered 'LEARN LIMIT' mode, releasing the transmitter button will shut off the alarm.

c. Rapid beeping:

- Unit has encountered two (2) obstructions without reaching either limit. (Power cycle to reset the alarm)
- Transmitter will not operate the gate.
- Alarm will automatically shut off after 5 minutes.

d. 1 beep every 20 seconds:

- Low battery is detected.
- e. 1 beep every 2 second:
 - Position sensor is open circuit. Call GTO service department.
- f. 2 beeps every 2 second:
 - Position sensor is short circuit. Call GTO service department.

g. 1 beep when attempting to run the gate:

- Blown fuse.
- Battery is extremely low or damaged.
- Loose connection from battery to circuit board.

The Gate CLOSES Then Opens Again on its Own: 1. Check the position of the mounting brackets and readjust if necessary.

- 2. Check the gate for binding or hinge damage.
- 3. Adjust stall force if necessary.

The Gate OPENS Then Closes Again on its Own: 1. Check the position of the mounting brackets and readjust if necessary.

- 2. Check the gate for binding or hinge damage.
- 3. Adjust stall force if necessary.

VOLTAGE RATINGS					
18 Vac Transformer	_18.0 to 22.0 Vac 2200 mA				
5 W Solar panel (single) measure voltage at panel and control box.	_18.0 to 22.0 Vdc 300 mA				
12 V Battery Charging circuit measure voltage with battery connected	_12.0 to 13.5 Vdc _12.0 to 14.8 Vdc				

Warranty Service

If your Mighty Mule[®] Gate Opener is not operating properly, please follow the steps below:

- 1. First use the procedures found in the Visual and Audible Diagnostic Indicators section (see page 30).
- 2. Use the Online Troubleshooter at http://support.gtoinc.com/support/troubleshooter.aspx.
- If you are unable to solve the problem, call the GTO Service Department at (800) 543-1236, or (850) 575-4144. Refer to the serial number (located on the back of opener arm) and date of purchase when calling for assistance.
- 4. If replacement of your gate opener is necessary, the Service Department will assign a **Return Goods Authorization (RGA) number** to you for all warranty repairs
- Securely pack the component(s) authorized for return to the factory. Write the RGA number issued to you on the outside of the package in LARGE BOLD PRINT and include a copy of the receipt for proof of purchase. Ship the package(s) freight prepaid to: GTO, Inc., 3121 Hartsfield Road, Tallahassee, Florida, USA 32303.

NOTE: Products returned to GTO without a Return Goods Authorization (RGA) number in LARGE BOLD PRINT on the outside of the package WILL NOT be accepted. Also, items returned to GTO freight collect WILL NOT be accepted.



For more information on Mighty Mule's full line of Automatic Gate Openers and Access Controls visit our website at www.mightymule.com

For 24 hour/day, 7 day/week Technical Service visit http://support.gtoinc.com/support/troubleshooter.aspx

The **GTO**, Inc. Technical Service Department is open Monday – Friday 8:00 A.M. – 7:00 P.M. (Eastern Time) 1-800-543-1236

> For sales call toll free: 1-800-543-GATE (4283)

GTO, Inc.

3121 Hartsfield Road • Tallahassee, Florida, USA 32303 • (850) 575-0176 Fax (850) 575-8912 • www.mightymule.com



ACCESSORIES

Accessories are Available From Your Retail Store

Solar Panel (FM121) 5 watt (FM123) 10 watt

This solar powered battery charger is for use with the **FM200** gate operator system. Particularly suited for remote installations, each **Solar Panel** comes with tubular steel support, mounting clips, wire connectors, and 8 ft. of low voltage wire (see Low Voltage Wire for additional wire). The Mighty Mule® control board has clearly labeled terminal connections for easy installation of the Solar Panel. Installation in some regions of the world will require multiple solar panels for adequate charging power.

Push Button Control (FM132)

Unlit doorbell button for remote entry or exit control. Wires directly to the control board and uses 16 gauge multi-stranded, dual conductor low voltage wire (sold separately).

