WARNING!

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 Gates That Open, LLC, 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 Gates That Open, LLC, 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.
Class Rating

The E-Z Gate Dual Opener is intended for use with vehicular swing gates in single family residential applications. The opener is system certified to be in compliance with UL 325, current edition, as of publication date.

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 dwellings, 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.

Restricted Access Vehicular Gate Opener—Class IV: A vehicular gate opener (or system) intended for use in a guarded industrial location or building such as an airport security area or other restricted access locations not servicing the general public, in which unauthorized access is prevented via supervision by security personnel.

<table>
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<th>Converting Metric Units to English Equivalents</th>
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FOR YOUR RECORDS

Please record the following information product serial number (located on right side of control box), be sure to keep all receipts for proof of purchase. Refer to this information when calling GTO for service or assistance with your automatic gate opener.

Serial Number: ___________________________ Date of Purchase: ________________
Place of Purchase: ___________________________________________________________________
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Thank you for purchasing an E-Z Gate Opener "do-it-yourself" automatic gate opener! When correctly installed and properly used, your E-Z Gate Opener will give you many years of reliable service. Please read the following information to ensure you have the correct system for your particular needs. Furthermore, this manual will enable you to properly install your E-Z Gate Opener.

The E-Z Gate Opener is designed for installation on **Pull-To-Open dual gate leaves** (gates that open into the property). By purchasing accessory brackets [E-Z GATE Push Bracket], the E-Z Gate Opener can accommodate **Push-To-Open dual gate leaves** (gates that open out from the property). Please see Pull-To-Open/Push-To-Open diagram on page 3. The gates must not exceed 12 ft. or 300 lbs. per leaf (see Technical Specifications on page 1). The E-Z Gate Opener can be used on vinyl, aluminum, chain link, farm tube, and wrought iron gates.

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 E-Z Gate Opener features an **adjustable stall force** setting. This safety feature makes the gate stop and reverse direction within 2 seconds when it comes in contact with an obstruction. The MIN setting means the gate will exert the minimum force on an obstruction before it stops and reverses direction. **You will need to adjust the stall force for your particular application.**

The E-Z Gate Opener also has an **adjustable auto-close** feature. After the gate reaches the fully open position, it can be set for OFF, or to remain open from 3 to 120 seconds before automatically closing. Pressing the remote button at any time after the gate opens fully will cause it to close immediately. The auto-close factory setting is OFF, meaning the gate will stay open until you press the remote (or keypad, etc.) again.

The E-Z Gate Opener accommodates extra remotes, digital keypads, solar panels, and other access control products.

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

- Column Mounting
- Slide gates
- Swing gates longer than 12 feet or weighing more than 300 pounds
- Professional installation

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

**BEFORE YOU BEGIN TO INSTALL YOUR AUTOMATIC GATE OPENER:**

Read these instructions carefully and completely to become familiar with all parts and installation steps. You must read the installation manual for detailed instructions on gate opener safety and proper use of the gate opener.

All E-Z GATE openers run off of 12 volt battery power. This installation requires the battery charge to be maintained by either a 14 volt transformer **OR** an optional solar panel connected by 16 guage, low voltage, stranded, dual conductor, direct burial wire.

**NEVER USE TRANSFORMER AND SOLAR PANEL(S) AT THE SAME TIME!**

It will damage the control board
IMPORTANT SAFETY INSTRUCTIONS

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](warning). The symbol identifies conditions that can result in damage to the opener or its components, serious injury, or death.

Because 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.

---

**How To Manually Open and Close the Gate:**

⚠️ **CAUTION:** The gate can be opened and closed manually when the opener is disconnected. **ONLY disconnect the opener when the opener power switch is OFF and the gate is NOT moving.**

*Because the E-Z gate opener is battery powered, disconnect the opener ONLY when the power switch on the control box is turned OFF. Unplugging the transformer does not turn power to the opener OFF.*

**Disconnecting the Opener**

1. **Turn opener power switch (Control Box) OFF:**
2. **Remove hairpin clip, clevis pin, and bushing from both the front and rear mounting points.**
3. **Remove the opener from the mount.**

**IMPORTANT:** **NEVER** allow opener arm to hang by the front or rear mount — it will break from the arm weight

---

**NOTE:** Substitute an E-Z GATE Pin Lock (See accessory insert or visit Walmart.com) for the clevis pin on the front mount of the gate opener to prevent unauthorized removal of the opener from the gate.
IMPORTANT SAFETY INSTRUCTIONS

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 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 (page iii).

4. This gate opener is intended for vehicular gates ONLY. A separate entrance or gate must be installed for pedestrian use (page vi).

