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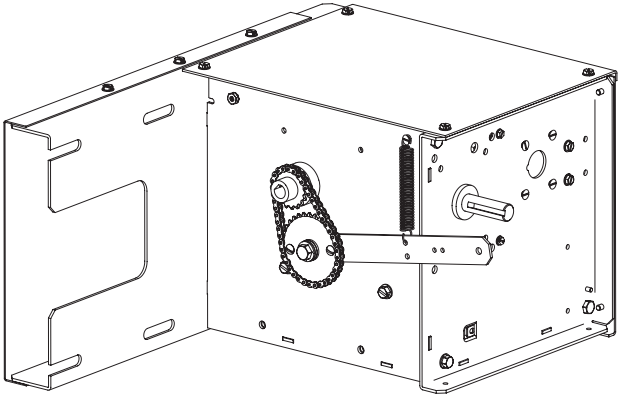
GENIE®

COMMERCIAL LINE

GCL-GCX™

COUNTER DOOR OPERATOR

MEETS UL325/2010



PROPER APPLICATION

Door Type	Operator Type	Max Door Weight/HP
Rolling Steel Counter Door	Counter Door	1/2HP = 500 lbs.

NOT FOR RESIDENTIAL USE

This Installation Manual provides the information required to install, troubleshoot and maintain a GCL-GCX™ Counter Door Operator.

Table of Contents

Section 1: How to use this manual

The 11 sections of this Installation Manual provide the information required to install, troubleshoot and maintain an GCX commercial/industrial door operator.

Section 2
Provides important defining information related to safety terminology used throughout this manual, as well as safety related instructions which must be followed at all times while doing any steps/tasks/instructions detailed in this manual.

Section 3
Details pre-installation concerns/issues/decisions that are recommended to be considered and/or resolved prior to beginning any commercial door operator installation.

⚠ WARNING

Failure to correctly perform all steps in sections 4-6 can result in serious injury or death.

Sections 4-6
Provide step by step installation and set-up instructions for the GCX commercial door operator. Each section is written such that it must be followed in a step by step order to complete a successful installation.

Sections 7-8
Detail important features and troubleshooting information for typical installation and normal operations that may occur.

Sections 9-11
Provide related information on service and maintenance items, operator drawings for use in troubleshooting and service activities, along with important warranty and returned goods policy information.

Section 2: Safety Information & Instructions

⚠ WARNING

Overhead Doors are large, heavy objects that move with the help of springs under high tension and electric motors. Since moving objects, springs under tension, and electric motors can cause injuries, your safety and the safety of others depend on you reading the information in this manual. If you have any questions or do not understand the information presented, call your nearest service representative. For the number of your local Genie® Dealer, call 800-OK-GENIE,and for **Genie® Factory Technical Advice, call 800-843-4084.**

In this Manual, the words Danger, Warning, and Caution are used to stress important safety information. The word:

- ⚠ **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- ⚠ **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- ⚠ **CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in injury or property damage.

*The word **NOTE** is used to indicate important steps to be followed or important considerations.*

POTENTIAL HAZARD	EFFECT	PREVENTION
 MOVING DOOR	⚠ **WARNING Could result in Serious Injury or Death**	**Do Not** operate unless the doorway is in sight and free of obstructions. Keep people clear of opening while door is moving. **Do Not** allow children to play with the door operator. **Do Not** change operator control to momentary contact unless an external reversing means is installed. **Do Not** operate a door that jams or one that has a broken spring
 ELECTRICAL SHOCK	⚠ **WARNING Could result in Serious Injury or Death**	Turn off electrical power before removing operator cover. When replacing the cover, make sure wires are not pinched or near moving parts. Operator must be electrically grounded.
 HIGH SPRING TENSION	⚠ **WARNING Could result in Serious Injury or Death**	**Do Not** try to remove, repair or adjust springs or anything to which door spring parts are fastened, such as, wood block, steel bracket, cable or any other structure or like item. Repairs and adjustments must be made by a trained service representative using proper tools and instructions.

IMPORTANT

READ PRIOR TO ANY DOOR OPERATION

1. **Read manual and warnings carefully.**
2. **Keep the door in good working condition. Periodically lubricate all moving parts of door.**
3. **If door has a sensing edge, check operations monthly. Make any necessary repairs to keep it functional.**
4. **AT LEAST twice a year, manually operate door by disconnecting it from the operator. The Door should open and close freely. If it does not, the door must be taken out of service and a trained service representative must correct the condition causing the malfunction.**
5. **The Operator Motor is protected against overheating by an internal thermal protector. If the operator ceases to function because motor protector has tripped, a trained service technician may need to correct the condition which caused the overheating. When motor has cooled, thermal protector will automatically reset and normal operation can be resumed.**
6. **In case of power failure, the door can be operated manually by pulling the release cable to disconnect the operator drive system.**
7. **Keep instructions in a prominent location near the pushbutton.**

Section 3: Critical Installation Information

Job Site Issues to Consider/Concerns

The following list of items should be considered prior to selecting an operator for a given job site.

1-Available power supply.
2-Type of door.
3-Potential operator mounting obstructions. Items to consider include, but are not limited to: side room, room above door shaft, room below door shaft, available mounting surface integrity, power supply location, and convenient chain hoist and release cable positioning.
4-Size of door for appropriate operator torque and door travel speed selection.
5-Operator mounting environment. Items to consider include operator location, dampness of location, dustiness of the location and corrosiveness of the location.
6-Door activation needs/requirements. Examples include 3 button control stations, 1 button control stations, radio controls, pull cords, loop detectors, photoelectric controls, key switches, etc. See "Entrapment Protection" section below.
7-Interlock switches are required under certain conditions for doors with pass doors and door locks. See Section 5.5 below.
8-Accessory equipment. Examples include reversing edges and/or photocell beams, which are required for doors set to operate as momentary contact, auxiliary control relays, warning lights, etc. See "Entrapment Protection" section below.

