Installation Manual for the

DC-SERIES

GTO/PRO

2502/2550

Dual Automatic Gate Operators

⚠️ 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 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 operators are intended for use on vehicular gates only and should never be used by pedestrians.

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.
The GTO/PRO SW-2502 Gate Opener is intended for use with vehicular swing gates. The opener can be used in Class I, Class II, Class III and Class IV 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.

**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.

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### Conversion Chart

**Converting Metric Units to English Equivalents**

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<th>When You Know</th>
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<th>To Find</th>
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**Converting English Units to Metric Equivalents**

<table>
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<th>Multiply By</th>
<th>To Find</th>
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**Converting Temperature**

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<th>To Find</th>
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<tbody>
<tr>
<td>deg. Celsius</td>
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<td>deg. Fahrenheit</td>
<td>°F</td>
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<tr>
<td>deg. Fahrenheit</td>
<td>(°F-32) ÷ 1.8</td>
<td>deg. Celsius</td>
<td>°C</td>
</tr>
</tbody>
</table>

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**FOR YOUR RECORDS**

Please record the product serial number (located on the right hand side of the control box), 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.

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 GTO/PRO-SW2502 When correctly installed and properly used, your GTO/PRO-SW2502 Operator will give you many years of reliable service. Please read the following information to ensure you have the correct system for your particular needs. This manual will enable you to properly install your GTO/PRO-SW2502 Automatic Gate Operator.

The GTO/PRO-SW2502 Operator is designed for installation on pull-to-open gates (gates that open into the property). By purchasing an accessory bracket, the GTO/PRO-SW2502 Operator can accommodate push-to-open gates (gates that open out from the property). The gates must not exceed 16 feet in length (per leaf) nor weigh more than 500 pounds (per leaf) (please see Technical Specifications on page 10). The GTO/PRO-SW2502 Operator can be used on vinyl, aluminum, chain link, farm tube, and wrought iron gates. Use on solid (wood) gates is not recommended. Solid surface gates have a high resistance to the wind. If the wind is strong enough, the operator will obstruct and stop.

The GTO/PRO-SW2502 Operator accommodates extra transmitters, digital keypads, solar panels, push buttons, automatic gate locks, and other access control products. These optional accessories (see the enclosed GTO/PRO Accessory Catalog) are available.

The GTO/PRO-SW2502 Operator 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 GTO/PRO-SW2502 Operator 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 call GTO/PRO at (800) 543-GATE [4283] or (850) 575-0176 for more information about our GTO/PRO professional line of gate operators and accessories. Our Sales Department will be glad to give you the name and phone number of a GTO/PRO dealer near you.

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

- Swing gates longer than 16 feet or weighing more than 500 pounds;
- 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 videotape and read these instructions carefully and completely to become familiar with all parts and installation steps. The video tape is only designed as a 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.
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 symbol. The symbol identifies conditions that can result in damage to the opener or its components, serious injury, or death.

Because GTO/PRO 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:

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

Disconnecting the operator

1. Turn operator power switch OFF.
2. Remove hairpin clip, clevis pin, and bushing from the front mounting point.
3. Remove the operator from the mount.

The gate can be opened and closed manually when the operator is disconnected.

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

CAUTION: Because the GTO/PRO gate operator is battery powered, disconnect the operator ONLY when the power switch on the operator is turned OFF. Unplugging the transformer does not turn power to the operator OFF.

NOTE: Substitute a Pin Lock for the clevis pin on the front mount of each 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 dual opener is proper for the type and size of gate, its frequency of use and the proper class rating.

2. Make sure the dual 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.

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**Entrapment Zones for a Pull-To-Open Application**

ZONE 1

ZONE 2

ZONE 3

ZONE 4

ZONE 5

Gate in the Open Position

Driveway
**IMPORTANT SAFETY INSTRUCTIONS**

Entrapment Zones for a proper Pull-To-Open installation:
- Zone 1 – leading edge of the master and slave gates - Area between two 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, 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.

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**Pull-To-Open Application**

`Moving Gate Area`  
`Driveway`  

**NEVER INSTALL any control device within gray area**
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/PRO 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 the 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 GATES PROPERLY MAINTAINED. Always turn power to opener OFF before performing any maintenance. Clean the push-pull tube with a soft, dry cloth and apply silicone spray to it at least once per month.

7. Service the gate and gate opener regularly. Grease hinges, spray push/pull tube with high quality silicone spray and replace the battery every 3-5 years.

8. 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/PRO Service Department.

9. Disconnect the opener ONLY when the power is TURNED OFF and the gate is NOT moving.

10. Make arrangements with local fire and law enforcement for emergency access.

11. Distribute and discuss copies of the IMPORTANT SAFETY INSTRUCTIONS section of this manual with all persons authorized to use your gate.

12. 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 GTO/PRO web site (www.gtopro.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
Secondary Means of Protection Against Entrapment

As specified by Gate Operator 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 GTO/PRO utilizes Type A, an inherent (i.e., built-in) entrapment sensing system as the primary type of entrapment protection. Also, the GTO/PRO has provisions for the connection of Type B2 protection to be used as the secondary type of entrapment protection, if desired.

1. For gate operators 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 GTO/PRO gate operator 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.
**Important Safety Instructions**

**Required Safety Precautions for Gates**

**Install Warning Signs**

*Warning signs* alert people of automatic gate operation and are **required** when installing the GTO/PRO gate operator. 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.

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**Entrapment Protection**

GTO/PRO SW2502 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.

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**Warning Signs**

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

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**WARNING**

*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.
IMPORTANT SAFETY INSTRUCTIONS

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

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.

TO MANUALLY OPEN AND CLOSE THE GATE:
1. Turn control box power switch OFF.
2. Disconnect front or rear mount from gate bracket.
3. Pull opener away from front or rear mount.

Disconnect operator ONLY when the control box power switch is OFF and the gate is NOT moving.