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 gates.
- **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, 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 keypads 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.** (See pg viii)

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” (drive through) 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 ALL gate 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. Apply silicone spray to a soft, dry cloth and clean the push-pull tube at least once a month.
IMPORTANT SAFETY INSTRUCTIONS

7. To operate this equipment safely, YOU must know how to disconnect the opener for manual gate operation (page iii). 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 mighty-mule.com or by contacting Gates That Open, LLC., 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.

Required Safety Precautions for Gates

Install Warning Signs

Warning signs alert people of automatic gate operation and are required when installing the E-Z Gate Opener. The Warning signs included must be installed on both sides of each gate. Furthermore, a walk-through gate must be installed if pedestrian traffic is expected near the vehicular gate.

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.

For more information call GTO Technical Service at 1-800-543-1236
IMPORTANT SAFETY INSTRUCTIONS

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 E-Z Gate Opener utilizes Type A, an inherent (i.e., built-in) entrapment sensing system as the primary type of entrapment protection. Also, the E-Z Gate Opener 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.

You may want to consider adding photo beams to your installation. Photo Beams provide a “non contact” means of entrapment protection. Call 1-800-543-GATE (4283) for more information.

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

The 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 remotes and wireless keypads will not deactivate the alarm.
IMPORTANT SAFETY INSTRUCTIONS

Moving Gate Can Cause Injury Or Death

1. KEEP CLEAR! Gate may move at any time.
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 (4 enclosed) to be installed on both sides of each gate (3–5 feet above the bottom of the gate)

Product identification label (2)
installed under rear mount of each arm

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

Logo and warning labels (4)
installed on each side of opener housings

If any of these signs or warning decals become damaged, illegible or missing, replace them immediately.
Contact GTO at 1-800-543-GATE (4283) for free replacements.
Technical Specifications

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.
• 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, 7.0 Ah, sealed, rechargeable acid battery.
• Battery charge is maintained by a 120 Vac, 14 Vac output transformer (20 VA) through the E-Z GATE control board or by optional E-Z GATE Solar Panels; the panel should generate minimum of 10 Watts. 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

• E-Z GATE microprocessor-based control board is set for dual leaf, pull-to-open gate installations. Jumper can be removed to for push-to-open gates.
• A circuit on the control board regulates charging. “Sleep draw” is 15 mA; “active draw” is 3 to 8 A.
• Auto-memorization of digital remote code.
• E-Z GATE RF receiver tuned to 318 MHz.
• Opener length with push-pull tube fully retracted is 26 3/8”, mounting point to mounting point. Maximum stroke is 13”.
• Adjustable auto-close timer (OFF or 3–120 seconds), and obstruction sensitivity (stall force).
• Power terminal block accommodates a transformer or solar panels.
• Accessory terminal block fully compatible with all E-Z GATE 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.

OPERATIONAL CAPACITY

• The Gate Capacity Chart shows approximate cycles, per day, you can expect from the E-Z Gate Opener when powered with a transformer. Actual cycles may vary slightly depending upon the type and condition of gate and installation.

<table>
<thead>
<tr>
<th>Gate Weight</th>
<th>Number of Cycles Per Day</th>
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<tbody>
<tr>
<td>300 lbs.</td>
<td>39 36 34 31</td>
</tr>
<tr>
<td>150 lbs.</td>
<td>41 39 36 34</td>
</tr>
<tr>
<td>100 lbs.</td>
<td>44 41 39 36</td>
</tr>
<tr>
<td>50 lbs.</td>
<td>46 44 42 39</td>
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</table>

*These specifications are subject to change without notice.

An operation cycle is one full opening and closing of the gate.

**NOTE:** BALL BEARING HINGES SHOULD BE USED ON ALL GATES WEIGHING OVER 250 LBS.
To determine the number of cycles the gate opener will perform using solar panels, please see the specifications listed on page 2.
1. Determine Charging Options for Battery: Transformer OR Solar

**NEVER USE TRANSFORMER AND SOLAR PANEL(S) AT THE SAME TIME!**
It will damage the control board!

**IMPORTANT:**
- The EZ-GATE’s 12 volt battery must be charged by either connecting the transformer (included) or solar panel kit to the control board.
- The transformer is designed for indoor use. If the transformer can be plugged only into an outside electrical outlet, a weatherproof cover/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 10 watts solar charging power to charge the battery. Refer to the Solar Panel and Gate Activity chart below.
- All low voltage wire used with the E-Z GATE Opener must be 16 gauge dual conductor, stranded, direct burial wire. Do not run more than 1000 ft. of wire.

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**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 10 to 20 watts of solar charging power. 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. NEVER USE TRANSFORMER and SOLAR PANEL AT THE SAME TIME!**

NOTE: UP to 250 ft. of 16 gauge dual conductor, stranded, direct burial wire may be used to allow installation of solar panels in direct sunlight.