⚠ ENTRAPMENT PROTECTION

The installation of a fail safe external reversing device (such as a monitored reversing edge or photocell system, etc.) is required on all momentary contact electronically operated commercial doors. If such a reversing device is not installed, the operator will revert to a constant contact control switch for operation (Closing only).
The Reversing Devices currently UL Approved with this model are:

1) MillerEdge ME, MT and CPT series monitored edge sensors used in combination with Timer-Close Module P/N OPABTCX.S, and/or OPAKMEIGX.S INTERFACE MODULE.
2) Residential Safe-T-Beam® Monitored Photocells from The Genie® Company, model OSTB-BX (P/N 38176R).
3) Series II Commercial Safe-T-Beam®, Monitored Photocells P/N OPAKPE.S.
4) Series II Commercial Safe-T-Beam®, Monitored Photocells P/N OPAKPEN4GX.S.

⚠ WARNING: DO NOT apply line voltage until instructed to do so.

⚠ CAUTION:
Check working condition of door before installing the operator. Door must be free from sticking and binding. If equipped, deactivate any door locking device(s). Door repairs and adjustments, including cables and spring assemblies MUST be made by a trained service representative using proper tools and instructions.

ENTRAPMENT PROTECTION

The GCX can be used with the following UL Listed entrapment devices in compliance with UL325 requirements active starting August 29, 2010.

UNTIL ONE OF THESE MONITORED EXTERNAL ENTRAPMENT DEVICES IS INSTALLED, THE OPERATOR WILL NOT ALLOW MOMENTARY CONTACT OPERATION IN THE CLOSE DIRECTION.

APPROVED DEVICES	ALLOWABLE DOOR WIDTH
Miller Edge ME, MT & CPT series monitored edge sensors used in combination with either the Genie® Timer-Close Module or Direct connect through STB inputs using the OPAKMEIGX.S Interface Module.	ANY WIDTH
Safe-T-Beam® from Genie®—P/N 38176R.	30 FEET
Commercial Photoeye Kit—P/N OPAKPE.S.	30 FEET
Monitored Photocells—P/N OPAKPEN4GX.S.	30 FEET

Rolling Steel Door Chart (sq. ft.)

Model	HP	UL Listed	STEEL, NON-INSULATED						STEEL, INSULATED			COUNTER DOOR		GRILLES		FIRESTAR 2" SLAT		FIRESTAR 3" SLAT				FIRESTAR 3" SLAT INSULATED		SHEET DOOR
			16GA.	18GA.	20GA.	22GA.	24GA.	26GA.	18GA.	20GA.	22GA.	ALUM.	STL/SST	ALUM.	STL/SST	20GA.	22GA.	16GA.	18GA.	20GA.	22GA.	20GA.	22GA.	26GA.
GCL-GCX	1/2	YES	N/A	N/A	144	144	144	144	N/A	N/A	N/A	126	126	142	108	82	94	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: Total door weight and not square footage is the critical factor in selecting the proper operator. These Sq.Ft. measurements are based on square doors, e.g. 16' x 16'.

Unbalanced Fire Shutters have a maximum square footage of 52 for 22GA. steel and 42 for 20GA. steel.

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING

To reduce the risk of severe injury or death:

1) READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
2) Install only on a properly operating and balanced door. A door that is operating improperly could cause severe injury. Have qualified service personnel make repairs to cables, spring assemblies and other hardware before installing the operator.
3) Remove all pull ropes and remove, or make inoperative, all locks (unless mechanically and/or electronically interlocked to the power unit) that are connected to the door before installing the operator.
4) Install the door operator at least 8 feet above the floor if the operator has exposed moving parts.
5) Do not connect the door operator to the power source until instructed to do so.
6) Locate the control station: (a) within sight of the door, (b) a minimum of 5 feet above the floor so that small children cannot reach it, and (c) away from all moving parts of the door.
7) Install the Entrapment Warning Placard next to the control station and in a prominent location.
8) For products having a manual release, instruct the end user on the operation of the manual release.

Section 4: Installation

Mounting

Unless otherwise stated, these instructions will show right side mount installations. Left side mount is opposite.

1) Insert four(4) 3/8"-16 x 1" carriage bolts into headplate. **FIG. 1**.
   - Threads to outside of plate.
   - Retain by pushing 4 speed nuts onto bolts.
2) Complete installation of door as instructed in door installation manual up to "mounting of hood."
3) Make certain both headplates are at 90° to wall.
   - If not at 90°, use temporary external brace to hold in place.
4) Install hood and secure with hood mounting screws.
   - When hood is secure, remove temporary brace if used (in step3).
   - Leave door in FULL OPEN position.
5) Place 3/8" flat washers and 3/8"-16 keps nuts on 3/8" carriage bolts closest to wall. **FIG. 2**.
   - Leave nuts flush with ends of bolts.
6) Remove chain guard from GCX operator.