GTO DC 2500 Series
Conforms to UL 325 Standards
Maximum Gate: 500 lb. (226.7 kg); 16 ft. (4.8 m)
Voltage: 12 Vdc; Frequency: 0 Hz; Power: 25 W
Class I, II, III and IV Vehicular Swing Gate Operator.
Serial Number: XXXXXXXXXX

Product identification and manual operation instruction label (1) installed on right hand side of the control box

Logo and warning labels (2) installed on each side of opener housing
Dual Gate Opener Parts List
Opener and Mounting Hardware

- Customer Support Card (1)
- 8" Nylon Cable Tie (20)
- Gate Opener Arm (1) w/ 6' Power Cable
- Gate Opener Arm (1) w/ 32' Power Cable
- Gate Bracket (2)
- Closed Position Stop Plate (2)
- Post Bracket (4)
- Post Pivot Bracket (2)

Hardware

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

- 3/8" Washer (18)
- 3/8" Lock Washer (14)
- 5/16" Washer (2)
- 3/8" Nut (14)
- 5/16" Nut (2)
- 3/8" Bushings (4)
Dual Gate Opener Parts List (continued)
Control Box and Electrical Components

Tools Needed
• Power Drill
• Open End Wrenches — 3/8", 7/16", 1/2", and 9/16"
• 3/8" Drill Bit
• Hacksaw or Heavy Duty Bolt Cutters
• Small (Flat Bladed) Screwdriver
• Phillips Screwdriver
• Tape Measure
• Level
• Wire Strippers
• C-Clamps — small, medium, and large
• Center Punch
• An extra person will be helpful

YOU MAY ALSO NEED THESE ITEMS BEFORE YOU BEGIN THE INSTALLATION
(Some of these items can be found in the Accessory Catalog page 39):
• Low voltage wire will be needed to run from the transformer to the control box; length depends upon the distance between the transformer power supply and the control box. See Powering the System on page 21, and the Accessory Catalog.

• PVC conduit.

• If your gate is more than 1000' away from an ac power source you will need to use at least 10 to 30 Watts of solar charging power to trickle charge the battery. See the Accessory Catalog.

• If your fence post is made of wood and is less than 6" in diameter or 6" square, see page 12.

• If your fence post is larger than 6" in diameter you will need threaded rods or carriage bolts longer than 8". See page 15.

• If you have thin walled tube or panel gates, see Recommended Reinforcement Examples on page 12.

• 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, step 2; page 15, step 10.

• Surge protection for transformer.

• Some types of installations require U-Bolts.

• If the gate is a push-to-open refer to page 32.

• Additional washer or a metal plate may be needed for wooden post.

• For Push-to-open applications, you'll need the push-to-open bracket 347 IH

• Low profile ground stop. See page 18, step 3.

Warning Signs (2)
Technical Specifications

GTO/PRO 2502 GATE OPERATOR

**DRIVE**

- Low friction screw drive (linear actuator) rated for -5 °F to +60 °F (-21 °C to +71 °C).
- Powered by a 12 V motor with integral case hardened steel gear reducer. Motor speed reduced to 260 rpm. Generates 680 ft. lb. of torque at 12 V.
- Maximum opening arc of 110°. Approximate opening time (90°): 30 seconds, depending on weight of gate.

**POWER**

- The system is powered by a 12 Vdc, 7.0 Ah, sealed, rechargeable lead acid battery.
- Battery charge is maintained by a 120 Vac input, 18 Vac output transformer rectified to 14.5 Vdc (40 VA) through the GTO/PRO control board. One (1) blade-style control board fuse is rated for 25 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.
- Battery charge is maintained by a GTO/PRO Solar Panel Charger: float voltage of 4.5 Vdc output is from a solar panel. Generates a minimum of 10 W at 600 mA. A gated diode on the control board prevents battery discharge.

**CONTROL**

- GTO/PRO microprocessor-based control board is set for single leaf, pull-to-open gate installations. DIP switches can be adjusted to accommodate an optional kit for push-to-open gates (see Accessory Catalog).
- Control board has temperature compensated circuits.
- A circuit on the control board regulates charging. "Sleep draw" is 20 mA; "active draw" is 2 to 5 A.
- Auto-memorization of digital transmitter code.
- GTO/PRO remote-mounted RF receiver tuned to 38 MHz.
- Opener length with push-pull tube fully retracted is 40 1/4", mounting point to mounting point. Push/pull tube extends 22".
- Adjustable auto-close timer, and obstruction sensitivity.
- Power terminal block accommodates a transformer or solar panels.
- DIP switches simplify setup of gate opener.
- Accessory terminal lock is fully compatible with push button controls, digital keypads, safety loops, etc.
- 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 GTO/PRO SW-2502 Automatic Gate Operator when powered with a transformer. Actual cycles may vary slightly depending upon the type and condition of gate and installation.

**GTO/PRO SW2502 Dual Gate Capacity / Cycle Chart**

<table>
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<tr>
<th>Gate Weight</th>
<th>500 lbs</th>
<th>400 lbs</th>
<th>300 lbs</th>
<th>200 lbs</th>
<th>150 lbs</th>
<th>100 lbs</th>
<th>50 lbs</th>
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<tr>
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<td>5' - 6'</td>
<td>8'</td>
<td>10'</td>
<td>12'</td>
<td>14'</td>
<td>16'</td>
<td></td>
</tr>
<tr>
<td>Number of Cycles Per Day</td>
<td>83</td>
<td>88</td>
<td>93</td>
<td>98</td>
<td>103</td>
<td>108</td>
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<td>88</td>
<td>93</td>
<td>98</td>
<td>103</td>
<td>108</td>
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To determine the number of cycles the gate opener will perform using solar panels, please see the specifications listed on page 21 or call (800) 543-1236 or (850) 575-4144 for more information.

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

These specifications are subject to change without notice.

IMPORTANT: BALL BEARING HINGES SHOULD BE USED ON ALL GATES WEIGHING OVER 250 Lbs.
Installation Overview
Pull-to-Open Gates (Gate Opens into the Property)

The diagram shown below is an example of a pull-to-open installation on a chain link fence and dual gates. Mounting the openers on a masonry column requires special procedures; see Column Installation Information on page 38 if you intend to mount the openers on columns. Furthermore, if you have push-to-open gates, you will need to purchase two (2) push-to-open brackets (see Accessory Catalog) to properly configure your system. See Push to Open Installation on page 32 before proceeding.

Preparation of the Gate

Step 1
The 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 arc without binding or dragging on the ground. Note that gates over 250 lb. should have ball bearing hinges with grease fittings.

