CHAMBERLAIN®

LiftMaster®

PROFESSIONAL

INSTALLATION/OPERATION MANUAL

MODEL LA400

MEDIUM DUTY SWING GATE OPERATOR

Radio Receiver
Built on Board

315MHz

2 YEAR WARRANTY

Serial # Primary Arm ____________________________
Serial # Secondary Arm ____________________________
Serial # Control Box ____________________________
Installation Date ____________________________

UL US
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INTRODUCTION

⚠️ WARNING

Mechanical

⚠️ WARNING

Electrical

When you see these Safety Symbols and Signal Words on the following pages, they will alert you to the possibility of serious injury or death if you do not comply with the warnings that accompany them. The hazard may come from something mechanical or from electric shock. Read the warnings carefully.

When you see this Signal Word on the following pages, it will alert you to the possibility of damage to your gate and/or the gate operator if you do not comply with the cautionary statements that accompany it. Read them carefully.

IMPORTANT NOTE

• BEFORE attempting to install, operate or maintain the operator, you must read and fully understand this manual and follow all safety instructions.

• DO NOT attempt repair or service of your commercial door and gate operator unless you are an Authorized Service Technician.

TOOLS NEEDED FOR INSTALLATION

During assembly, installation and adjustment of the operator the tools listed below will be needed.

• Wrench or Socket Set
• Phillips Head Screwdriver
• C Clamps
• Level
• Small Screwdriver
• T25 Torx Head Screwdriver
Carton Inventory

HARDWARE KIT

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post Bracket</td>
<td>1</td>
</tr>
<tr>
<td>Pull to Open Bracket</td>
<td>1</td>
</tr>
<tr>
<td>Hex Bolt 5/16”-18 X 1-1/2”</td>
<td>5</td>
</tr>
<tr>
<td>Square Neck Carriage Bolt 3/8”-16 X 6”</td>
<td>2</td>
</tr>
<tr>
<td>Hex Nut 3/8”-16</td>
<td>2</td>
</tr>
<tr>
<td>Hex Nut 5/16”-18</td>
<td>5</td>
</tr>
<tr>
<td>Flat Washer 5/16”</td>
<td>5</td>
</tr>
<tr>
<td>Flat Washer 3/8”</td>
<td>5</td>
</tr>
<tr>
<td>Lock Washer 5/16”</td>
<td>5</td>
</tr>
<tr>
<td>Lock Washer 3/8”</td>
<td>5</td>
</tr>
<tr>
<td>Gate Mounting Bracket</td>
<td>1</td>
</tr>
<tr>
<td>Hairpin Clip</td>
<td>4</td>
</tr>
<tr>
<td>Pin</td>
<td>2</td>
</tr>
<tr>
<td>Hex Bolt 3/8”-16 X 1-1/2”</td>
<td>1</td>
</tr>
<tr>
<td>Bolt 2-3/4”</td>
<td>2</td>
</tr>
</tbody>
</table>

CONTROL BOX LA400 - CONT

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Box</td>
<td>1</td>
</tr>
<tr>
<td>Hardware Bag</td>
<td>1</td>
</tr>
</tbody>
</table>

MISCELLANEOUS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linear Actuator Arm</td>
<td></td>
</tr>
<tr>
<td>Motor Cable - Six Conductor</td>
<td>9’  (2.7 m)</td>
</tr>
<tr>
<td>Warning Sign</td>
<td>2</td>
</tr>
<tr>
<td>Battery</td>
<td>2</td>
</tr>
<tr>
<td>Plug-In Transformer</td>
<td>1</td>
</tr>
</tbody>
</table>

LA400-S (SECOND LINEAR ACTUATOR ARM)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension Cable - Six Conductor</td>
<td>40’ (12.2 m)</td>
</tr>
<tr>
<td>Junction Box - IP56</td>
<td>1</td>
</tr>
<tr>
<td>Phillips Head Mounting Screws</td>
<td>4</td>
</tr>
<tr>
<td>Anchors</td>
<td>4</td>
</tr>
<tr>
<td>Terminal Block - Twelve Connectors</td>
<td>1</td>
</tr>
</tbody>
</table>

NOTE: Carton inventory is based on a Single Operator. For Primary (Gate 1) and Secondary (Gate 2) installation the carton inventory is doubled except for control box.

Additional Items Needed for Installation

<table>
<thead>
<tr>
<th>Power Wire: 120Vac (Stranded Copper Wire)</th>
<th>Power Wire: 24Vac Transformer (Stranded Copper Wire)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Gauge</td>
<td>Length</td>
</tr>
<tr>
<td>16</td>
<td>100’ (30 m)</td>
</tr>
<tr>
<td>10</td>
<td>1000’ (305 m)</td>
</tr>
</tbody>
</table>

Operator Dimensions and Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Cycles</td>
<td>100 per day</td>
</tr>
<tr>
<td>Main Supply (Motor)</td>
<td>24Vdc</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>2A</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>48 Watts</td>
</tr>
<tr>
<td>Battery Charger Supply</td>
<td>26Vac, 29VA or 36Vdc, 40VA</td>
</tr>
<tr>
<td>Solar Panel Supply (Optional)</td>
<td>See Accessories</td>
</tr>
<tr>
<td>Maximum Gate Width</td>
<td>16 ft. (4.9 m)</td>
</tr>
<tr>
<td>Maximum Gate Weight</td>
<td>550 Lbs. (249.5 kg)</td>
</tr>
<tr>
<td>Protection Class</td>
<td>NEMA 3R</td>
</tr>
<tr>
<td>Travel Speed</td>
<td>14-18 seconds for a 90 degree opening</td>
</tr>
<tr>
<td>Rated Operating Time</td>
<td>4 Minutes</td>
</tr>
<tr>
<td>Temperature</td>
<td>-20˚C to + 50˚C</td>
</tr>
<tr>
<td></td>
<td>-4˚F to + 122˚F</td>
</tr>
<tr>
<td>Main Supply (Control) Dedicated Circuit</td>
<td>120V~/60Hz</td>
</tr>
<tr>
<td>Absorbed Power</td>
<td>0.75 Watts</td>
</tr>
<tr>
<td>Protection Fuse Battery</td>
<td>ATC 20A</td>
</tr>
</tbody>
</table>
UL325 Model Classifications
The LA400 is intended for use with vehicular swing gates. The operator can be used in Class I, Class II and Class III applications.