**Solar Charging Options**
- 10 Watt E-Z GATE Solar Panel
- 5 Watt E-Z GATE Solar Panel
- EZGO-Solar Optimizer Kit
  (recommended for EZGO-Dual gate kit)

(See accessory insert or visit Walmart.com)
2. Check Direction of Gate Swing
The E-Z GATE Opener is designed for **PULL-TO-OPEN** installations. **PUSH-TO-OPEN** installations require two Push-To-Open brackets [E-Z GATE Push Bracket]. Push-to-Open Installation Instructions begin on page 19.

3. Prepare the Gates
   - Gates must be plumb, level, and swing freely on their hinges.
   - Wheels must **NOT** be attached to the gates.
   - The gates must move throughout their arcs **without binding or dragging on the ground**.
   - Note that gates **over 250 lbs. should have ball bearing hinges** with grease fittings.
   - The gate post should be be secured in the ground with concrete so it will minimize twist or flex when the opener is activated.
   - Make sure there is a stable area for mounting the gate bracket (this may require the addition of a horizontal or vertical cross member).
   - Trench the driveway in order to lay PVC conduit for the second opener power cable (see overview illustration on page 6).
Parts List – Opener and Mounting Hardware

Hairpin Clip (4)
3/8" x 1-1/2" Clevis Pin (4)
3/8" x 8" Bolt (4)
3/8" x 1-1/2" Bolt (2)
5/16" x 1-1/2" Bolt (2)
5/16" x 2-3/4" Bolt (4)
3/8" x 1-1/2" Bolt (2)
3/8" x 2-3/4" Bolt (4)

8" Nylon Cable Tie (28)
3/8" Washer (12)
5/16" Washer (2)
3/8" Lock Nut (10)
5/16" Lock Nut (2)
3/8" Bushings (2)
2" Mounting Screw (6)

Transformer (1)
Remotes (2)
Warning Signs (4)
Wire Harness (1)
Control Box w/ Battery Box (1)

Gate Opener (2)
Gate Bracket (2)
Post Pivot Bracket (2)
Customer Support Card (1)
Gate Opener (2)
Closed Position Stop Plate (2)
Post Bracket (2)

Hardware Bag Contents

1. KEEP CLEAR! Gate may move at any time.
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.

Moving Gate Can Cause Injury Or Death

WARNING!
Tools and Materials

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
- Large Phillips Screwdriver
- Tape Measure
- Level
- Wire Strippers
- C-Clamps — small, medium, and large
- Center Punch
- Hammer (for center punch)
- Extra person will be helpful

Materials You May Need for the Installation:

These items are NOT included with the gate opener kit. Some of these items can be purchased separately.

- Low voltage wire 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 control box. (Page 14)
- If the gates are more than 1000' away from an AC power source you will need to use at least one 10 Watt solar panel or two 5 Watt panels to charge the 12 Volt battery. (Page 2)
- PVC conduit for protecting wiring. (Page 6)
- Push-To-Open Brackets [E-Z GATE Push Bracket] are required if gates open out from property. (Page 3)
- Materials to reinforce thin walled tube or panel gates. (Page 7)
- 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. (Page 3 & 7)
- Some installations may require muffler clamps for the gate bracket. (Page 7)
- Surge protection for transformer. (Page 15)
- Weather proof outlet is required if transformer is plugged into outside outlet. (Page 15)
- Some types of installations require U-Bolts for closed position stop plate. (Page 11)
- A low profile ground stop is required for dual gates when using an automatic gate lock. (Page 11)
Installation Overview for Pull-To-Open Gates

PUSH-TO-OPEN installation instructions begin on page 19.

Example of an installation on a chain link fence:

**IMPORTANT:** To achieve the most efficient leverage for the gate opener and ensure long trouble free service, the gate opener needs to be installed within the following parameters:

The diagram at left shows the optimum position for gate opener arm in relation to the gate in the open and closed positions. Be sure the position of the gate opener and brackets allows for 1" 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" from the end of the retracted opener arm to the gate bracket with the gate in the closed position.

If the gate post is larger than 6" the Post Pivot Bracket can be removed and the center hole of the Post Bracket can be the mounting point for the gate opener.
IMPORTANT: Determine which side of the driveway you will mount the control box. From this point on, the gate and gate opener on the same side as the control box will be referred to as the FIRST gate and gate opener. The gate and gate opener on the opposite side of the driveway from the control box will be referred to as the SECOND gate and gate opener.

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

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 must completely penetrate the post.

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

The post pivot bracket may not be necessary on posts larger than 6" in diameter (see page 6). Fence posts smaller than 6" in diameter or 6" square should be made of metal instead of wood to remain stable while the opener is moving the gate.