Step 2
The fence posts must be secured in the ground with concrete so they will minimize twist or flex when the openers are activated. We recommend you position the openers near the centerline of the gates to keep the gates from twisting and flexing. The addition of horizontal or vertical cross members (if they are not already in place) to provide a stable area for mounting the gate brackets is also important.
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 (minimum 2 inches for safety reasons).

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.

On round posts of 6” diameter or larger, the post pivot bracket may not be necessary for the installation. In this instance, the two post brackets are mounted by themselves.

**IMPORTANT:**
We strongly recommend using steel pipe, 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 when the opener is installed.

**Recommended Reinforcement Examples**
Determining the Mounting Position of the Post Bracket Assembly and the Gate Bracket

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

**NOTE:** The following steps are intended for pull-to-open gate installations. If you are mounting your opener on a push-to-open gate (e.g., a gate on a sloped driveway) you will need to purchase a Push To Open bracket (see Accessory catalog). Also, see Push-to-Open Installation beginning on page 32.

**Step 4**
Attach post bracket assembly and gate bracket to the opener with the clevis pins and bushings. Secure the clevis pins with hairpin clips.

**Step 5**
With the gate in the open position (up to $110^\circ$ 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 2 inches of clearance between the gate and the opener in both the open and closed positions, as shown in the diagrams below. This clearance 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 6**
When you have achieved the required position for the post pivot bracket in the open position, insert the 5/16” x 1-3/4” 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 2 inches of clearance or the gate opener is binding on the post pivot bracket, remove the 5/16” x 1-3/4” bolt and readjust the pivot bracket until you can achieve these important clearances.

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.

**TIP**: Turning the pivot bracket over gives more hole alignment options for the post pivot bracket assembly. You can also move the entire post pivot bracket assembly to different positions on the gate post to help achieve the proper clearances.
Installing the Post Bracket Assembly and Gate

**Step 7**
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 8**
Drill $\frac{3}{8}$" holes into fence post as marked.

**Step 9**
Fasten post bracket assembly to the fence post using (4) $\frac{3}{8}$" x 8" bolts, washers, lock washers, and 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 10**
Mark reference points for bolt holes on the gate cross member through middle of gate bracket slots. Drill $\frac{3}{8}$" holes into the gate cross member as marked.

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

**Gate Bracket Mounting Examples**
**Mounting the Master Arm**

**Step 11**
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.

**Mounting the Slave Arm**

**Step 12**
Install the second opener on the remaining gate leaf by repeating Step 3 through Step 11, starting on page 13. After you have mounted the second opener, proceed to Installing the Positive Stops on the next page.
Installation of the Closed Position Stops

The GTO/PRO Gate Openers firmly hold the gates in the closed position using positive stops. The positive stops help stabilize the gate leaves in the closed position. To further enhance stability and security, we strongly recommended using an optional GTO/PRO Automatic Gate Lock (see Accessory Catalog) with your dual gate.

**IMPORTANT:** You need to 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 **MASTER** 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 **SLAVE** gate and gate opener.

**Step 1**
Attach the horizontal closed position stop plate to the **MASTER** gate leaf.

Detach the gate operators from the gates and move the gates to their closed position (*Illustration A*). Using appropriate hardware for your type of gate (U-bolts for tube or chain link; bolts for wood or metal) attach the **closed position stop plate** (horizontally) about mid height on the **MASTER** gate frame. **Do not** tighten it completely at this time. Slide the stop plate toward the frame of the **SLAVE** gate leaf until they touch (*Illustration B*). Once you have moved the stop plate to the correct position, tighten its hardware completely.

**NOTE:** The optional ground stop post is used to provide a secure point for the **SLAVE** gate to close against. If you will be using the GTO/PRO Horizontal Gate Lock accessory with your gate opener system, the closed position ground stop is **REQUIRED**, as shown in Steps 2 and 3 on the next page.
Step 2
Install a low profile ground stop (*not provided*) beneath the SLAVE gate stop plate.

The ground stop needs to be positioned near the end of the gate as shown in *Illustration A* and may be made of metal or concrete and should be firmly secured in the ground (we recommend setting it in concrete).

Step 3
Attach a vertical closed position stop plate to the SLAVE gate.

Using appropriate hardware for your type of gate attach the vertical *closed position stop plate* to the SLAVE gate frame at the point where it will come in contact with the ground stop post. **Do not** tighten it completely at this time. You must slide the closed position stop plate toward the *ground stop* until they touch (*Illustration C*). Once you have moved the stop plate to the correct position, tighten its hardware completely.

**NOTE:** For a push-to-open installation (gate opens *out* from the property) attach the closed position stop plate to the *outside* of the gate.

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**At this stage of the installation, the openers should be installed on the gate leaves and the open and closed position stops should be in place.**
Mounting the Control Box

Step 1
Mount the control box using the screws (provided) or another secure mounting method. The 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.

NOTE: The battery that came with your GTO/PRO® SW2502, MUST be placed in the top (horizontal) battery slot with the terminals on the RIGHT. The extra (vertical) battery slot is for an optional second battery. A second battery is recommended for solar and/or high traffic applications, if needed.

Step 2
Make sure the control box power switch is in the OFF position. The ON/OFF Switch is located on the bottom of the control box. Remove the control box cover and slide the battery into position with its terminals to the RIGHT (see illustration). Connect the BLACK battery wire to the NEGATIVE (–) battery terminal. Connect the RED battery wire to the POSITIVE (+) terminal. Pay close attention to the color of the wires. If the wires are connected incorrectly, the control board will be damaged. NEVER insert the battery with the terminals to the left.

Step 3
Strip approximately 3/16" of insulation from each wire of the power cable. Twist each exposed wire tightly (there are seven [7] wires inside the power cable sheath). Loosen sealing nut on strain relief hub at bottom of control box. Insert power cable into control box through strain relief. Thread approximately 6" of the power cable into the control box and retighten sealing nut until the power cable locks into place.
Connecting Opener Power Cables

MASTER Operator Arm

Step 4
Insert the stripped power cable wires into the appropriate terminals on the MASTER CABLE terminal block. The green wire should be inserted into the GRN terminal, the white wire into WHT, the blue wire into BLU, brown wire into BRN, the orange wire into ORG, the red wire into RED, and the black wire into the BLK terminal.