CLASS I – RESIDENTIAL VEHICULAR GATE OPERATOR
A vehicular gate operator (or system) intended for use in a home of one-to four single family dwelling, or a garage or parking area associated therewith.

CLASS II – COMMERCIAL/GENERAL ACCESS VEHICULAR GATE OPERATOR
A vehicular gate operator (or system) intended for use in a commercial location or building such as a multi-family housing unit (five or more single family units) hotel, garages, retail store or other building servicing the general public.

CLASS III – INDUSTRIAL/LIMITED ACCESS VEHICULAR GATE OPERATOR
A vehicular gate operator (or system) intended for use in a industrial location or building such as a factory or loading dock area or other locations not intended to service the general public.

SAFETY ACCESSORY SELECTION
All UL325 compliant LiftMaster gate operators will accept external entrapment protection devices to protect people from motorized gate systems. UL325 requires that the type of entrapment protection correctly matches each gate application. Below are the four types of entrapment protection systems recognized by UL325 for use on this operator.

ENTRAPMENT PROTECTION TYPES
Type A: Inherent obstruction sensing system, self-contained within the operator. This system must sense and initiate the reverse of the gate within two seconds of contact with a solid object.

Type B1: Connections provided for a non-contact device, such as a photoelectric eye can be used as a secondary protection.

Type B2: Connections provided for a contact sensor. A contact device such as a gate edge can be used for secondary protection.

Type E: Built-in audio alarm. Examples include sirens, horns or buzzers.

NOTE: UL requires that all installations must have warning signs placed in plain view on both sides of the gate to warn pedestrians of the dangers of motorized gate systems.

UL325 ENTRAPMENT PROTECTION REQUIREMENTS
The chart above illustrates the entrapment protection requirements for each of the three UL325 classes. In order to complete a proper installation you must satisfy the entrapment protection chart shown above. That means that the installation must have one primary means of entrapment protection and one independent secondary means of entrapment protection. Both primary and secondary entrapment protection methods must be designed, arranged or configured to protect against entrapments in both the open and close directions of gate travel.

For Example: For a slide gate system that is installed on a single-family residence (UL325 Class I) you must provide the following: As your primary type of entrapment protection you must provide Type A inherent (built into the operator) entrapment sensing and at least one of the following as your secondary entrapment protection: Type B1- Non-contact sensors such as photoelectric eyes, Type B2- Contact sensors such as gate edges.
Safety Installation Information

1. Vehicular gate systems provide convenience and security. Gate systems are comprised of many component parts. The gate operator is only one component. Each gate system is specifically designed for an individual application.

2. Gate operating system designers, installers and users must take into account the possible hazards associated with each individual application. Improperly designed, installed or maintained systems can create risks for the user as well as the bystander. Gate systems design and installation must reduce public exposure to potential hazards.

3. A gate operator can create high levels of force in its function as a component part of a gate system. Therefore, safety features must be incorporated into every design. Specific safety features include:
   - Gate Edges
   - Guards for Exposed Rollers
   - Screen Mesh
   - Photoelectric Sensors
   - Vertical Posts
   - Instructional and Precautionary Signage

4. Install the gate operator only when:
   a. The operator is appropriate for the construction and the usage class of the gate.
   b. All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 4’ (1.2 m) above the ground to prevent a 2-1/4” (6 cm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position.
   c. All exposed pinch points are eliminated or guarded, and guarding is supplied for exposed rollers.

5. The operator is intended for installation only on gates used for vehicles. Pedestrians must be supplied with a separate access opening. The pedestrian access opening shall be designed to promote pedestrian usage. Locate the gate such that persons will not come in contact with the vehicular gate during the entire path of travel of the vehicular gate.

6. The gate must be installed in a location so that enough clearance is supplied between the gate and adjacent structures when opening and closing to reduce the risk of entrapment. Swinging gates shall not open into public access areas.

7. The gate must be properly installed and work freely in both directions prior to the installation of the gate operator.

8. Controls intended for user activation must be located at least six feet (6’) away from any moving part of the gate and where the user is prevented from reaching over, under, around or through the gate to operate the controls. Outdoor or easily accessible controls shall have a security feature to prevent unauthorized use.

9. The Stop and/or Reset (if provided separately) must be located in the line-of-sight of the gate. Activation of the reset control shall not cause the operator to start.

10. A minimum of two (2) WARNING SIGNS shall be installed, one on each side of the gate where easily visible.

11. For a gate operator utilizing a non-contact sensor:
   a. Reference owner’s manual regarding placement of non-contact sensor for each type of application.
   b. Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle trips the sensor while the gate is still moving.
   c. One or more non-contact sensors shall be located where the risk of entrapment or obstruction exists, such as the perimeter reachable by a moving gate or barrier.