Reinforcing Gates for the Gate Brackets
We recommend using a muffler clamp, wood, or metal, 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. Additional hardware may be needed depending on the installation.
Install Post Bracket Assembly and Gate Bracket

**Step 1**
Insert the 3/8" x 1 1/2" bolt through the center hole of the post brackets and post pivot bracket. Secure with a 3/8" washer and 3/8" lock nut. **DO NOT overtighten** the lock nut (the post pivot bracket will have to be adjusted later).

**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.

**Step 3**
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 4**
With the gate in the **fully open position and the opener arm 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 secure the post bracket assembly and gate bracket to the post and gate.
Step 5
Be sure the position of the gate opener and brackets allows for 1" of clearance between the gate and the opener in both the open and closed position, while at the same time maintaining a maximum distance of 13" from the end of the retracted opener arm to the gate bracket with the gate in the closed position. This mounting position will give the opener the most efficient leverage point for operation and provides the least possible pinch area.

Step 6
After verifying that you have the best position for the post pivot bracket in the open position, insert the 5/16" x 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. Again, check the clearance and be sure that the gate opener is not binding at the post pivot bracket. If you don’t have the required clearance, or if the gate opener is binding on the post pivot bracket, remove the 5/16" x 1 1/2" bolt and readjust the post pivot bracket.

NOTE: Tighten all lock nuts on gate bracket assembly at this time.

TIP: Turn the post pivot bracket over for more hole alignment options. You can also move the entire post bracket assembly to different positions on the post.

Step 7
When the post bracket assembly is in the optimum position, reattach the opener to the gate bracket (gate in the open position); recheck the gate opener level; make sure the brackets are clamped securely.

Step 8
Mark reference points for bolt holes on the post through middle of post bracket assembly slots. Mark reference points for bolt holes on the gate cross member through middle of gate bracket slots. After marking your reference points, remove the opener and brackets from the fence and gate.
Step 9
Drill 3/8" holes through post as marked. Fasten post bracket assembly to the fence post using two 3/8" x 8" bolts, washers and lock nuts. **You must use bolts that completely penetrate the post.**

Step 10
Drill 3/8" holes through the gate cross member as marked. Mount gate bracket using two 3/8" x 2 3/4" bolts, washers, and lock nuts. Tighten all lock nuts at this time.

**NOTE:** After the gate opener installation is complete and operation of the opener system has been tested, you should remove excess bolt length extending beyond the tightened nuts with a hacksaw or bolt cutters.

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**Attach Opener Arms**

**Step 1**
Attach the opener arms to the securely bolted post bracket assembly and gate bracket using clevis pins, bushings, and hairpin clips, or optional Pin Lock [E-Z GATE Pin Lock]. Verify that the opener is level and adjust the post bracket assembly, if necessary.

**Step 2**
Install the SECOND gate opener and hardware on the second gate following the same procedures as the FIRST gate opener and hardware (*Installing Post Bracket Assembly and Gate Bracket* Steps 1–10).

**NOTE:** The power cable for the Second Opener should be run in PVC conduit under the driveway to protect it from damage due to lawnmowers, heavy equipment, etc. (See illustration on page 6.) NEVER SPLICE opener arm power cables. This will cause performance problems and may damage the opener.
Install the Closed Position Stop Plates

The closed position stop plate is attached to the FIRST gate to help stabilize the gate leaf in the closed position. An optional low profile ground stop, when used with the closed position stop plate, provides a secure point for the SECOND gate to close against.

To further enhance the stability and security of your gate, install an optional automatic gate lock. If you will be using a gate lock with your gate opener system, the closed position ground stop is required. (Call GTO at 1-800-543-GATE for more information)

For Pull-to-Open systems, install the closed position stop plates on the inside of the gates. For Push-to-Open systems, install the closed position stop plates on the outside of the gates.

Step 1
Detach the gate opener arms from the gates and move the gates to the closed position.

Step 2
Using appropriate hardware for your type of gate (U-bolts for tube or chain link; screws or bolts for wood or metal) attach the closed position stop plate (horizontally) about mid-height on the FIRST gate frame. Do not tighten it completely at this time. Slide the stop plate toward the frame of the SECOND gate leaf until they touch. Once you have moved the stop plate to the correct position, tighten its hardware completely.

Step 3
The low profile ground stop may be made of metal or concrete and should be firmly secured in the ground. The low profile ground stop should be installed beneath the SECOND gate, positioned near the leading edge.
**Step 4**  
Using appropriate hardware for your type of gate, attach the vertical closed position stop plate to the SECOND gate frame at the point where it will come in contact with the low profile ground stop. Do not tighten it completely at this time. You must slide the closed position stop plate toward the low profile ground stop until they touch. Once you have moved the stop plate to the correct position, tighten its hardware completely.