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

SLAVE Operator Arm

Step 5
Review the Installation Overview illustration on page 11 before proceeding.

Cut a slot into the driveway to accommodate PVC conduit (not provided). The buried conduit will protect the 40 foot power cable from automobile tires, lawn mower blades, weed eaters, and grazing animals. Pull the 40 foot second opener power cable through the conduit and secure them into the slot in the driveway.

Step 6
Strip approximately 3/16" of insulation from each wire of the 32 foot power cable. Twist each exposed wire tightly. Insert the slave arm power cable upward through the right strain relief (if necessary, loosen the sealing nut). Thread approximately 6 to 8" of wire into the control box. Retighten strain relief (on the black sheath of the power cable) until the power cable locks into place.

Insert the stripped wires of the power cable into the appropriate terminals on the SLAVE cable terminal block. The green wire should be inserted into the GRN terminal, the white wire into WHT, the blue wire into BLUE, brown wire into BRN, and the orange wire into the ORG terminal, red wire into RED, and black wire into BLK.

Tighten the set screws against the end of the wires.
Powering the System
Installation of the Transformer

**IMPORTANT:**

- The transformer is designed and intended for *indoor* 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.

- All low voltage wire used with the GTO/PRO® 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.**

- If your gate is more than 1000 ft. from an ac power source, you will need to use at least one 10 watt Solar Panel to charge the battery (*see Accessory Catalog*). Refer to the *Solar Panels and Gate Activity* chart below.

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### OPTIONAL Solar Panels and Gate Activity

The table and map illustrate the maximum number of gate cycles to expect per day in a particular area when using from 0 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.*

**NOTE:** A maximum of 30 watts of solar charging power can be connected to the GTO/PRO® Gate Opener. Consult Solar Panel Installation Instructions for further information.

<table>
<thead>
<tr>
<th>Winter Ratings</th>
<th>Zone 1</th>
<th>Zone 2</th>
<th>Zone 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 v dual gate (10 watts) solar charger</td>
<td>4</td>
<td>8</td>
<td>13</td>
</tr>
<tr>
<td>12 v dual gate (15 watts) solar charger</td>
<td>7</td>
<td>13</td>
<td>20</td>
</tr>
<tr>
<td>12 v dual gate (20 watts) solar charger</td>
<td>10</td>
<td>18</td>
<td>27</td>
</tr>
<tr>
<td>12 v dual gate (25 watts) solar charger</td>
<td>13</td>
<td>23</td>
<td>34</td>
</tr>
<tr>
<td>12 v dual gate (30 watts) solar charger</td>
<td>16</td>
<td>28</td>
<td>41</td>
</tr>
</tbody>
</table>

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**Step 1**
Make sure the power switch is **OFF** before proceeding to the next step.

**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. After you have measured how much wire is needed, cut the wire to the appropriate length.
**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. Telephone wire and solid core wire do not deliver enough voltage for your gate opener to function and will cause the system to go into a condition known as "low voltage lockout."

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

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**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.

**Step 4**

Feed the low voltage wires upward through the strain relief opening on the lower left of the control box. Pull 6" to 8" of wire into the control box and tighten the strain relief screw to secure the wires.

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**WARNING! DO NOT PLUG THE TRANSFORMER INTO AN OUTLET DURING THIS STEP! THE TRANSFORMER MUST ONLY BE PLUGGED INTO AN OUTLET DURING STEP 7!**

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**Step 5**

Strip 3/16" off the ends of the low voltage wire and twist tightly. Attach these ends to the **18 VOLT TRANSFORMER OR SOLAR** terminals located on the **POWER INPUT** terminal block (see illustration at right). Be certain not to let the exposed wires touch each other!

Insert one transformer wire into an **18 VOLT TRANSFORMER OR SOLAR** terminal.

Insert the other transformer wire into the remaining **18 VOLT TRANSFORMER OR SOLAR** terminal. The transformer wires can be connected to the **18 VOLT TRANSFORMER OR SOLAR** terminals regardless of polarity or color.

Tighten set screws against exposed end of wires. A dab of household petroleum jelly on each terminal will help prevent corrosion.
Step 6
Strip $\frac{1}{2}\text{"}$ 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.

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.)

**HINT:** Keep a few mothballs in the control box to discourage insects from entering it and damaging the control board.
CONTROL BOARD SETTINGS

DIP Switches

NOTE: Leave DIP Switch #3 in the OFF position until installation is complete, to prevent gate from automatically closing during installation.

Main DIP Switch Settings (MODES)

DIP Switch #1 - Soft Start/Stop
- ON - Soft start enabled (factory preset).
- OFF - Soft start disabled.
The Soft Start/Stop feature slowly starts the gate as it begins to open and slows the gate as it comes to the closed position. This saves wear and tear on the gate and gate opener system.

DIP Switch #2 - Warning Buzzer
- ON - Buzzer warning enabled (factory preset).
- OFF - Buzzer warning disabled.
The Warning Buzzer alerts you when the gate opener is beginning to either open or close the gate. It sounds for the first 2 seconds in each direction. It also sounds a warning when the gate obstructs two times in one cycle. Switching this to OFF only disables the open and close warning not the obstruction warning.

DIP Switch #3 - Push/Pull-to-Open
- ON - Push to open.
- OFF - Pull to open (factory preset).
If your gate opens into the property the DIP Switch is set to the OFF position (factory setting). If your gate opens out from the property the DIP Switch must be set to the ON position. NOTE: if you have a Push-to-Open gate application you will need a Push-to-Open bracket (see Push-to-Open Instructions on page 32).

DIP Switch #4 - Delay/Simultaneous operation
- ON - Slave opens simultaneously with master.
- OFF - Slave opens after master.
NOTE: Not applicable for single gate operator.

Auto Close

The 'AUTO CLOSE TIME' pot controls auto close feature.
Turning the pot all the way counter-clockwise will turn auto close feature off. The minimum auto close time is 3 seconds. The maximum (turn the pot all the way clockwise) auto close time is 120 seconds.