12. For a gate operator utilizing a contact sensor such as an edge sensor:
   a. One or more contact sensors shall be located where the risk of entrapment or obstruction exists, such as at the leading edge, trailing edge and post mounted both inside and outside of a vehicular horizontal slide gate.
   b. One or more contact sensors shall be located at the bottom edge of a vehicular vertical lift gate.
   c. A hard wired contact sensor shall be located and its wiring arranged so the communication between the sensor and the gate operator is not subject to mechanical damage.
   d. A wireless contact sensor such as the one that transmits radio frequency (RF) signals to the gate operator 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.
   e. One or more contact sensors shall be located on the inside and outside leading edge of a swing gate. Additionally, if the bottom edge of a swing gate is greater than 6” (152 mm) above the ground at any point in its arc of travel, one or more contact sensors shall be located on the bottom edge.
   f. One or more contact sensors shall be located at the bottom edge of a vertical barrier (arm).
NOTE: One or more non-contact sensors shall be located where the risk of entrapment or obstruction exists at either the opening or closing direction. Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle, trips the sensor while the gate is still moving.
Moving gate can cause injury or death. Keep clear! Gate may move at any time without prior warning. Do not let children operate the gate or play in the gate area. This entrance is for vehicles only. Pedestrians must use separate entrance.
Moving Gate Can Cause Injury or Death
KEEP CLEAR!
Gate may move at any time without prior warning.
Do not let children operate the gate or play in the gate area.
This entrance is for vehicles only. Pedestrians must use separate entrance.

To prevent SERIOUS INJURY or DEATH from a moving gate:
• Entrapment protection devices MUST be installed to protect anyone who may come near a moving gate.
• Locate entrapment protection devices to protect in BOTH the open and close gate cycles.
• Locate entrapment protection devices to protect between moving gate and RIGID objects, such as posts.
• A swinging gate shall NOT open into public access ways.

Warning Sign Placement

To prevent SERIOUS INJURY or DEATH from a moving gate:
• Install warning signs on EACH side of gate in PLAIN VIEW.
• Permanently secure each warning sign in a suitable manner using fastening holes.
Before Installation Check Your Gate

Gate MUST swing freely and be supported entirely by its hinges. Heavy duty, ball bearing type hinges are recommended.

Gate MUST be level

Gate and gate post MUST be plumb.

Remove ANY/ALL wheels from the bottom of the gate

Gate MUST NOT hit or drag across ground
Mounting Options

Mounting locations vary depending on type and style of your gate. Minimum distance from the ground should not be less than 4" from the bottom of the gate operator arm.

Recommended:
- Gate post bracket mounting locations
- Gate bracket mount locations

Optional:
- Gate post bracket mounting locations
- Gate bracket mount locations
INSTALLATION

Step 1: Manual Release

Insert the key into the lock and turn counter-clockwise 180°. Turn the release lever counter-clockwise 180°. The operator is in manual mode.
Step 2A: Determine Position of the Pull-to-Open Bracket

The Pull-To-Open bracket can be assembled to work on a **Left-Hand** or a **Right-Hand** gate. Review the gate types below and select the type of installation you will require.

*NOTE:* If the Pull-To-Open bracket is not assembled correctly you will damage the operator.

**Left-Hand Gate**

**Right-Hand Gate**

---

Step 2B: Determine Position of the “Optional” Push-to-Open Bracket (Not provided. See Accessories.)

The Push-To-Open bracket can be assembled to work on a **Left-Hand** or a **Right-Hand** gate. Review the gate types below and select the type of installation you will require.

**Left-Hand Gate**

**Right-Hand Gate**
Step 3: Determine Mounting Location

The gate post bracket assembly can be mounted several places on the gate post. Refer to the illustrations on page 10 for the ideal mounting location.

Refer to the illustrations below to determine the appropriate dimensions for the Pull-To-Open bracket.

**NOTE:** It may be necessary to add shims (angle iron, sheets of metal or wood) to the gate post to achieve the required dimensions.

---

Step 4: Assemble Gate Post Bracket (Pull-to-Open)

Assemble Gate Post bracket by placing Pull-To-Open bracket on top of Post bracket. Insert bolt through both brackets and secure with washer, lock washer and nut. Insert second bolt through both brackets and secure with washer, lock washer and nut.
NOTE: All the illustrations on the following pages display a typical Left-Hand Gate installation.

Step 5: Attach Brackets to Arm

Attach gate post bracket to arm using hex bolt and lock nut with nylon insert. Attach gate bracket to arm using pin and hairpin clip.

Step 6: Position Operator on Gate

The gate post bracket assembly can be mounted several places on the gate post. Refer to the illustrations on page 10 for mounting options.

Place opener arm against gate post at the desired vertical position and temporarily secure Gate Post bracket with C-clamp. Arm must be level.

Open gate to desired open position (no greater than 100°) and hold arm against gate. Mark mounting holes on gate for reference.

Temporarily secure the gate bracket using a C-clamp.
Step 7: Test Gate Travel

Manually open and close the gate.

Ensure that the arm does not bind against the pull-to-open bracket.

Ensure that the piston does not bottom out.

NOTE: If gate does not open and close completely adjust the position of the gate bracket and mark new mounting holes.
Step 8: Secure Gate Post Bracket to Gate Post

Mark holes for gate post bracket.
Remove C-clamp and operator. Set aside and drill adequate holes in gate post.

Secure gate post bracket to gate post using hardware. Keep arm level.

Step 9: Secure Gate Bracket to Gate

Drill holes in gate or reinforcement (if necessary) large enough for the gate bracket mounting hardware. Secure gate bracket to gate using hardware (not provided). Keep arm level.

*NOTE:* Some installations may require additional reinforcement be installed on the gate.

Manually move the gate to verify gate opens and closes fully.
Step 10: Warning Sign Placement

Warning placards MUST be installed on both sides of the gate and in plain view.

⚠️ WARNING ⚠️

To prevent SERIOUS INJURY or DEATH from a moving gate:
- Install warning signs on the front and back of the gate in PLAIN VIEW.
- Permanently secure each warning sign in a suitable manner using fastening holes.

If you are installing a 2nd operator repeat installation steps 1-10 for the second gate before proceeding to the next page.
**NOTE:** It is recommended that the control box be mounted within 3’ (.9 m) of Gate 1 or Gate 2.

**Step 11: Open the Control Box**

Remove screws and open the control box.