Figure 1

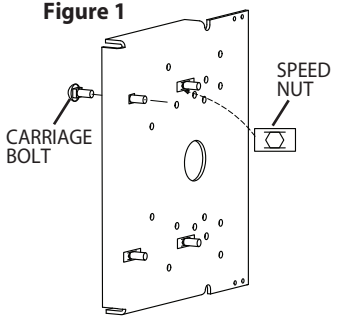
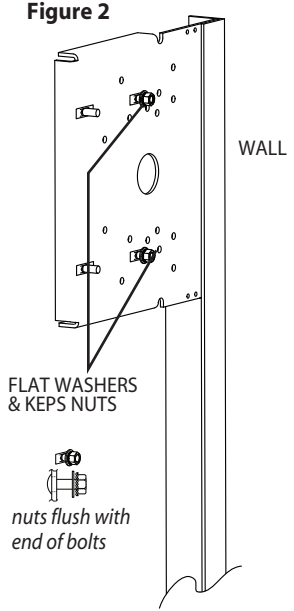


Figure 2



Mounting (continued)

7) Slide open ended slots of frame under flat washers installed in step 5. **FIG. 3**.
   - Locate other frame slots over remaining two(2) carriage bolts and bring frame against headplate.
   - Put 3/8" washers and keps nuts on remaining bolts.
   - DO NOT fully tighten nuts.
   - Slide operator toward wall as far as slots allow. **FIG. 4**.
8) Place driven sprocket and key on door shaft and align with output sprocket on operator. **FIG. 4A**.
   - Secure sprocket and key in place with set screws.
9) Wrap #25 roller chain around both sprockets and join with connecting link. **FIG. 5 & 6**.
   - Chain length is correct for 9-1/2" headplate.
   - For 11-1/2" headplate, add short #25 chain (provided) to long chain using extra connecting link.
   - Slide operator away from hood until drive chain is tensioned *but not tight*. **FIG. 7**.
   - Tighten mounting nuts.

Figure 3

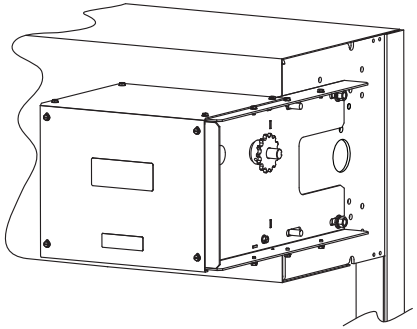


Figure 4

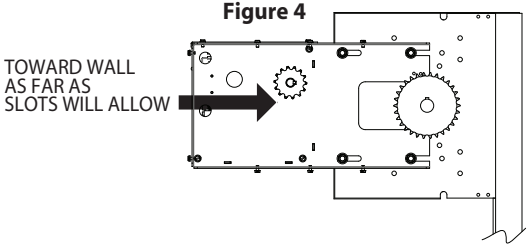


Figure 4A

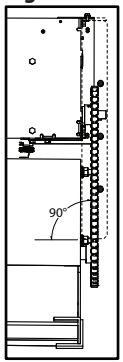


Figure 5

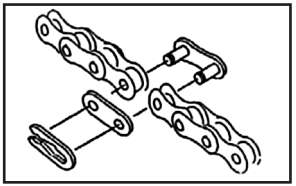


Figure 6

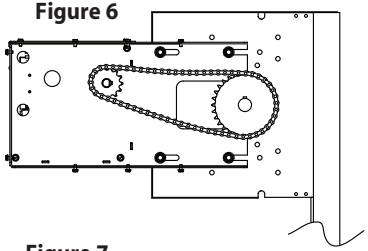
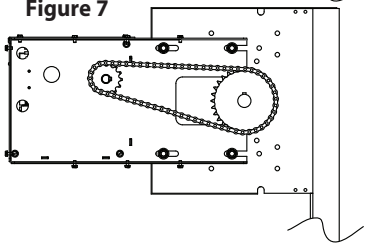


Figure 7



Manual Release

NOTE: In case of power failure, door can be operated manually.

The operator can be disconnected from door by pulling red pull rope attached to Drop Release Lever to allow opening door. **FIG. 8**.

- When door is in manual operation, limit switch setting is not affected.
- Releasing pull rope will re-engage operator.

1) Install Release Cord.
2) Locate and install the wall control.
3) Locate and install Warning Placard. **FIG. 9**.
4) Remove four (4) self-tapping screws from front panel of the enclosure and remove front panel to expose control circuits and allow for installation of any optional accessory board. **FIG. 8**.

Figure 8

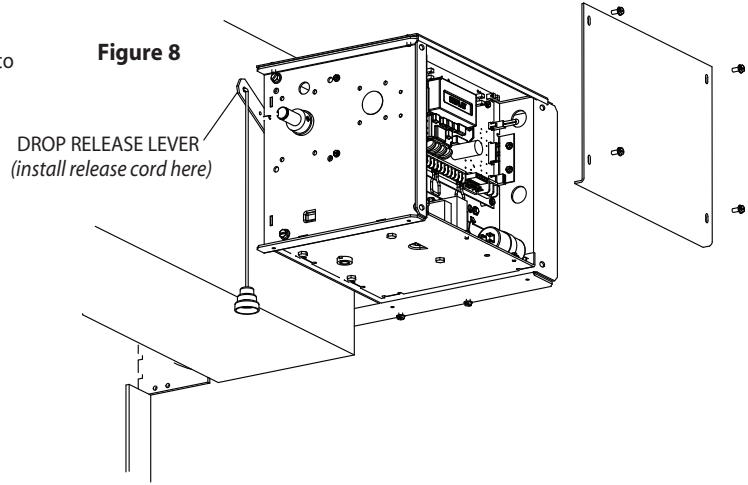


Figure 9

Warning Placard
MUST BE ATTACHED
ADJACENT to push button.

Optional Timer-Close Module <u>or</u> Auxiliary Output Module

These instructions apply to either board. Although they perform different functions, they mount in the same way.