Auto Close Time Pot
Setting the Closed Position Limits for Pull to Open Applications

TURN CONTROL BOX ON

Your GTO/PRO® 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: (Gate in the CLOSED POSITION) To achieve optimum closed position, you are required to complete the following SEVEN STEPS:

*NOTE: The stall force may need to be adjusted in order to set the limits. See page 27.*

**Step 1**
Confirm that the power switch is in the ON position, and the gates are in the OPEN POSITIONS.

**Step 2**
Activate your openers by pressing the entry transmitter button. Your gates should now be moving from the fully open positions toward their closing position. Prepare to STOP gate that reaches the desired closed position first by pressing the entry transmitter button again. This step may be repeated until desired close position is achieved. Once the desired CLOSED position has been achieved, proceed to step 3.

**Step 3**
Note which gate has reached the desired closed position (typically it's the slave gate), program the closed limit setting by pressing and holding the corresponding 'LEARN MAST LIMIT' or 'LEARN SLV LIMIT' for 5 seconds.

**Step 4**
Press the transmitter button and allow the gates to return to the fully open position. YOUR FIRST GATE'S CLOSED POSITION LIMIT IS NOW PROGRAMMED.

**Step 5**
Activate your openers again by pressing the entry transmitter button. Your gates should now be moving from the fully open positions toward their closing position. The first gate will stop at the spot you just programmed and the second gate will continue to close until you press the transmitter button again. The optimum CLOSED POSITION for the second gate is when it closes firmly, without excess tension, against the first gate. This step may be repeated until desired close position is achieved. Once the desired CLOSED position has been achieved, proceed to step 6.

**Step 6**
Repeat step 3 for the other gate that has not been set in step 3.

**Step 7**
Press the transmitter button and allow the gates to return to the fully open position. BOTH YOUR MASTER AND SLAVE GATE’S CLOSED POSITION LIMITS ARE NOW PROGRAMMED.
TESTING YOUR CLOSED LIMIT SETTING:
Press your entry transmitter and allow your gates to close. If CLOSED positions are not correct or need to be changed, you will need to CLEAR your CLOSED LIMIT settings and follow Steps 1-7 again.

CLEARING PROGRAMMED CLOSED LIMIT SETTING:
If you make a mistake and set the limit at the wrong position – press your transmitter to return the gates to their fully opened positions, then press and hold the 'LEARN MAST LIMIT' or 'LEARN SLV LIMIT' button for 5 seconds. This will clear the memory for the closed limit positions of the master arm or slave arm. Follow Steps 1-7 again.

Setting Your Personal Transmitter Code
All GTO transmitters are set to a standard code at the factory and are ready to operate your GTO/PRO® 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 front cover.

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

3. “Teach” the New Code to Control Board Memory
A. Press and hold transmitter button.
B. Press and hold the LEARN RMT (Learn Remote) button on the control board until the buzzer sounds.
C. Release transmitter button. The new code is stored in control board memory.
D. Release the LEARN RMT (Learn Remote) button.
Stall Force Potentiometer

IMPORTANT: For safety reasons the obstruction setting or Stall Force on the GTO/PRO® 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.

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

Installing the Receiver

Use the transmitter to check the range of the receiver before permanently mounting it.

Consider the following when mounting the receiver:

- Standard receiver cable length is 10 feet (receivers with a longer cable are available as special order items; call the GTO Sales Department). NEVER splice receiver cable!
- Run the cable through PVC conduit to protect it from damage.
- DO NOT run cable through metal conduit because the receiver signal range will be decreased.
- DO NOT run cable in conduit containing ac wiring.
- DO NOT mount receiver on a metal fence or post; doing so will decrease signal range.
- The receiver range can vary from 50 to 100 feet depending upon weather, topography, and external interference.
- DO NOT mount upside down.
- MOUNT so that you have line of sight between remote and antenna.
- MOUNT 3 feet away from AC voltage.
- MOUNT as high as possible for optimum range.

FCC Regulation

This device complies with FCC rules Part 15. Operation is subject to the following conditions:
1. This device may not cause harmful interference.
2. This device must accept an interference that may cause undesired operation.

Transmitter distance may vary due to circumstances beyond our control. NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.
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.

The GTO/PRO® SW2502 will ONLY accept accessory devices with normally open dry contact output.

Contact Sensors (safety edges)

If not installing a contact sensor skip to next section.

PLEASE NOTE: Contact sensors are not included with the GTO/PRO® SW2502.

The GTO/PRO® 2502 is equipped with built-in obstruction sensitivity. The opener is designed to stop and reverse the gate within 2 seconds when it comes in contact with an obstruction. However, obstruction sensitivity, although functioning properly, may not be sensitive enough to prevent bodily injury in some circumstances. To augment your protection against entrapment, GTO recommends using some form of additional safety device. When installed, contact sensors must be mounted in compliance with UL 325, Underwriters Laboratories safety standard for gate openers. Review page 5 for information about mounting requirements for safety edges ("contact sensors").

Refer to the sensor manufacturer’s instructions for information about installing these devices on a vehicular gate.

Make sure the power switch 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.

Contact Sensor Input Connection:
Connect one of the OPEN EDGE contact sensor wires to the COMMON (COM) terminal and the other to the OPEN EDGE terminal on the GTO/PRO® SW2502 control board.

Connect one of the CLOSE EDGE contact sensor wires to the COMMON (COM) terminal and the other to the CLOSE EDGE terminal on the GTO/PRO® SW2502 control board.

Activation of a contact sensor while the gate is in motion will cause the gate to stop and reverse within two (2) seconds.

NOTE: If the close edge is contacted when the gate is opening, nothing happens. If the close edge is contacted when the gate is closing, then it reverses. If the open edge is contacted when the gate is closing, nothing happens. If the open edge is contacted when the gate is opening, then it reverses.
Non-Contact Sensors (photo beams/loop detectors)

If not installing a non-contact sensor skip to next section.

PLEASE NOTE: Non-contact sensors are not included with the GTO/PRO® SW2502.

The GTO/PRO® SW2502 can also accept "Safety" input from normally open "dry-contact" output devices such as safety beams or loop detectors connected to the SAFETY input terminal.

Refer to the sensor manufacturer’s instructions for information about installing these devices on a vehicular gate.

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.