---

**Step 12: Select Mounting Holes**

Select holes to be used for mounting and knock out using a screwdriver and hammer.

---

**Step 13: Mount Control Box**

Secure control box to mounting surface (post, wall, column, etc.) using appropriate hardware.
**WARNING**

To reduce the risk of SEVERE INJURY or DEATH:

- ANY maintenance to the operator or in the area near the operator MUST not be performed until disconnecting the electrical power and locking-out the power via the operator power switch. Upon completion of maintenance the area MUST be cleared and secured, at that time the unit may be returned to service.

- Disconnect power at the fuse box BEFORE proceeding. Operator MUST be properly grounded and connected in accordance with local electrical codes. **NOTE: The operator should be on a separate fused line of adequate capacity.**

- ALL electrical connections MUST be made by a qualified individual.

- DO NOT install ANY wiring or attempt to run the operator without consulting the wiring diagram. We recommend that you install an optional reversing edge BEFORE proceeding with the control station installation.

- ALL power wiring should be on a dedicated circuit and well protected. The location of the power disconnect should be visible and clearly labeled.

- ALL power and control wiring MUST be run in separate conduit.

- BEFORE installing power wiring or control stations be sure to follow ALL specifications and warnings described below. Failure to do so may result in SEVERE INJURY to persons and/or damage to operator.

---

**Step 1: Watertight Connector Nut**

Insert operator cable through watertight connector nut.

---

**Step 2: Insert Operator Cable**

Insert operator cable through watertight connector mounted in the bottom of the control box.
Step 3: Connect Operator to Control Board

Extend cable and wires to “Gate 1” connector for single gate arm installation and connect as shown. Repeat for “Gate 2” connector and connect as shown.

**NOTE:** Wire connectors can be removed to simplify wiring.

**NOTE:** Never allow operator cable to drag on ground.
Connect Transformer to Control Board

NOTE: All power wiring should be on a dedicated circuit and well protected. Calculated using NEC guidelines. Local codes and conditions must be reviewed for suitability of wire installation.

The transformer can be plugged into a receptacle external to the control box. Run low voltage wire between the transformer and control box. This will create more space in the control box for accessories.

OR

Connect 120Vac directly to the box and plug the transformer to the receptacle inside the control box.
EARTH GROUND ROD INSTALLATION (OPTIONAL)

**NOTE:** For proper operation, do not connect the earth ground rod to the green screw on the outlet plate.

1. Install earth ground rod within 3' (0.9 m) of the operator.
2. Disconnect and remove the green/yellow ground wire connected to the screw terminal of the control board.
3. Attach earth ground rod wire to the screw terminal of the control board marked . Ensure the power wiring ground connection remains securely connected to the green screw on the outlet plate.

To AVOID damaging gas, power or other underground utility lines, contact underground utility locating companies BEFORE digging.
CONTROL WIRING

BATTERY
The main source of power for the operator is the batteries. The batteries can be charged in circuit by using a charging transformer or solar panels.

SOLAR PANEL KIT
Optional Liftmaster solar panel(s) kit may be used to charge the batteries. (See Accessories)

CHARGING
The 24Vac input can accept a charging transformer (26Vac, 29VA or 36Vdc, 40VA).

CAUTION
To reduce the risk of FIRE or INJURY to persons use ONLY LiftMaster part #K74-30762 for replacement batteries.
ADJUSTING / RUNNING THE OPERATOR

Step 1: Set Dip Switch

1. The Save switch must be set to the OFF position prior to programming or changing the switches.
2. Set switch to Single for single gate installation. For Dual (Gate 1 and 2) installation set switch on Dual.

**NOTE:** Save switch must be in the OFF position prior to programming or changing switches for the change to be saved.
Step 2: Program Limits (Ensure Save Switch is in the OFF position before beginning)

1. With the gate in the closed position, press the “LEARN LIMITS” button. The “SET OPEN LIMIT” LED will blink.

2. Use the “Gate 1” buttons to move Gate 1 to the desired open position (not to exceed 100°). If you have gone beyond the desired open position you can jog the gate towards the close position by using the opposite Gate 1 button. Repeat if Gate 2 is present using the “Gate 2” buttons.

3. Press the “LEARN LIMITS” button again to set the Open position. The “SET CLOSE LIMIT” LED will blink and beep once.

4. Use the “Gate 1” buttons to move Gate 1 to the desired close position. If you have gone beyond the desired closed position you can jog the gate towards the open position by using the opposite Gate 1 button. Repeat if Gate 2 is present using the “Gate 2” buttons.

5. Press the “LEARN LIMITS” button again to set the Closed position. The “SET CLOSE LIMIT” LED will blink and beep. The limits are now set.

6. Using the single button control on the board, run the gate(s) from the closed position to the open position. This will learn the forces.

7. Set Save Switch to the ON position.
Step 3: Set Force / Bi-Part / Timer

FORCE CONTROL
Set the force control such that the opener will complete a full cycle of gate travel but will reverse off an obstruction without applying an excessive amount of force.

BI-PART DELAY
Set the BI-PART DELAY to desired setting. The range is 0 to 8 seconds, 0 seconds is OFF.

NOTE: Used for Dual Gate installations only.

TIMER TO CLOSE ENABLE
Set the TIMER TO CLOSE to desired setting. The range is 0 to 180 seconds, 0 seconds is OFF.

Your basic installation is now complete.
OPTIONAL CONTROL AND SAFETY DEVICES

To Add or Reprogram a Remote Control

1. Press and release “LEARN XMITTER” button (LED will light up).
2. Press and hold remote button, the LED will flash, alarm will beep twice and the LED will go out.
3. Repeat steps 1 and 2 until all remote controls are programmed (50 remote controls maximum).