**Step 5**  
Return the gates to their open positions and reattach the gate openers to the gates.

---

**Mount Battery Box and Control Box**

**Step 1**  
Remove the Control box from the Battery Box by removing the three screws as shown.

**Step 2**  
Mount the Battery Box using the screws (provided) or another secure mounting method. The battery/control box must be mounted at least 3 feet above the ground to protect it from rain splash, snow, etc., and at least 3 feet from an AC power source to prevent electrical interference.

**Step 3**  
Slide the battery into position with the terminals at the TOP (see Illustration B).
Connect Battery

**Step 4**
Verify that the ON/OFF switch is in the OFF position.

Connect the BATTERY WIRE HARNESS wires to the battery --- RED wires to POSITIVE (+) battery terminal and BLACK wires to NEGATIVE (–) battery terminal.

The BATTERY WIRES from the CONTROL BOARD should extend through the KNOCK-OUT in the back of the CONTROL BOX. Plug the BATTERY HARNESS wires into the wires coming from the CONTROL BOX.

**Step 5**
Tuck the excess battery leads into the battery box and reattach the CONTROL BOX to the BATTERY BOX.

Install Antenna

**Step 6**
Remove the four (4) control box cover screws and remove the cover to access the CONTROL BOARD.

**Step 7**
Attach antenna to control box cover. First, remove the Phillips screw (labeled ANT) from the control box cover. Place one end of the antenna coil over the antenna plug (antenna wire will fit into groove). Tighten the Phillips screw to secure antenna.
Connect Opener Power Cables

**Step 1**
Bring FIRST power cable into the control box through a strain relief slot, leaving enough wire to reach the FIRST OPR. terminal block.

Insert the individual power cable wires into appropriate terminals on the FIRST OPR. terminal block (white to WHT; green to GRN; red to RED; black to BLK). Tighten the set screws.

**Step 2**
Pull the 36’ second opener power cable through the PVC conduit and secure in the driveway slot/trench (see installation overview on pg. 6).

**Step 3**
Insert the SECOND power cable into a strain relief slot at the bottom of the control box, leaving enough wire to reach the SECOND OPR. terminal block.

Insert the individual power cable wires into appropriate terminals on the SECOND OPR. terminal block (white to WHT; green to GRN; red to RED; black to BLK). Tighten the set screws.

Connect the Transformer (*Solar Instructions on Page 21)

**NEVER USE TRANSFORMER AND SOLAR PANEL(S) AT THE SAME TIME!**

**IMPORTANT INFORMATION ABOUT LOW VOLTAGE WIRE:**

- The only wire acceptable is 16 gauge dual conductor, stranded, direct burial wire. This particular gauge enables the transformer to provide an adequate charge through the control board to the battery at distances up to 1000'.

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

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

**Step 1**
Make sure the power switch is OFF.

**Step 2**
Select the electrical outlet into which you will plug the transformer. Measure the distance from this outlet to the control box following the path where the wire will be laid (allow for an additional 6” to be pulled into the control box).
Step 3
Lay the 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. Bury the wire in the trench.

Step 4
Bring enough wire up through the PVC conduit to reach the control board.

Step 5
Strip $3/16''$ off the ends of the low voltage wire and twist tightly. Attach these ends to the 14VAC OR SOLAR terminals located on the terminal block). Be certain not to let the exposed wires touch each other!

Insert one transformer wire into a 14VAC OR SOLAR terminal. Insert the other transformer wire into the remaining 14VAC OR SOLAR terminal. The transformer wires can be connected to the 14VAC OR SOLAR terminals regardless of color/polarity.

Tighten set screws against exposed end of wires.

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.

Make sure the exposed wires do not touch each other!

Step 7
Plug the transformer into the electrical outlet. Use of a surge protector with the transformer is strongly recommended. If electrical outlet is located outdoors, outlet and transformer should be protected by a weatherproof cover.
Set Closed Position Limit (for Pull-To-Open Applications)

Step 1
Power switch is on, gates are in the OPEN position, opener arms fully retracted.

*NOTE: The opener arms must be extended more than 7 inches to set limits.*

Step 2
Press and HOLD 2nd Gate Opener JOG OPEN and CLOSE button. The gate will begin to CLOSE. Release the button when the gate reaches desired closed position. Use the JOG OPEN and CLOSE buttons to "fine tune" the gate position if necessary.

Step 3
Press and HOLD 1st Gate Opener JOG OPEN and CLOSE button. The gate will begin to close. Release the button when the gate reaches desired closed position. Use the JOG OPEN and CLOSE buttons to "fine tune" the gate position if necessary.

Step 4
With both gates in the CLOSED position press and hold the SET LIMIT button until the alarm and the red light come on. Release the SET LIMIT button.

Step 5
Press the remote button once (within 5 feet of control box) and allow the gates to fully open. The alarm will sound once both gates reach the OPEN LIMIT.