2) Orient the module so mounting bracket tabs are to the left and wire terminals are facing up.
3) Make desired wiring connections, in accordance with instruction manual accompanying the module.
4) Insert module into the area indicated and slide front mounting tab into slot on side panel of the enclosure. **FIG. 10 & 11**.
5) Adjust module so that it is level with GCX enclosure.
   - There is a mounting hole on side panel of enclosure which will line up with hole in module mounting bracket.
   - Attach module by inserting self-tapping screw (provided in kit) through module bracket and into hole in side panel. Do not overtighten.
6) Replace front panel.

Figure 10

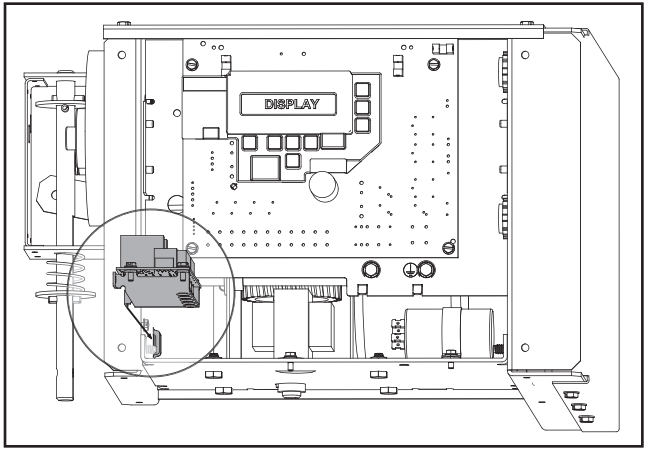
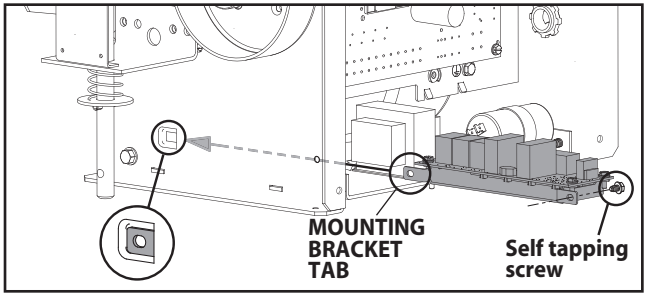


Figure 11



Section 5: Wiring

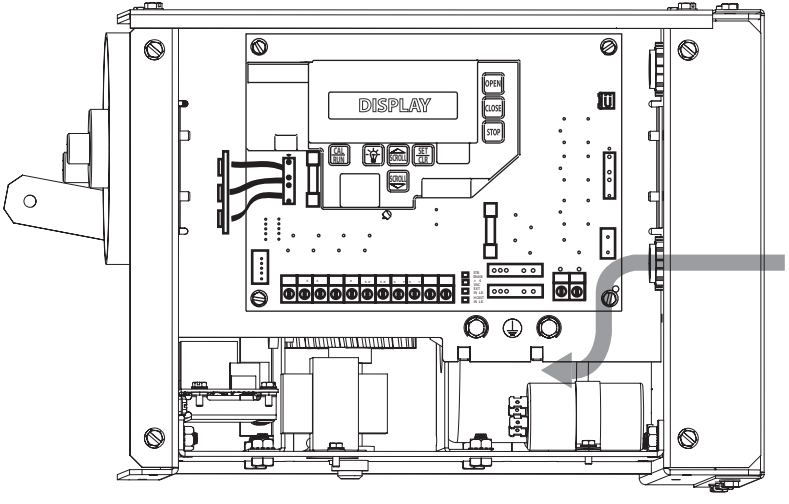
Line Voltage Wiring Fig. 1

⚠ WARNING

- DO NOT apply power to operator until instructed to do so.
- The Genie® Company recommends that line voltage wiring be performed by a qualified electrician.
- Be sure that electrical power has been disconnected from the input power wires being connected to the operator prior to handling these wires. An appropriate lock-out /tag-out procedure is recommended.
- Line voltage wiring must meet all local building codes.
- Make sure operator voltage, phase and frequency nameplate ratings are identical to the job site line voltage ratings.
- Input power wiring must be properly sized for the operators amperage rating located on the nameplate.
- To reduce the risk of electric shock, make sure the chassis of this unit is properly grounded.

1) Remove LINE VOLTAGE INPUT PLUG and install proper fittings and 1/2"conduit.
2) Route proper LINE VOLTAGE wires into operator.
3) Locate LINE INPUT terminals on circuit board. Using correct connectors, attach wires to LINE INPUTS, and GROUND terminal.
   - Keep low voltage and line voltage wires separate.
   - Route all line voltage wires as shown.
   - Plug all unused conduit holes.