**NOTE:** For highest level of security, we recommend the 315 MHz, Security® line of products. Refer to Accessories.

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**To Erase All Codes**

To deactivate any unwanted remote controls, first erase all codes:

Press and hold the “LEARN XMITTER” button on logic board until the learn indicator light goes out (approximately 6 seconds). All previous codes are now erased. Reprogram each remote control or keyless entry you wish to use.

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**NOTICE:** To comply with FCC and or Industry Canada (IC) rules, adjustment or modifications of this receiver and/or transmitter are prohibited, except for changing the code setting or replacing the battery. THERE ARE NO OTHER USER SERVICEABLE PARTS.

Tested to Comply with FCC Standards FOR HOME OR OFFICE USE. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Dip Switch Settings

SAVE SWITCH S1-1
This switch (S1-1) is used to save the settings for switches 2 through 5.

**NOTE:** When setting switches, the save switch must be in the off position prior to setting or changing switches for the change to be saved.

MAG DELAY ENABLE
This switch (S1-2) enables the Maglock feature. On an open command there will be a .5 second delay before the motor starts, to allow the Maglock to release.

MODE DUAL/SINGLE
This switch (S1-3) sets the mode as Dual or Single (Refer to page 24).

SAFETY INPUTS
Swing gates allow four safety inputs. A DIP switch is required for determining between N/O and N/C edges and N/O and N/C eyes.

**EDGE INPUT**
Set switch (S1-4) to the following settings:
- N/O Edge (Active Close) = N/O dry contact edge or monitored edge

**NOTE:** Monitored Edges should be set in the N/O position, as the activation condition is shorting the terminals.

**EYE INPUT**
This switch (S1-5) differentiates between N/O and N/C dry contact photoelectric eye inputs.

**NOTE:** Pulsing Chamberlain (CPS-L) photoelectric eyes will automatically learn in N/O mode (See Accessories).
Wire Stop Button (Optional)

A jumper wire is factory installed between the stop and common input.

**Stop (N/C)** - Stop only (does not reset alarm).

**NOTE:** Stop jumper is required for normal operation (the Stop LED will be lit except when the control board goes into Sleep Mode). Remove only if remotely mounted Stop button is added.
OPEN
Opens only or reverses a closing gate.

SBC (SINGLE BUTTON CONTROL) INPUT
This input will command the gate to OPEN / STOP / CLOSE / STOP in sequence.

RESET CONTROL INPUT
The control box has a factory installed internal reset button. These terminals are intended for use with a single reset button that is installed within line of sight of the gate. This input functions to reset the alarms. This input will NOT stop the gate.

NOTE: All Control Inputs must be Normally Open (N.O.) dry contact type.

OPEN INPUT AND EXIT LOOP
These terminals are intended for use as a general open control. Accessories such as telephone entry systems, radio receivers (open only applications), exit loop detectors, keypads and 7-day timers may be wired to this input.
Loop Inputs

Shadow Loop Input Terminal and Common
This input protects cars by preventing the gate from moving off of the open or close limit when the shadow loop input is active.

**NOTE:** Shadow Loop is disabled when gate is moving.

Interrupt Loop Input Terminal and Common
This input functions to reverse a closing gate to the open limit. Latching this input will reset the timer to close.

**NOTE:** Additional enclosure required. Refer to loop detector manufacturer instructions for connections.
Photo/Edge Inputs (P6-7-8 and 9)

Terminal P6 – Close Safety Edge
This input will reverse a closing gate. It will disable the Timer-to-Close if that feature has been enabled. Activating this input while the gate is opening will have no effect.
Order part number LA400-BOX to enclose safety electronics.

Terminal P8 – Open Safety Edge/Photo Eye (Entrapment)
If an Open Edge device or a Retro-Reflective Photo Eye has been connected to Terminal P8, then this input will reverse an opening gate for 2 seconds then stop. Activating this input with an Open Edge device or a Retro-Reflective Photo Eye connected to Terminal P8 while the gate is closing will have no effect.
If a Chamberlain Pulsing Photo Eye (See Accessories) has been connected to Terminal P8, then this input will pause an opening gate until the obstruction has been removed. Upon removing the obstruction, the gate will continue to open. Activating this input with a Chamberlain Pulsing Photo Eye (See Accessories) connected to Terminal P8 while the gate is closing will have no effect.

Terminal P7 – Open Safety Photo Eye (Entrapment)
This input will pause an opening gate until the obstruction has been removed. Upon removing the obstruction, the gate will continue to open. Activating this input while the gate is closing will have no effect.

Terminal P9 – Close Safety Photo Eye
This input will reverse a closing gate to the open limit. Activating this input while the gate is opening will have no effect. The Timer-to-Close will reactivate at the open limit.
Safety Accessories for Secondary Entrapment Protection

The following devices are acceptable for Safety Accessories for secondary entrapment protection. These devices have been tested with the LA400 to meet the requirements of UL325 and UL991.

### PHOTO-ELECTRIC CONTROLS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>VOLTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPS-LN4</td>
<td>Emitter, receiver and mounting brackets - 30’ (9 m) Ranges</td>
<td>+24Vdc</td>
</tr>
<tr>
<td>CPS-RN4</td>
<td>Emitter with reflector and mounting brackets</td>
<td>+24Vdc</td>
</tr>
</tbody>
</table>

### SENSING EDGES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>G65MG0204</td>
<td>Miller MG020 2-wire electric edge for gates. Sensitized on three sides. (Requires mounting channel. PIN:G65ME120C5)</td>
</tr>
<tr>
<td>G65MG0205</td>
<td>Miller MG020 2-wire electric edge for gates. Sensitized on three sides. (Requires mounting channel. PIN:G65ME120C5)</td>
</tr>
<tr>
<td>G65MGR205</td>
<td>Miller MGR20 2-wire electric edge in 5’ (1.5 m) lengths for 2” (5 cm) round post.</td>
</tr>
<tr>
<td>G65MGS205</td>
<td>Miller MGR20 2-wire electric edge in 5’ (1.5 m) lengths for 2” (5 cm) square post.</td>
</tr>
</tbody>
</table>

---

**Maglock**

When enabled, the maglock output is activated (energized) while the gate is in motion.