Non-Contact Sensor Connection:
Connect one of the non-contact sensor dry contact output wires to the COMMON (COM) terminal and the other to the SAFETY terminal on the GTO/PRO® SW2502 control board.

This input is ONLY monitored when the gate is closing. Activating the non-contact sensor (obstructing the safety beam path) will cause the gate to reverse to the fully open position. The gate will remain open as long as the contact is held.

Shadow Loop

If not installing a shadow loop skip to next section.

PLEASE NOTE: Non-contact sensors are not included with the GTO/PRO® SW2502.

The GTO/PRO® SW2502 can accept "Shadow Loop" input from Loop Detector that provides normally open "dry-contact" connected to "Shadow" input terminal.

Refer to the sensor manufacturer’s instructions for information about installing these devices on a vehicular gate.

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.

Shadow Loop Connection:
Connect the COM wire from the Loop Detector to the COMMON (COM) terminal and the Normally open Wire from the Loop Detector to the SHADOW terminal on the GTO/PRO® SW2502 control board.

The SHADOW LOOP is a detector located with the moving path of the gate to prevent the gate from closing when a vehicle is in the path.

This input is ONLY monitored when the gate is at the fully open position. Activating this will prevent the gate from closing.
Connecting Accessories

If not connecting accessories skip to next section.

The GTO/PRO® SW2502 can accept NORMALLY OPEN, DRY-CONTACT accessories, such as; Push Button Entry Devices and Key Pads.

Refer to the sensor manufacturer’s instructions for information about installing these devices on a vehicular gate.

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

Accessory Input Connection:
Connect one of the accessory wires to the COMMON (COM) terminal and the other to the CYCLE terminal on the GTO/PRO® SW2502 control board.

Each activation of the accessory will cause the gate to cycle as follows:

$$\text{OPEN} \rightarrow \text{STOP} \rightarrow \text{CLOSE} \rightarrow \text{STOP}$$

Free Exit Input

The GTO/PRO® SW2502 can accept NORMALLY OPEN, DRY-CONTACT free exit/entry devices such as GTO Wand and Loop Detector.

Refer to the sensor manufacturer’s instructions for information about installing these devices on a vehicular gate.

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

Free Exit Connection:
Connect the Exit Wand BLK wire to the COMMON (COM) terminal and the Exit Wand BLU wire to the EXIT terminal on the GTO/PRO® SW2502 control board.

Activation of this input will cause the gate to open to the fully opened position. As long as contact is held, gate will remain open.
Connecting GTO Automatic Gate Lock

If not connecting gate lock skip to next section.

GTO Lock:
For use exclusively with GTO Lock (FM143 or FM144). Connecting other devices to these terminals may cause incorrect operation and void your warranty.

GTO Lock Connection:
Connect the red and black leads from the lock to the GTO LOCK terminal on the GTO/PRO® SW2502 control board. You do not use the lock’s control board when using GTO’s board.

Aux:
- These 2 terminals are normally open 'dry-contact' (no voltage) relay output.
- These 2 terminals are ON (shorted) whenever the gate is moving and OFF (opened) otherwise.
- These 2 terminals maximum rating is 24Vdc, 1 Amp.
Push to Open Installation

Determining The Mounting Position of The Post Bracket Assembly

⚠ Swinging gates shall not open into public access areas!

A "Push-to-Open" gate opens out from the property.
A Push-to-Open Bracket is required for this type of installation (see Accessory Catalog). If you have a pull-to-open gate (gate opens into the property), return to page 13; step 3.

In a PUSH-TO-OPEN installation the openers are installed while the gates are in the closed position.

**Step 1**
With the gates closed, adjust the post bracket assembly and the 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. For details refer to page 13.

IMPORTANT: While determining the mounting point for the post pivot bracket assembly be sure that the position allows for maximum clearance between the gate and the opener in both the open and closed positions, as shown in the diagrams below. This clearance 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 2**
After verifying that you have the best position for the post pivot bracket, insert the 5/16" x 1 3/4" bolt through the aligned holes of the post bracket and post pivot bracket and fasten it with the 5/16" washer and nut.

IMPORTANT: If you loosened the clamp on the post bracket to achieve the optimum position, tighten it in its new position and recheck the gate bracket with the gate in the open position (move the gate bracket and re-clamp it if necessary).
**Step 3**
With the gate in the **fully closed position** and the opener retracted, swing the opener to the gate. Mark reference points for bolt holes on gate cross member through middle of gate bracket slots. The opener must be level. (Some vertical adjustment is possible by sliding the post bracket assembly up and down.) Drill $\frac{3}{8}$" holes into the gate cross member as marked. Fasten gate bracket to cross member using (2) $\frac{3}{8}$" x 3" bolts, washers, lock washers, and nuts. Attach the opener to the post bracket assembly and gate bracket using clevis pins, bushings, and hairpins clips.

**Step 4**
Make sure the control box power switch is **OFF**. Use a small screwdriver to move the **Number 3 DIP switch** from the factory setting (OFF / Pull-To-Open) to **ON for Push-To-Open**. Turn power switch **ON**. The control board is now configured to *push* the gate open.

**Step 5**
Install the slave opener on the other gate in the same manner. Then refer to the CONTROL BOARD SETTINGS on page 24 for gate sequencing and other programming steps before proceeding.

---

**Setting the Open Position Limit**

**Step 1**
Confirm that the power switch is in the **ON** position, and the gates are in the CLOSED POSITIONS.

**Step 2**
Activate your openers by pressing the entry transmitter button. Your gates should now be moving from the closed positions toward their open position. Prepare to STOP gates by pressing the entry transmitter button again when the first gate reaches the desired open position. This step may be repeated until desired open position is achieved. Once the desired OPEN position has been achieved, proceed to step 3.
Step 3
Note which gate has reached the desired closed position (typically it’s the slave gate), program the closed limit setting by pressing and holding the corresponding 'LEARN MAST LIMIT' or 'LEARN SLV LIMIT' button for 5 seconds.

Step 4
Press the transmitter button and allow the gates to return to the closed position. YOUR FIRST GATE’S OPEN POSITION LIMIT IS NOW PROGRAMMED.