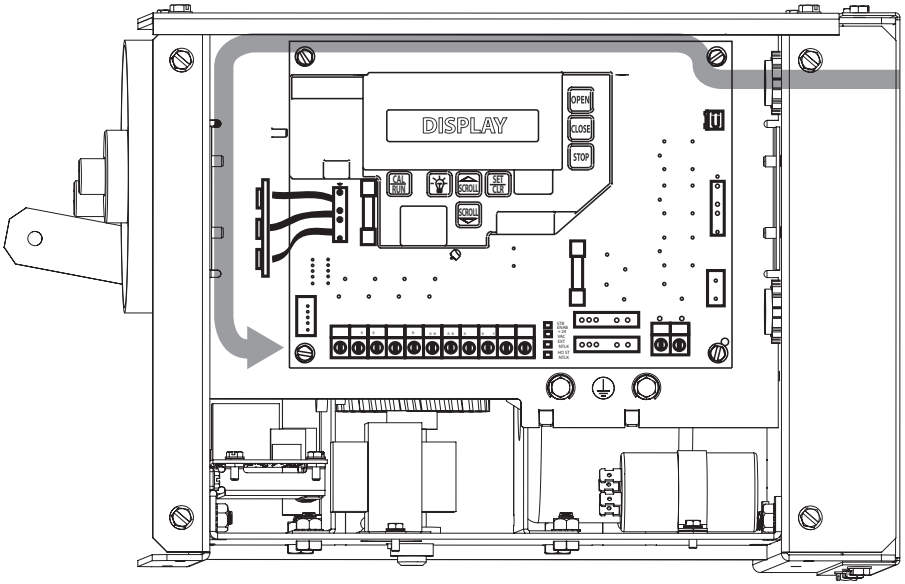
Figure 1



Low Voltage Control Wiring Fig. 2

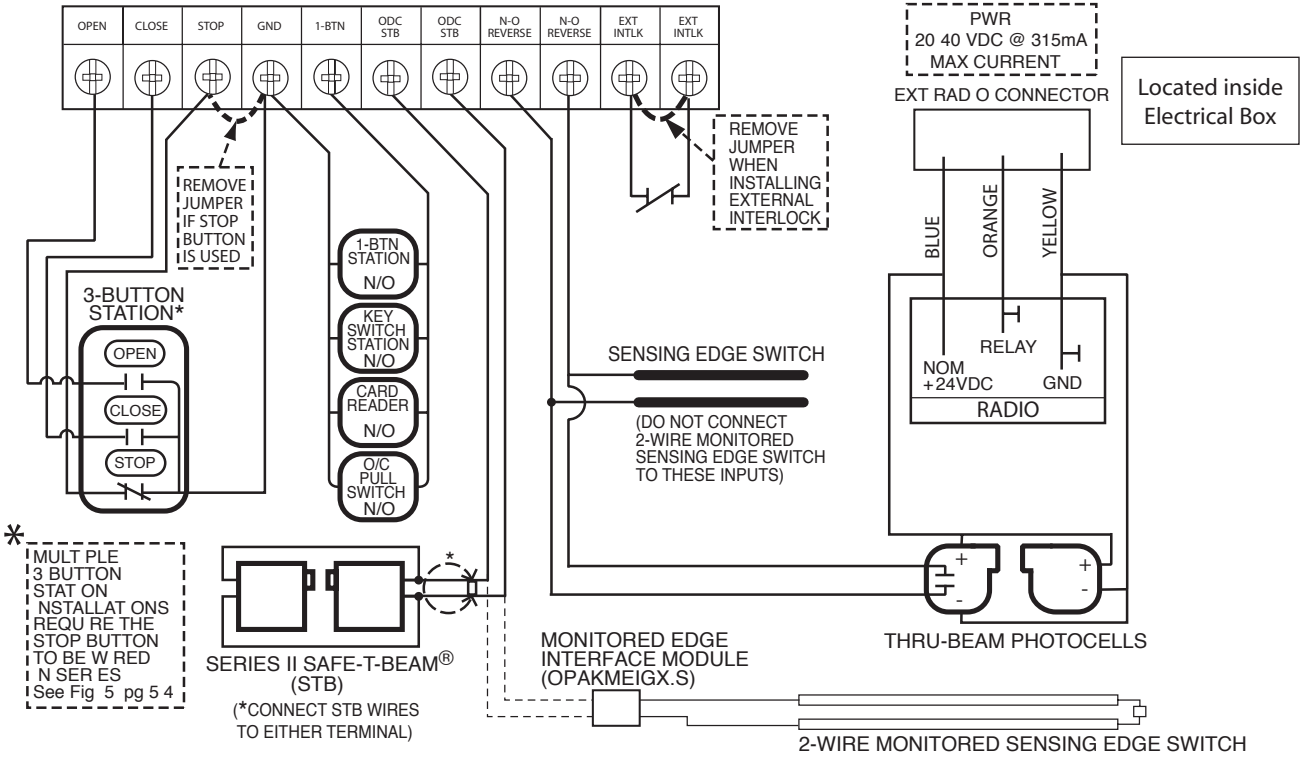
1) Connect all LOW VOLTAGE control circuit wires to this side of unit using 1/2" conduit or flexible convoluted tubing.
   - Keep low voltage and line voltage wires separate.
   - Route all low voltage control wiring as shown. This includes all control circuit wires such as wall controls, timers and single button input devices as well as radio control and safety circuit wiring.
   - Plug all unused conduit holes.

Figure 2



External Wire Diagram

See Appendix B for detailed description of terminals.



Wall Control

⚠ WARNING:

- Wall Control(s) must be located so that the door is within sight of the user.
- Attach the Warning placard adjacent to the Wall Control. **Fig. 3A**.
- Attach the Caution Label adjacent to the Wall Control. **Fig. 3B**.

Figure 3B

CAUTION

To prevent the motor protector from tripping, do not exceed 4 door operations per hour.

For light-duty use ONLY

Not for residential use.

P/N 111980.0001

⚠ WARNING:

If momentary contact control is to be used, an external monitored reversing device such as a photocell system or sensing edge switch must be used. See pages 5.6-5.7 for installation of entrapment protection devices.

1) For one 3 - button installation, make connections as shown in **Fig. 3**.
2) For single button accessory controls, make connections as shown in **Fig. 4**
3) For a multiple 3 - button installations, make connections as shown in **Fig. 5**.

NOTE: If an External STOP button is NOT being installed, a jumper wire must be installed between the "STOP" AND "GND" terminals as shown.