**Auxiliary Output Power for Optional Devices**

(2) +24Vdc Outputs have been provided for optional devices

---

* Provides 24VDC. Do not exceed 500MA with 115Vac power supply or 300MA with 24Vac power supply.
OPERATION

Reset Button

The reset button is located on the outside of the control box and serves several functions.

Obstruction/Entrapment Reset

If gate encounters two consecutive obstructions, the control system will go into an entrapment alarm condition and the control board will require resetting. This is achieved by simply pushing the “Reset Button” located on the outside of the control box.

Party Mode (Timer Defeat - Hold Open)

When the “Timer to Close” feature is activated for normal daily operation and you wish to leave the gate(s) in the open position for any extended period of time you can activate the “Party Mode” by pushing the “Reset Button” located on the outside of the electrical box. To exit this mode, simply give the gate(s) a command to run by using the remote control. This will close the gate(s) and return the operator to normal operation.

Remote Control

Once the remote control has been programmed unit will operate as follows:

When gate is in the closed position, activation of the remote control button will open the gate. During the open cycle another activation of the remote control will stop the gate and the next activation of the remote control will close the gate.

When the gate is in the open position, activation of the remote control button will close the gate. During the close cycle another activation of the remote control will stop the gate and the next activation of the remote control will open the gate.

Manual Release

The drive mechanism can be released. The gate can then be operated manually (power failure). With a new drive mechanism, the release action may sometimes feel stiff/jerky. This is normal and has no effect on function.

Release

1. Insert the key into the lock.
2. Turn the key counter-clockwise 180°.
3. Turn the release lever counter-clockwise 180°.
4. Done! Operator is in manual mode.

Engage

1. Turn the release lever clockwise 180°. This engages the motor.
2. Turn the key clockwise 180°. This locks the release lever.
3. Remove the key and store in a safe place.
4. Done! Back in automatic mode.
## IMPORTANT SAFETY INSTRUCTIONS

### WARNING

To reduce the risk of SEVERE INJURY or DEATH:

1. READ AND FOLLOW ALL INSTRUCTIONS.
2. NEVER let children operate or play with gate controls. Keep the remote control away from children.
3. ALWAYS keep people and objects away from the gate. NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.
4. Test the gate operator monthly. The gate MUST reverse on contact with a rigid object or stop when an object activates the non-contact sensors. After adjusting the force or the limit of travel, retest the gate operator. Failure to adjust and retest the gate operator properly can increase the risk of INJURY or DEATH.
5. Use the emergency release ONLY when the gate is not moving.
6. KEEP GATES PROPERLY MAINTAINED. Read the owner's manual. Have a qualified service person make repairs to gate hardware.
7. The entrance is for vehicles ONLY. Pedestrians MUST use separate entrance.
8. Disconnect ALL power BEFORE performing ANY maintenance.
9. ALL maintenance MUST be performed by a LiftMaster professional.
10. **SAVE THESE INSTRUCTIONS.**

### CHECK AT LEAST ONCE EVERY

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>TASK</th>
<th>MONTH</th>
<th>3 MONTHS</th>
<th>6 MONTHS</th>
<th>12 MONTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>External entrapment protection systems</td>
<td>Check for proper operation</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gate warning signs</td>
<td>Make sure they are present</td>
<td></td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manual disconnect</td>
<td>Check and operate</td>
<td></td>
<td></td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Gate</td>
<td>Inspect for wear or damage</td>
<td></td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Accessories</td>
<td>Check all for proper operation</td>
<td></td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Electrical</td>
<td>Inspect all wire connections</td>
<td></td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Frame bolts</td>
<td>Check for tightness</td>
<td></td>
<td></td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Total unit</td>
<td>Inspect for wear or damage</td>
<td></td>
<td></td>
<td></td>
<td>●</td>
</tr>
</tbody>
</table>

**CAUTION**

To reduce the risk of FIRE or INJURY to persons, use ONLY LiftMaster part #K74-30762 for replacement batteries.

### NOTES:

1. Disconnect power before servicing.
2. Severe or high cycle usage will require more frequent maintenance checks.
3. Inspection and service should always be performed anytime a malfunction is observed or suspected.
4. When servicing, please do some “house cleaning” of the operator and the area around the operator. Pick up any debris in the area. Clean the operator as needed.
5. It is suggested that while at the site voltage readings be taken at the operator. Using a Digital Voltmeter, verify that the incoming voltage to the operator it is within ten percent of the operators rating.
Battery Replacement

1. Disconnect power to operator.
2. Open the control box cover.
3. Remove all quick connect terminals in use to the control board. Remember location of all wire connections for reinstallation.
4. Remove control board and mounting plate.
5. Disconnect terminals leads to both batteries.
6. Replace both batteries and connect red wires to the positive (+) terminals (red). Connect black wires to the negative (-) terminals (black).
7. Install control board and mounting plate.
8. Reconnect all quick connect terminals to the control board.
9. Close cover of control box.
10. Reconnect power to operator.
**ITEM** | **DESCRIPTION** | **FUNCTION** | **ITEM** | **DESCRIPTION** | **FUNCTION**
---|---|---|---|---|---
1 | Connector P1 | Antenna Input | 14 | Connector P15 | Alarm
2 | Connector P6 | Close Edge | 15 | Connector | Battery 1
3 | Connector P8 | Open Edge/Photo | 16 | Connector | Battery 2
4 | Connector P7 | Open Photo | 17 | Dip Switch | S1
5 | Connector P9 | Close Photo | 18 | Pushbutton | Learn Xmitter - Program Remote
6 | Connector P12 | Switched Accessory Power* | 19 | Pushbuttons | Gate 1 - Jog Learn Limit
7 | Connector P10 | Control Inputs | 20 | Pushbutton | Learn Limits
8 | Connector P11 | Loop Inputs | 21 | Pushbuttons | Gate 2 - Jog Learn Limit
9 | Connector P5 | 24Vac/Solar Input | 22 | Pushbutton | Single Button
10 | Connector P16 | Gate 2 | 23 | Potentiometer | Force
11 | Connector P13 | Accessory Power* | 24 | Potentiometer | Bi-Part Delay
12 | Connector P17 | Gate 1 | 25 | Potentiometer | Timer to Close
13 | Connector P14 | Maglock/Solenoid | 26 | Connector | Receiver