Both arms are now programmed.
**Step 6**
Press the remote again to allow the gates to fully close to verify that the closed position is set correctly. Repeat steps 2 - 5 if necessary.

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**Adjust Stall Force Setting**
The Stall Force potentiometer controls the amount of force the opener will apply against an obstruction before it stops and reverses direction within two seconds.

**IMPORTANT:** The Stall Force setting will need to be adjusted to compensate for the weight and size of your gates. For safety reasons, use the lowest possible setting to operate the gate.

The Stall Force potentiometer on the control board operates like a volume control on a radio. Use a small flat blade screwdriver to turn the arrow in the center of the potentiometer. Adjust the sensitivity from the MINIMUM position just to the point where the gates operate smoothly without obstructing from their own weight or wind conditions.

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

**Set Auto-Close Time**
The Auto-Close determines how long the gate will remain open before it automatically closes. The factory setting is OFF. Use a small flat blade screwdriver to adjust the settings to OFF, or from 3 to 120 seconds.

**NOTE:** Auto-Close timer is disabled (gate will not automatically close) if gate is not at the fully open position.

Re-attach the cover of the control box at this time.
Personalize Your Remote Setting

All remotes have a standard setting and are ready to operate your E-Z Gate Opener. For your safety and security, we strongly recommend that you replace the factory setting with your own personal setting.

NOTE: If you have multiple remotes, you should adjust all of them at this time.

**Step 1**
Use a small Phillips head screw driver to remove the remote cover.

**Step 2**
Set the remote DIP switches using a small screwdriver. There are nine (9) remote 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 reset, replace and close the access cover.

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

**Step 3**
Program the new setting in the control board memory.

A. Slide the control box ON/OFF switch to the OFF position.
B. Press and hold the remote button while sliding the ON/OFF switch to the ON position.
C. Continue to hold the remote button until the alarm sounds (3-5 seconds).
D. Release the remote button. The new remote setting is now programmed.
E. Verify that the remote operates the gate.

NOTE: It is NOT necessary to remove the cover of the control box to program the new remote code if the control box cover is removed the range of the remote is reduced to less than 5 feet.

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FCC WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In accordance with FCC Part 15, Section 15.21, the manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could VOID the user authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. The external solid wire antenna was used during FCC testing. Substitutes should not be used.

However, there is no guarantee that interference will not occur in particular installations. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Increase the separation between the equipment and the receiver. • Connect the equipment into an outlet on a circuit different from that which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.
Push-To-Open Installation Instructions

PUSH-TO-OPEN gates open out from the property (opener arms extend to open). E-Z GATE push brackets are required for this type of installation, one for each gate. In a Push-To-Open installation, the opener is installed while the gate is in the closed position and the opener fully is retracted.

Swinging gates MUST NEVER open into public access areas!

Step 1: Read “Installation of the Gate Opener” on page 7.
Step 2: Determining The Mounting Position of The Post Bracket Assembly

A. Insert the 3/8” x 1 1/2” bolt through the center hole of the post brackets and post pivot bracket. Secure with a 3/8” washer and 3/8” lock nut. DO NOT overtighten the lock nut (the post pivot bracket will have to be adjusted later). 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 5/16” bushing. Secure the clevis pin with a hairpin clip.

B. With the gate in the closed position (up to 110º from its open 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: Be sure the position of the gate opener and brackets allows for 1” of clearance between the gate and the opener in both the open and closed position, while at the same time maintaining a maximum distance of 13” from the end of the opener arm to the gate bracket with the gate in the open position. This mounting position will give the opener the most efficient leverage point for operation and provides the least possible pinch area.

C. After verifying that you have the best position for the post pivot bracket in the closed position, insert the 5/16” x 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 open position. Again, check the clearance and be sure that the gate opener is not binding at the post pivot bracket.

IMPORTANT: If you don’t have the required clearance, or if the gate opener is binding, remove the 5/16” x 1 1/2” bolt and readjust the post pivot bracket. TIP: Turn the post pivot bracket over for more hole alignment options.

D. When the post pivot bracket assembly is in the optimum position, reattach the opener to the gate bracket (gate in the closed position); recheck the gate opener level; make sure the brackets are clamped securely. Mark reference points for bolt holes on the post through middle of post bracket slots. Mark reference points for bolt holes on the gate cross member through middle of gate bracket slots. After marking your reference points, remove the opener and brackets from the post and gate.