NOTE: Long Distance Relay Kit wiring is not required for long distance control runs and should not be used

Figure 3A

Entrapment Warning Placard

Figure 3

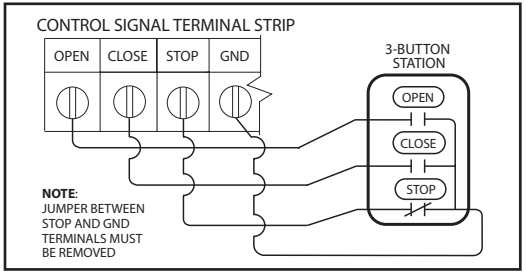


Figure 4

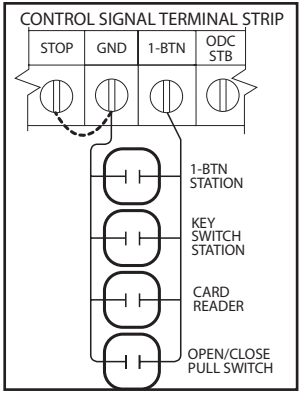
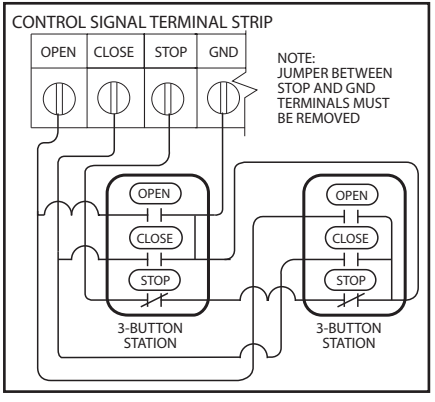


Figure 5



Photocell Wiring

Series II Safe-T-Beam® Monitored Photocells

1) Monitored SERIES II (STB) photocells (P/N 38176R.S or OPAKPE.S) can be installed as shown in **Fig. 6**. Wiring to these photocells can be connected to either terminal (they are not polarity sensitive). **(Troubleshooting in Section 8)**.

NOTE: Installer must enable ODC STB in calibration mode. See page 6.7.

WARNING: Actuating operator using constant contact on the CLOSE button will override external reversing devices, including photocells.

2) **To Mount Photocells**: (Kit includes detailed Instructions).
   - Determine location for mounting. They do not need to be directly adjacent to the door but must be somewhere along the wall where there will be an unobstructed line between them. **Fig 7**.
   - Screws provided for mounting on soft material (wood, drywall, etc.)
   - They must extend out away from the wall sufficiently that no door hardware breaks the plane of the photo-beam.

WARNING: Photocell systems provide entrapment protection when mounted near the doorway in such a way that the lower portion of an individual's leg will break the photocell beam during normal walking conditions.

Commercial Non-Monitored Photocells

1) Nominal 24 Volt DC Commercial photocells with normally open contacts can be connected as shown in **Fig. 8**.

NOTE: Blue wire supplies 20 – 40VDC. Photocells used must be compatible with this voltage range.

NOTE: If no voltage is present at Blue wire, check fuse F-1 on Control board.

Figure 6

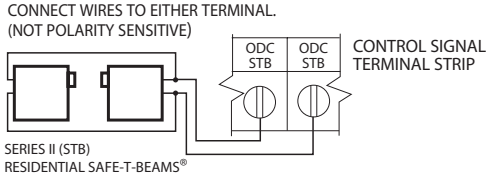


Figure 7

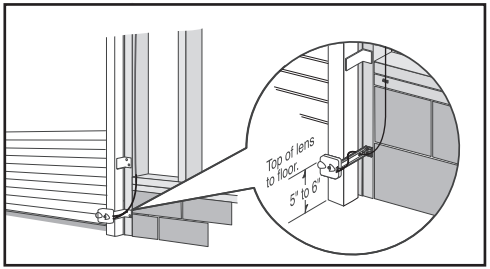
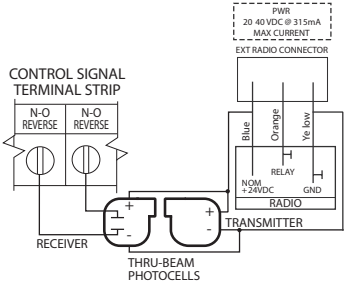


Figure 8



Sensing Edge Switch Installation

Figure 10 shows an example of a typical sensing edge installation. Left hand side is shown but right hand is a mirror image of this.

1A) If wiring from sensing edge switch to operator is coiled cord or 2 wire jacketed cord:
- Install junction box 12" above the center of the door opening on same side as sensing switch.
- Secure one end of cord to junction box using a cable clamp.

1B) If connection is to be made through a take up reel cord: **NON-MONITORED EDGE ONLY**.
- Install on same side as sensing edge switch and above door opening and slightly to the side.
- Install junction box adjacent to take up reel and route the stationary cord from the reel to the box and secure with a cable clamp.

2) Secure other end of cord (straight, coiled or reel) to sensing edge switch enclosure using a cable clamp.

3) Connect wires of cord to sensing edge switch using wire nuts or other suitable wire connectors.

4) Run a straight 2 wire cord from the junction box to the operator electrical box.
- Secure using cable clamp on each end.

5) Join wires in cord from operator to wires in cord from switch using wire nuts or other suitable wire connectors.

9A) **Non-Monitored** sensing or reversing edge connects to terminal strip using N-O Safety inputs. See **Fig. 9A** .

9B) **Monitored** sensing or reversing edge connects to Timer-Close Module terminals as shown in **Fig. 9B** .

9C) **Monitored** sensing or reversing edge (no monitored Safety-T-Beam®) using the Monitored Edge Interface Module (OPAKMEIGX.S) connects to ODC STB terminals as shown in **Fig. 9C** .