Step 5
Activate your openers again by pressing the entry transmitter button. Your gates should now be moving from the closed positions toward their open positions. The first gate will stop at the spot you just programmed and the second gate will continue to open until you press the transmitter button again. Press the transmitter button when the second gate reaches the desired open position. This step may be repeated until desired open position is achieved. Once the desired OPEN position has been achieved, proceed to step 6.

Step 6
Repeat step 3 for the other gate that has not been set in step 3.

Step 7
Press the transmitter button and allow the gates to return to the closed position. BOTH YOUR MASTER AND SLAVE GATE’S OPEN POSITION LIMITS ARE NOW PROGRAMMED.

TESTING YOUR OPEN LIMIT SETTING:
Press your entry transmitter and allow your gates to open. If OPEN positions are not correct or need to be changed, you will need to CLEAR your OPEN LIMIT settings and follow steps one (1) to seven (7) again.

CLEARING THE PROGRAMMED OPEN LIMIT SETTING:
If you make a mistake and set the limit at the wrong position – press your transmitter to return the gates to their closed positions, then press and hold the 'LEARN MAST LIMIT' or 'LEARN SLV LIMIT' button for 5 seconds. This will clear the memory for the open limit positions. Follow steps one (1) to seven (7) again.

Repair Service
If your GTO/PRO SW-2502 Gate Opener is not operating properly, please follow the steps below:
1. First use the procedures found in the Troubleshooting Guide (see page 35).

2. If you are unable to solve the problem, call the GTO/PRO Service Department at (800) 543-1236, or (850) 575-4144. Refer to the serial number (located on the control box cover) and date of purchase when calling for assistance.

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

4. 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. Ship the package(s) freight prepaid to:
GTO/PRO, 3121 Hartsfield Road, Tallahassee, Florida, USA 32303.

NOTE: Products returned to GTO/PRO 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/PRO freight collect WILL NOT be accepted.

The GTO, Inc. Technical Service Department is open Monday – Friday 8:00 A.M. – 7:00 P.M. (Eastern Time) 1-800-543-1236 • FAX (850)575-8950 e-mail: techsupport@gtoinc.com
# Troubleshooting Guide

If your gate opener does not function properly after it is installed, use this guide before calling the GTO Service Department.

## Audible Feedback

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Diagnosis</th>
<th>Check:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 short beep upon activation</td>
<td>Blown Fuse</td>
<td>Fuse</td>
</tr>
<tr>
<td></td>
<td>Low or Bad Battery</td>
<td>Battery Under Load</td>
</tr>
<tr>
<td></td>
<td>Loose Battery Connection</td>
<td>Battery Harness Connections</td>
</tr>
<tr>
<td>1 short beep upon power up</td>
<td>Circuit Board Powered Up &amp; Ready</td>
<td>Normal Operation</td>
</tr>
<tr>
<td>Continuous</td>
<td>Circuit Board Senses an Obstruction</td>
<td>Path of Gate</td>
</tr>
<tr>
<td>Uninterrupted Alarm</td>
<td></td>
<td>Gate for Level and Plumb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stall Force Adjustment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Disconnect Safety Devices</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rev Counter</td>
</tr>
<tr>
<td>1 beep with 10 seconds off</td>
<td>Low Battery Condition</td>
<td>Fuses</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Battery Harness Connections</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Battery Under Load</td>
</tr>
<tr>
<td>1 beep then 2 beeps</td>
<td>Master Motor Terminals Shorted</td>
<td>• Connections to Master Inputs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Master Arm Power Cable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Motor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Circuit Board</td>
</tr>
<tr>
<td>1 beep then 3 beeps</td>
<td>Slave Motor Terminals Shorted</td>
<td>• Connections to Master Inputs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Master Arm Power Cable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Motor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Circuit Board</td>
</tr>
<tr>
<td>1 beep with 2 seconds off</td>
<td>Master Arm Limit Switch Error</td>
<td>• Connections to Master Inputs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Master Arm Power Cable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Master Input ORG &amp; GRN, BRN &amp; GRN voltage</td>
</tr>
<tr>
<td></td>
<td></td>
<td>with wires disconnected. 11VDC across each</td>
</tr>
<tr>
<td></td>
<td></td>
<td>terminal.</td>
</tr>
<tr>
<td>2 beeps with 2 seconds off</td>
<td>Slave Arm Limit Switch Error</td>
<td>• Connections to Slave Inputs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Slave Arm Power Cable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Slave Input ORG &amp; GRN, BRN &amp; GRN voltage</td>
</tr>
<tr>
<td></td>
<td></td>
<td>with wires disconnected. 11VDC each across</td>
</tr>
<tr>
<td></td>
<td></td>
<td>terminal.</td>
</tr>
<tr>
<td>3 beeps with 2 seconds off</td>
<td>Master Arm Rev Counter Error</td>
<td>• Connections to Master Inputs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Master Arm Power Cable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Rev Counter</td>
</tr>
<tr>
<td>4 beeps with 2 seconds off</td>
<td>Slave Arm Rev Counter Error</td>
<td>• Connections to Master Inputs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Master Arm Power Cable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Rev Counter</td>
</tr>
</tbody>
</table>
## Visual Feedback