E. Drill 3/8” holes through post as marked. Fasten post bracket assembly to the post using two 3/8” x 8” bolts, washers and lock nuts. You must use bolts that completely penetrate the post. Drill 3/8” holes through the gate cross member as marked. Mount gate bracket using two 5/16” x 2 3/4” bolts, washers, and lock nuts.
Step 3: Attach Opener Arms (page 10)
Step 4: Install Closed Position Stop Plates (page 11)
Step 5: Install the Control / Battery Box (page 12)
Step 6: Connect Battery Harness (page 13)
Step 7: Connect Opener Power Cables (page 14)
Step 7: Connect the Transformer (page 14) OR Solar Charger (page 21)
Step 8: Remove Push-To-Open Jumper
   A. Make sure the control box power switch is OFF.
   B. Use small pliers to remove the JUMPER for PUSH-TO-OPEN applications.
   C. Turn power switch ON. The control board is now configured to push the gate open. Keep the jumper, as it is necessary if there is ever a need to convert the opener for Pull-To-Open.
Step 9: Set the Open Position Limit (Push-to-Open)
The CLOSED limit is when the opener is fully retracted and the gate is in the closed position. The closed limit setting can only be adjusted by moving the gate bracket. To achieve the optimum open position, you must adjust the OPEN Limit setting:
   A. If not already ON slide the ON/OFF switch on the Control Box to the ON position and make sure the arms are in the CLOSED POSITION (fully retracted).
   B. Press and HOLD the FIRST Opener OPEN button on the control board and be prepared to RELEASE the button when the gates reached the desired open position/limit. Use the JOG OPEN and CLOSE buttons to “fine tune” the gate position if necessary.
   C. Press and HOLD the SECOND Opener OPEN button on the control board and be prepared to RELEASE the button when the gates reached the desired open position/limit. Use the JOG OPEN and CLOSE buttons to “fine tune” the gate position if necessary.
   D. NOTE: The opener arms must be extended more than 7 inches to set limits. With the gates in in the desired open positions PRESS and HOLD the SET LIMIT button until the alarm and RED Light come on. Then release the button.
   E. Press the remote button once and allow the gates to fully close. The alarm will beep within 5 feet of the opener once when both gates reach the CLOSED LIMIT. This indicates the LIMITS for both arms are learned and stored in memory.
   F. Press the remote button and allow the gates to fully open to verify that they stop at the desired positions. Repeat Steps B – E if correction is needed.

Note: Must have a remote that operates the gate. If not, see Personalize Your Remote Setting on page 18.

Step 10: Adjust Stall Force Setting (page 17)
Step 11: Set Auto Close Time (page 17)
Step 12: Personalize Remote Settings (page 18)
Step 13: Reattach the control box cover.
NEVER USE TRANSFORMER AND SOLAR PANEL(S) AT THE SAME TIME!
It will damage the control board!

IMPORTANT INFORMATION ABOUT LOW VOLTAGE WIRE:

- The only wire acceptable is low voltage, 16 gauge, dual conductor, stranded, direct burial wire. This particular gauge enables the solar panel to provide an adequate charge through the control board to the battery at distances up to 250'.
- DO NOT use telephone wire or solid core wire. Unlike stranded wire, these types of wire are inadequate for use with your gate opener system.

Step 1
Make sure the power switch is OFF.

Step 2
Strip 3/16" off the ends of the low voltage wire and twist tightly. Attach these ends to the 14VAC OR SOLAR terminals located on the terminal block. Be certain not to let the exposed wires touch each other!

Step 3
Insert one solar panel wire into a 14VAC OR SOLAR terminal. Insert the other solar panel wire into the remaining 14VAC OR SOLAR terminal. The wires can be connected to the 14VAC OR SOLAR terminals regardless of color/polarity.

Step 4
Tighten set screws against exposed end of wires.

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

Solar Panels connect in PARALLEL
Connecting Accessories and Safety Devices

We strongly recommend the use of additional safety devices, however, we do not endorse any specific brands. 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-GATE (4283) for information on compatible products for your specific application.

**Step 1**
Turn control box OFF before connecting safety device wires to the control board. (Unplugging the transformer does not turn power to the opener OFF.)

**Step 2**
Run wires from safety devices and other accessories through the strain relief openings in the bottom of the control box.

**Step 3:**
Follow directions in Accessory Installation Manuals.

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**NOTE:** Connections are for typical applications. For additional connection options not illustrated here refer to the accessory manual for details.
Accessory Inputs

1 SAFETY: Typically for use with photo beam device, loop detector or other non-contact sensors
   • Activation of this input while the gate is closing will cause the gate to stop and return to the opened position.
   • Activation of this input while the gate is opening has no effect (gate will continue to open).
   • Activation of this input while gate is idle will prevent gate from closing.
   • Activation of this input while at open limit will restart the auto-close time (if enabled).

2 EXIT: Typically for use with exit loop or wand
   • Activation of this input will open the gate if it’s not already at the open position.
   • Activation of this input while at open limit will restart the auto close time (if enabled).
   • Activation of this input while gate is idle will prevent gate from closing.