7) Operate the door to make certain cord is free to travel and does not become snared during door opening or closing.
- Check sensing edge switch for proper operation.

⚠ WARNING: Actuating the operator using constant contact on the CLOSE button will override external reversing devices, including sensing edges or reversing edges.

Figure 9A

NOTE: Do not connect a 2-wire monitored semsing edge switch to these termiinals.

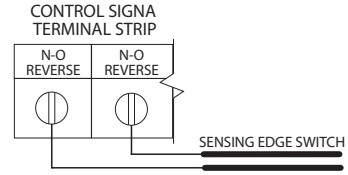


Figure 9B

NOTE: Monitored 2-wire sensing or reversing edge can only be used in combination with a Timer-Close Module.

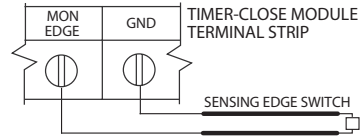


Figure 9C

NOTE: Monitored sensing edge connects to main circuit board ODC STB terminals using optional OPAKMEIGX.S INTERFACE MODULE.

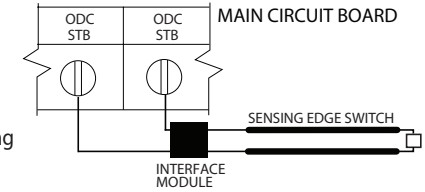
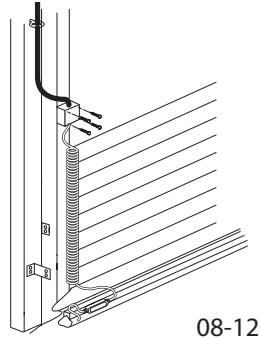


Figure 10



Locking Bottom Bar / Interlock

Figure 11 shows an example of a typical locking bottom bar. Left hand side Interlock Switch is shown. Right hand mount is mirror image.

NOTE: Interlock Switch is mandatory on doors equipped with an electronically controlled commercial operator.

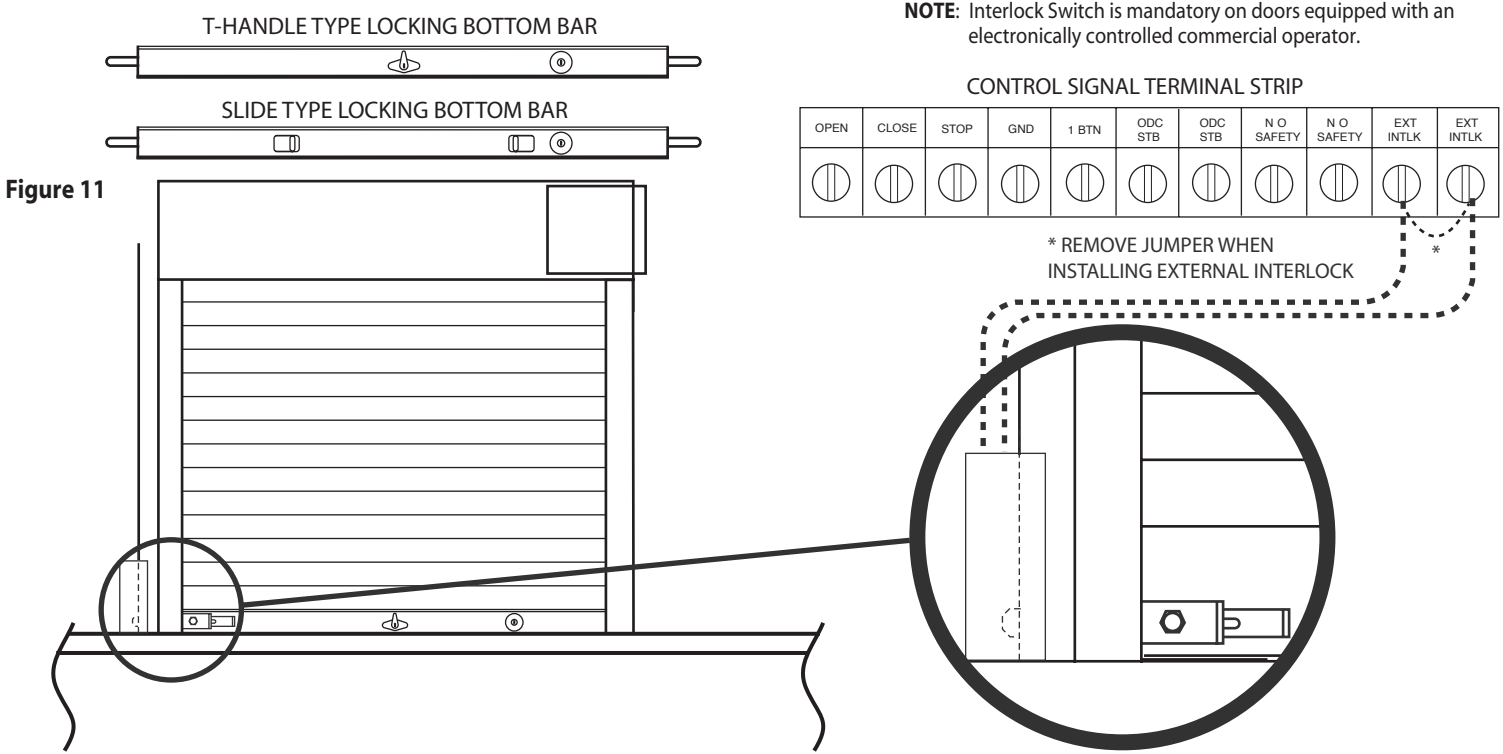


Figure 11

External Radio Installation

To Add the External Radio

1) Plug the pigtail with the 3-terminal strip attached (provided) onto the plug connector marked "EXT RAD." **Fig. 12**.
2) Make wiring connections to the terminal strip per the diagram below.