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Diagnosis</th>
<th>Check:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status (clear) 1 blink</td>
<td>Cycle Terminal Shorted</td>
<td>Disconnect the push button, keypad, intercom keypad, or any other accessory wired to this terminal. Try the remote. If the remote works, then the problem is the accessory.</td>
</tr>
<tr>
<td>Status (clear) 2 blinks</td>
<td>Safety Terminal Shorted</td>
<td>Disconnect the loop detector, photo beam, or any other accessory wired to this terminal. Try the remote. If the remote works, the problem is the accessory.</td>
</tr>
<tr>
<td>Status (clear) 3 blinks</td>
<td>Exit Terminal Shorted</td>
<td>Disconnect exit wand, loop detector, photo beam, Knox box, or any other accessory wired to this terminal. Try the remote. If the remote works, the problem is the accessory.</td>
</tr>
<tr>
<td>Status (clear) 4 blinks</td>
<td>Shadow Terminal Shorted</td>
<td>Disconnect the loop detector, photo beam, or any other accessory wired to this terminal. Try the remote. If the remote works, the problem is the accessory.</td>
</tr>
<tr>
<td>Status (clear) 5 blinks</td>
<td>Close Edge Terminal Shorted</td>
<td>Disconnect the edge sensor, photo beam, or any other accessory wired to this terminal. Try the remote. If the remote works, the problem is the accessory.</td>
</tr>
<tr>
<td>Status (clear) 6 blinks</td>
<td>Open Edge Terminal Shorted</td>
<td>Disconnect edge sensor, photo beam, or any other accessory wired to this terminal. Try the remote. If the remote works, the problem is the accessory.</td>
</tr>
<tr>
<td>RF (yellow) Flickers</td>
<td>Receiving 318 MHz RF</td>
<td>Normal operation when remote or wireless keypad is used.</td>
</tr>
</tbody>
</table>
| RF (yellow) OFF                | No 318 MHz RF Received    | • Battery in Remote  
|                                |                           | • Program Remote  
|                                |                           | • Antenna Receiver Connections  
|                                |                           | • Antenna Receiver |
| Power (green) ON               | AC or Solar Power Present | Normal Operation                                                        |
| Power (green) OFF              | No AC or Solar Power      | **Transformer:**  
|                                |                           | • Breaker or GFI  
|                                |                           | • Power at AC outlet.  
|                                |                           | • Output of Transformer.  
|                                |                           | • Voltage on wire at 18 VAC Input  
|                                |                           | **Solar:**  
|                                |                           | • Solar Panel Wires Reversed  
|                                |                           | • Weather  
|                                |                           | • Solar Panel Placement  
|                                |                           | • Output of Solar Panel  
|                                |                           | • Voltage on wire at Solar Input  
| Charge (red) ON                | Fast Charging Mode        | Battery Voltage should be ~14.8 VDC when connected to the circuit board |
| Charge (red) Fast Blinking     | Soak Charging Mode        | Battery Voltage should be ~14.1 VDC when connected to the circuit board |
| Charge (red) Slow Blinking     | Float Charge              | Battery Voltage should be ~13.8 VDC when connected to the circuit board |
| Charge (red) OFF               | Battery Not Being Charged | AC power  
|                                |                           | Transformer  
|                                |                           | Solar Panel  
|                                |                           | Charging Circuit |

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Column Installation Information

If this opener will be used with gates that are mounted on masonry, brick, or rock (etc.) columns:

Read the following carefully before proceeding

A. The simplest solution is to install the opener in a push-to-open configuration (requires Push-To-Open Bracket, see Accessory Catalog). The minimum clearance is easier to achieve and clearance is no longer a problem, since the opener will be pushing the gate away from the column instead of pulling it toward the column. It is recommended that you place a steel plate between the opener mounting brackets and masonry surface for additional strength.

B. If a push-to-open installation is impossible due to traffic hazards, terrain, etc., another option is to re-hang the gate. You may hang it on a post, either in the center of the column or at the back corner, or move the gate to the back corner of the columns.

C. The most difficult solution is to cut a notch in the column to accommodate the opener and power cable. This job is not for the inexperienced!

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

Telephone (800) 543-1236
Telephone (850) 575-4144

Fax (850) 575-8950 • Web site: www.gtopro.com
E-Mail: techsupport@gtoinc.com
Solar Panel (FM123), (FM122)
The Solar Panel is a 10 watt solar powered battery charger for use with the all GTO/PRO DC gate operator systems. 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 GTO/PRO® 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. Solar Panel (FM122) is a 5 watt solar powered battery charger with all the same features as (FM123).

Push Button Control (RB101)
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  (FM345)
The Pin Lock substitutes for the clevis pin at the front end of the GTO/PRO® 2000XL gate operator. Helps prevent theft of the operator from the gate, while allowing quick release of the operator.

Key Chain Two Button Transmitter (RB742)
The Key Chain Mini Transmitter is a miniature version of the GTO/PRO® entry transmitter and has the same adjustable code settings. Used for remote control of multiple separate gate operators, and/or garage door operator(s) (see Garage Door Receiver). 9 Volt battery included. 12 Volt battery included.

Single Button Transmitter (RB741)
The GTO/PRO® entry transmitter, with adjustable code settings, is standard equipment with all GTO/PRO® systems. 12 Volt battery included.

Digital Keypad (F310)
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).

GTO/PRO 50' Exit Wand (FM139), 100' Exit Wand (FM140), 150' Exit Wand (FM141)
The GTO/PRO® Exit Wand is designed for residential and agricultural applications and is compatible with all GTO/PRO® automatic gate operator models. The wand is an electromagnetic sensor, which offers 'hands free' operation of the GTO/PRO® Gate Operators with a 2 ft. radius of detection of vehicles in motion.

Automatic Gate Lock Pull-to-Open (FM144)
A MUST for added security. Solenoid driven, with a steel housing. Unlocks and locks automatically as gates open and close. Used with GTO/PRO® 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.

Wireless Entry Intercom / Keypad (F3100MBC)
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 of temporary. Can be wireless up to 500 feet or hard wired up to 1000 feet.
Accessories

Replacement Battery (RB500)
Standard 12 volt, 7.0 amp-hour, maintenance-free battery for the GTO/PRO® 2500, GTO/PRO® 2000XL, GTO/PRO® 3000, GTO/PRO® 4000 gate operator systems. This is the only battery approved for use with the GTO/PRO® gate operator systems. Life expectancy is 3-5 years.

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.

Push to Open Bracket (347 IH)
Required when GTO/PRO® 2000XL gate operator(s) must push the gate open, such as on a sloping driveway or where space prevents gate(s) from opening inward (pulled open). Order two PTO brackets for conversion of a dual swing gate installation.

Column Mount Lock Receiver (433IH)
For mounting the Automatic Gate Lock on brick columns, walls, or for other applications with limited space between gate and post.

Replacement Transformer (RB570)
Standard 8 volt AC transformer for maintaining the battery included with the GTO/PRO® 3200 gate operator. This is the only transformer approved for use with all UL325 GTO/PRO® gate operator systems.

Garage Door Receiver (RB709)
The Garage Door Receiver allows you to use the same GTO/PRO® entry transmitter (see Dual and Triple Transmitters) to operate your gate operator and your garage door operator. Compatible with most garage door operators.

If you have a question about GTO/PRO® accessories just call 1-800-543-GATE!