3 CYCLE: Typically for use with doorbell button or hardwired keypad
   • Each activation at this input will cycle the operation as follows:
     … OPEN STOP CLOSE STOP OPEN …

4 EDGE SENSOR: Typically for use with contact edge sensor
   • Activation of this input while gate is moving will cause it to reverse direction for 2 seconds.
   • Activation of this input while idle will prevent gate from running.

5 COMMON: Common/Negative terminal for accessory devices

12 Volt Power (Maximum Current: 100 mA)

5 COM: Common/Negative terminal for accessory power source.

6 LOCK +: Power source for accessories, i.e. Gate Opening Sensor.

Lock Outputs

6 LOCK +: Positive terminal to connect Automatic Gate Lock.

7 LOCK –: Negative terminal to connect Automatic Gate Lock.

Charge Power Inputs

8 14VAC or SOLAR: Power Input Terminals:
   • Input terminals for transformer or solar panel.
   • Non-polarity sensitive.
If your gate opener does not function properly, use this guide or use the online troubleshooter at http://support.gtoinc.com before calling the GTO Service Department.

**VISUAL AND AUDIBLE DIAGNOSTIC INDICATORS**

1. **VISUAL INDICATORS:**
   a. Power LED (Green):
      • ON: AC power or Solar power is present.
      • OFF: There is no input power.
   b. Status LED (Yellow): (while unit is running this LED will be OFF)
      • Rapid blinking in random pattern: GTO’s remote 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 INDICATORS (ALARM/BUZZER):**
   a. Beeps upon power up:
      • This is normal self test when the unit is turned on.
   b. Continuous beep after power up:
      • Unit has learned new remote code, releasing the remote 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)
      • Remote will not operate the gate.
      • Alarm will automatically shut off after 5 minutes; gate will remain disabled until control box is restarted.
   d. 1 beep every 20 seconds:
      • Low battery is detected.
      • Check battery and connections / Check transformer or solar panel.
   e. 1 beep every 2 second (first opener):
      • Position sensor is open circuit.
      • Check opener arm connection / Call GTO Service department.
   f. 3 beeps every 2 second (first opener):
      • Position sensor is short circuit.
      • Check opener arm connection / Call GTO Service department.
   g. 2 beeps every 2 second (second opener):
      • Position sensor is open circuit.
      • Check opener arm connection / Call GTO Service department.
   h. 4 beeps every 2 second (second opener):
      • Position sensor is short circuit.
      • Check opener arm connection / Call GTO Service department.
   i. 1 or more beeps when attempting to activate the opener:
      • Blown fuse.
      • Battery is extremely low or damaged.
      • Loose connection from battery to circuit board.

3. **IF THE GATE STOPS AND REVERSES DIRECTION**
   a. Check the gate for binding or hinge damage.
   b. Adjust stall force if necessary.
   c. Check the position of the mounting brackets and readjust or tighten if necessary.
Voltage Readings

14 Vac Transformer _____________ 13.0 to 16.0 Vac
10 W Solar panel _______________ 18.0 to 22.0 Vdc 600 mA

*Measure voltage at panel and control box.*

12 V Battery ____________________ 12.5 to 13.5 Vdc
Charging circuit ________________ 13.8 to 14.8 Vdc

*Measure voltage at battery terminals with battery connected.*

Gate and Opener Maintenance:

1. Keep gates properly maintained. Grease hinges. Make sure gates remain level. Replace worn or damaged hardware. On gates over 250 lbs, grease ball bearing hinges at least 4 times annually (more if in a coastal area).

2. Service the gate opener regularly (make sure control box is OFF). Apply silicone spray to a soft, dry cloth and clean the push-pull tube at least once a month. Replace battery every 1–2 years.

Warranty Repair

If your E-Z 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 (page 24).

2. 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.

3. 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.

4. If repair or replacement of your gate opener is necessary, the Service Department will assign a Return Goods Authorization (RGA) number to you.

5. Once you have received your RGA# you are required to send in your original equipment for repair. Please refer to Manufacturers’ Limited Warranty for complete details. Securely pack the component(s) authorized for return to the factory. Include a copy of your sales receipt for the purchase of the product(s). Write the RGA number issued to you on the outside of the package in LARGE BOLD PRINT.

Ship the package(s) freight prepaid to: GTO, 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.

After the eighteen (18) month warranty expires, GTO, or one of its authorized service centers will perform necessary repairs for a nominal fee. Call GTO’s Technical Service Department.

GTO Technical Service and Installation Assistance

8:00am–7:00pm • Monday–Friday (EST)

Toll Free Support: 800-543-1236 • Local Support 1-850-575-4144 • Fax: 850/575-8950

Gates That Open, LLC
3121 Hartsfield Road, Tallahassee, Florida, USA 32303
www.mightymule.com