*See page 40 for max current draw*
1. ANTENNA INPUT
2. CLOSE EDGE
3. OPEN EDGE/PHOTO EYE
4. OPEN PHOTO EYE
5. CLOSE PHOTO EYE
6. 24VDC ACCESSORY OUTPUT
7. CONTROL INPUTS/EXIT LOOP
8. LOOP INPUTS, SAFETY/SHADOW
9. TRANSFORMER INPUT/SOLAR INPUT (OPTIONAL)
10. SECOND - OPERATOR ARM CONNECTION
11. 24VDC ACCESSORY OUTPUT
12. MASTER OPERATOR ARM CONNECTION
13. MAGLOCK/SOLENOID OUTPUT
14. FAULT ALARM OUTPUT
15. BATTERY INPUT #1
16. BATTERY INPUT #2
17. DIP SWITCH, S1
18. LEARN XMITTER
19. MASTER GATE JOG
20. LIMIT SET
21. SECOND GATE JOG
22. SBC (SINGLE BUTTON CONTROL)
23. FORCE SET
24. BIPART DELAY SET
25. TIMER TO CLOSE SET

**WARNING**

To protect against fire and electrocution:
- DISCONNECT power and battery BEFORE installing or servicing operator.
- Replace ONLY with fuse of same type and rating.

**NOTE:** Yellow/green wire must be disconnected when earth ground rod is installed.

**NOTE:** Batteries must be connected to operate.

[Diagram of wiring connections with labels for each connection point.]
<table>
<thead>
<tr>
<th>FAULT</th>
<th>POSSIBLE CAUSE</th>
<th>FIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPERATOR IS DEAD</td>
<td>No LED lights are on.</td>
<td>1) No voltage to board. 2) Bad control board.</td>
</tr>
<tr>
<td>OPERATOR DOES NOT RUN</td>
<td>Unit does not respond to any commands.</td>
<td>1) Low/disconnected battery. 2) Remote not programmed. 3) STOP connection loose/disconnected. 4) Constant Open Command (Check LED's). 5) Limits not programmed correctly. 6) Bad control board.</td>
</tr>
<tr>
<td>MOTOR DOES NOT RUN</td>
<td>Relays “click” when radio or SBC signal is given, but the operator does not move.</td>
<td>1) Low Battery. 2) Cable wiring between control box and operator arm disconnected or loose. 3) Batteries not connected. 4) Bad motor. 5) Bad control board.</td>
</tr>
<tr>
<td>GATE STOPS AND REVERSES (Force Reversal)</td>
<td>1) Gate met an obstruction. 2) Force set too low. 3) Bad gate hardware. 4) Incorrect Arm installation.</td>
<td></td>
</tr>
<tr>
<td>RPM REVERSAL</td>
<td>1) Obstructed Arm (bottoms out). 2) Bad RPM Sensor. 3) Too much mA pulled off board.</td>
<td></td>
</tr>
<tr>
<td>GATE STOPS</td>
<td>Gate starts to run, then stops and does not reverse.</td>
<td>1) Low battery. 2) Gate met an obstruction.</td>
</tr>
<tr>
<td>GATE OPENS BUT DOES NOT CLOSE</td>
<td>1) Constant Open Command (Check LED’s). 2) Timer to Close not set. 3) Accessory device wired to Open Only command.</td>
<td></td>
</tr>
<tr>
<td>Audible beeps (3 times) when command is given.</td>
<td>1) Battery Low &gt;23.5V</td>
<td>Operator will resume normal operation once battery voltage reaches 24V.</td>
</tr>
<tr>
<td>GATE’S DO NOT OPEN/CLOSE IN SYNC</td>
<td>1) Bi-Part Delay not set. 2) Limits not programmed correctly. 3) Incorrect Arm Installation</td>
<td></td>
</tr>
<tr>
<td>GATE DOES NOT AUTOMATICALLY CLOSE</td>
<td>Auto Close Timer not closing gate.</td>
<td>1) Timer to Close not turned on. 2) Gate has opened on Obstruction Reversal. 3) Operator in “Party Mode”. 4) Constant Open Command (Check LED’s).</td>
</tr>
<tr>
<td>ACCESSORY DEVICE NOT WORKING PROPERLY</td>
<td>1) Not installed properly. 2) Enabling Switch not turned on. 3) Loose/disconnected wires. 4) Bad accessory device</td>
<td></td>
</tr>
</tbody>
</table>
MAX CURRENT DRAW

<table>
<thead>
<tr>
<th>Current Source</th>
<th>Accessory Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>115 power to control box</td>
<td>500mA accessory power, 150mA switched accessory power.</td>
</tr>
<tr>
<td>24V power to control box depending on wire gauge and distance</td>
<td>300mA accessory power, 75mA switched accessory power.</td>
</tr>
<tr>
<td>Solar power to control box</td>
<td>0mA accessory, 50mA switched accessory power.</td>
</tr>
</tbody>
</table>