Pin Lock (FM133)

The **Pin Lock** substitutes for the clevis pin at the front end of the Mighty Mule® gate openers. Helps prevent theft of the operator from the gate, while allowing guick release of the operator.

Kev Chain Two Button Transmitter (FM134)

The Key Chain Transmitter is a dual button version of the **Mighty Mule**® single button entry transmitter and has the same adjustable code settings. Used for 2 gates or 1 gate and garage door. (battery is included)

Single Button Transmitter (FM135)

The Mighty Mule® entry transmitter, with adjustable code settings, is standard equipment with all Mighty Mule® systems. (battery is included)

Digital Keypad (FM137)

The specially designed digital keypad can be easily installed as a wireless or wired keypad. It can be programmed to use up to 25 different personal identification number (PIN) codes. Each code is face programmable with additional security features built in. Wired installations require 16 gauge, low voltage, multi-stranded, dual conductor, direct burial wire (sold separately). Requires 3 AA batteries (not included).

Mounting Post (FM100) - In Ground

This black powder coated pedestal is designed to provide convenient access to your keypad, wireless intercom, or other access control device from your vehicle. With its break down design it is easy to install and works well in most standard applications. Surface Mount Flanges (F102) and Extensions (F103) for added height are available.

Mighty Mule[®] Vehicle Sensor (FM138)

The Gate Opening Sensor is designed for residential and agricultural applications and is compatible with most Mighty Mule® automatic gate opener models (see Sensor Box for model compatibility). The Sensor is an electromagnetic sensor, which offers 'hands free' operation of the Mighty Mule® Gate Operator with a 12 ft. radius of detection of vehicles in motion. A wireless version of the Gate Opening Sensor is available. (FM130)



Automatic Gate Lock Pull-to-Open (FM143)

A MUST for added security. Solenoid driven, with a steel housing. Unlocks and locks automatically as gates open and close. Used with Mighty Mule® DC swing gate operating systems for maximum stability and security. Comes with a keyed manual release. Recommended for gates over 8 ft. long. Ideal for animal enclosures or high wind areas.

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Accessories are Available From Your Retail Store (con't)



Wireless Entry Intercom / Keypad (FM136)

Allows owner to screen guest at the gate before allowing access to the property. Keypad also allows owner to give up to 25 programmable entry codes to family, friends or approved delivery personnel. Codes can be permanent or temporary. Can be wireless up to 500 feet. Additional base stations available (F3101MBC).

Drivewav Alarm (FM131)

Keep track of the comings and goings on your property with this electromagnetic sensor alert system. When a vehicle passes the sensor, the receiver emits an audible tone and lets you know someone's there. Functional range of up to 400 ft. Easy-to-install and stake is included in kit. Transmitter requires 2 "C" batteries (not included)

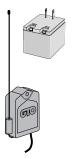
Wireless Driveway Vehicle Sensor (FM130)

The wireless gate opening sensor offers hands free operation of the Mighty Mule Gate Opener. Works wirelessly up to 100 feet from the gate. Transmitter, receiver and two AA batteries are included.



Low Voltage Wire (RB509)

The 16 gauge, multi-stranded, dual conductor Low Voltage Wire is for connecting the AC powered transformer, or the Solar Panel to the control board. Also used for the connection of accessories, such as locks, keypads, push buttons and other wired control devices. This specially designed wire is UV treated, PVC coated and ready for direct burial. Available in 1000' rolls or special lengths.



Replacement Transformer (RB570)

Standard 18 volt, 2200 mA, AC transformer for maintaining the battery included with the Mighty Mule® gate operator. This is the only transformer approved for use with all UL325 Mighty Mule® gate operator systems.

Garage Door Receiver (RB709U-NB)

The Garage Door Receiver allows you to use the same Mighty Mule® entry transmitter to operate your gate operator and your garage door operator. Compatible with most garage door operators.

If you have a question about any special order item, just call 1-800-543-GATE!

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