DIAGNOSTIC CODES

<table>
<thead>
<tr>
<th># OF BLINKS</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No Stop Switch Connected</td>
</tr>
<tr>
<td>2</td>
<td>Gate 1 Arm Disengaged</td>
</tr>
<tr>
<td>3</td>
<td>Gate 2 Arm Disengaged</td>
</tr>
<tr>
<td>4</td>
<td>Both Gate Arms Disengaged</td>
</tr>
<tr>
<td>5</td>
<td>RPM Reversal</td>
</tr>
<tr>
<td>6</td>
<td>Force Reversal</td>
</tr>
<tr>
<td>7</td>
<td>Processor Reset</td>
</tr>
<tr>
<td>8</td>
<td>ROM Check Failed</td>
</tr>
<tr>
<td>9</td>
<td>RAM Check Failed</td>
</tr>
<tr>
<td>10</td>
<td>EEPROM Check Failed - Reset Limits</td>
</tr>
</tbody>
</table>
REPAIR PARTS

Refer to the parts lists below for replacement parts available for your operator. If optional modifications and/or accessories are included with your operator, certain components may be added or removed from these lists.

### CONTROL BOX LA400-CONT

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>K001A6039</td>
<td>Control Board</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>K75-15480</td>
<td>Control Box &amp; Cover</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>K75-30764</td>
<td>Control Box &amp; Cover</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>with Gasket</td>
<td>Control Box &amp; Cover</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>K23-19380</td>
<td>Reset Switch</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>K74-19499</td>
<td>Antenna</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>K74-30762</td>
<td>Battery</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>K74-30763</td>
<td>Transformer</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>K76-19446</td>
<td>Alarm</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>K74-30941</td>
<td>ATC Fuse Kit</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Includes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 Amp (1), 15 Amp (2)</td>
<td></td>
</tr>
<tr>
<td>Not Shown</td>
<td>K001A5747-2</td>
<td>390 MHz Receiver Module</td>
<td></td>
</tr>
<tr>
<td>Not Shown</td>
<td>K001A5747</td>
<td>315 MHz Receiver Module</td>
<td></td>
</tr>
</tbody>
</table>

![Diagram of the control box](image-url)
### ACTUATOR ARM KITS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>41ASWG-442SA</td>
<td>Release Lever</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>41ASWG-438SA</td>
<td>Motor with Limit Switch Harness</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>41ASWG-0014SA</td>
<td>Rear Connector</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>41ASWG-489</td>
<td>Cable 24V with Connector</td>
<td>1</td>
</tr>
<tr>
<td>Not Shown</td>
<td>41ASWG-0119</td>
<td>Release Key</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>K77-19130</td>
<td>Hardware Bag</td>
<td>1</td>
</tr>
</tbody>
</table>

**Complete With:** Gate bracket, Post bracket, Extension bracket and Hardware

![ACTUATOR ARM KITS Diagram](image-url)
50-19503 Push to Open Bracket
Used to allow the gate operator to push the gate open.

SOLKIT12V (Single Panel)
SOLKIT12V-2P (Two Panels):
Kit contains: Battery management module, outdoor battery case (battery not included), solar panel(s). When power is not close by, solar may be the right option. For more information, please contact customer service or see pre-sale solar application guide.

02101 1-Button Station:
Steel enclosure wired station will allow for a Open, Close, Stop command of the gate.

370LM 3-Button Mini-Remote Control with SECURITY+®:
With key ring and fastening strip.

373LM 3-Button SECURITY+® Remote Control ®:
Includes visor clip.

86LM Remote Antenna Mounting Kit:
Kit contains antenna bracket and 15’ (4.6 m) of cable. Recommended for increasing the effective range of remote controls.

377LM SECURITY+® Keyless Entry ®:
Enables homeowner to operate gate by entering a password on a specially designed keyboard. Also can add a temporary password for visitors or service persons. This temporary password can be limited to a programmable number of hours or entries.

LM202 Vehicle Detecting Driveway Probe:
One piece outdoor buried vehicle motion detector with sensing probe is housed in a small relay type housing. Provides for free exit.

GC824-12 Gate Solenoid Lock:
Heavy all steel construction. Failsafe operation keeps gate locked if power is lost. Can be welded onto gate or post. 24Vdc operation, solenoid-activated release. Can be released in case of an emergency. Requires separate power supply (Model ARMPS).

GC838 Magnetic Gate Lock:
Incredible 1,200 Lb. holding force. Operates on 12 or 24Vdc. Low power consumption. Universal mounting holes for ease of installation. Automatically releases when power is lost. Requires separate power supply (Model ARMPS).

50-19509 6" Post Mounting Kit for control box
50-19511 4" Post Mounting Kit for control box
50-19512 2 1/2" Post Mounting Kit for control box

GCPSN4 Commercial Protector System®:
Maximum range is 45’ 24V. Includes mounting hardware and electrical interface box.

CPS-LN4 Commercial Protector System® (Direct Connect):
Maximum range is 45’ 24V. Includes mounting hardware.
WARRANTY POLICY AND SERVICE

LIFTMASTER® TWO YEAR LIMITED WARRANTY

The Chamberlain Group, Inc. warrants to the first purchaser of this product, for the structure in which this product is originally installed, that it is free from defect in materials and/or workmanship for a period of two years from the date of purchase. The proper operation of this product is dependent on your compliance with the instructions regarding installation, operation, maintenance and testing. Failure to comply strictly with those instructions will void this limited warranty in its entirety.

If, during the limited warranty period, this product appears to contain a defect covered by this limited warranty, call 1-800-528-2806, toll free, before dismantling this product. Then send this product, pre-paid and insured, to our service center for warranty repair. You will be advised of shipping instructions when you call. Please include a brief description of the problem and a dated proof-of-purchase receipt with any product returned for warranty repair. Products returned to Seller for warranty repair, which upon receipt by Seller are confirmed to be defective and covered by this limited warranty, will be repaired or replaced (at Seller’s sole option) at no cost to you and returned pre-paid. Defective parts will be repaired or replaced with new or factory-rebuilt parts at Seller’s sole option.

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