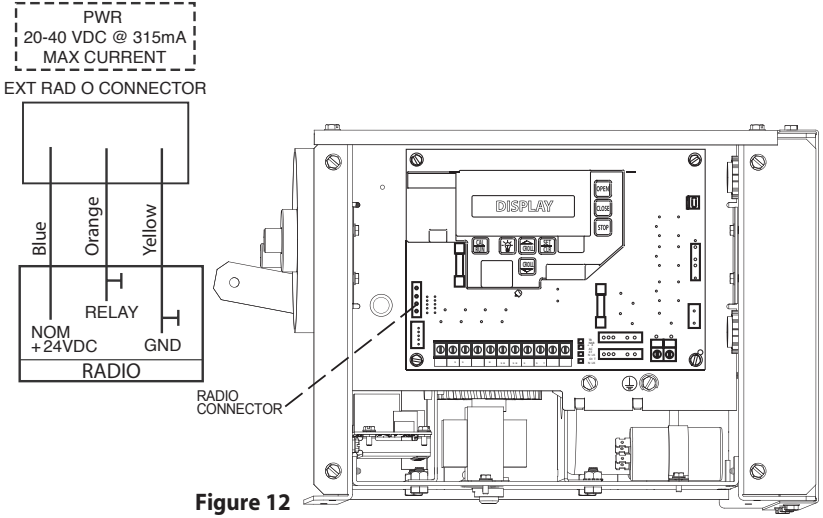


Figure 12

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 door controls. Keep the remote control (where provided) away from children.
3) Personnel should keep away from a door in motion and keep the moving door in sight until it is completely closed or opened. NO ONE SHOULD CROSS THE PATH OF A MOVING DOOR.
4) Test the door's safety features at least once a month. After adjusting either the force or the limit of travel, retest the door operator's safety features.
5) For products having a manual release, if possible, use the manual release only when the door is closed. Use caution when operating the release while the door is open. Weak or broken springs may cause the door to fall rapidly, causing severe injury or death.
6) KEEP DOOR PROPERLY OPERATING AND BALANCED. See Door Manufacturer's Owner's Manual. An improperly operating or improperly balanced door could cause severe injury or death. Have only trained door systems technicians make repairs to cables, spring assemblies, other hardware and any wooden blocks or like items to which they may be attached.
7) SAVE THESE INSTRUCTIONS.

Section 6: Operator Setup Procedure

Control Panel

These operators include a full function control panel including a liquid crystal display (LCD), calibration keys and Open, Close and Stop keys for on board operator control. See **Fig. 1**. The open, close and stop keys function as a 3-button wall control. The Display will show current operator conditions and calibration information. Due to limited character space, some displays will be abbreviated. See Appendix C (pgs. 10.5-10.7) for full display descriptions.

The operators also include a non-volatile memory. The unit will remember all calibration settings plus error code and run code logs, if power is removed from unit.

DANGER: After power is supplied to the operator, **Do Not** make contact with components inside the control panel except for the Keypad Keys. **Fig. 1**.

Apply Power to the Operator Now

Control Operating Modes

Operator control boards operate in two modes: Run Mode and Calibration Mode. The control board should normally operate in the Run Mode. The operator is calibrated in Calibration Mode.

With the operator standing idle:

PRESS CAL/RUN TO TOGGLE BETWEEN OPERATING MODES.

- The first display in calibration mode is "SET CLOSE DIR."
- The display in run mode will be one of the condition codes listed in Appendix C.

WARNING: DO NOT calibrate operator or operate door unless doorway is in sight and free of obstructions. Keep people clear of opening while door is moving.

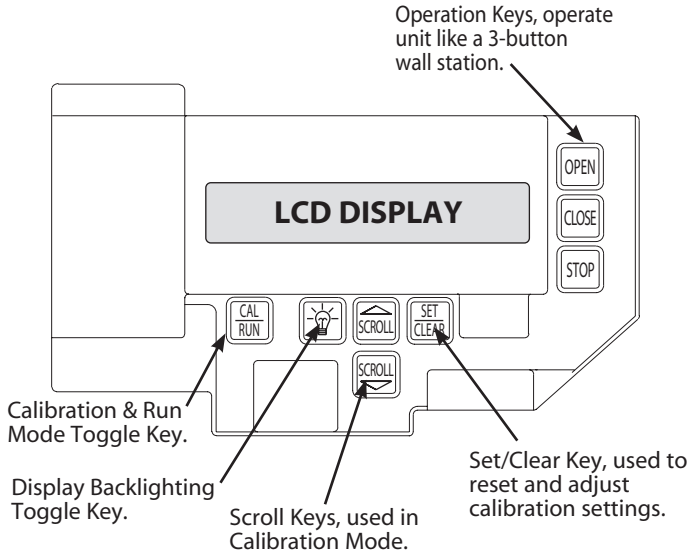


Figure 1

Setting Close Direction

The direction of motor rotation depends on mounting position. This setting is used to insure the door is closing and opening according to the input commands.

1) If operator is in RUN mode, press CAL/RUN to enter calibration mode.
2) Press SCROLL until "SET CLOSE DIR" is displayed. **Figure 2**.
2) Press SET/CLEAR to begin the calibration procedure and advance to the next screen. **Figure 3**.
3) Briefly press the CLOSE key. *(Pressing the Scroll key at this point will exit this control function.)*
   - The display will read " DID DOOR CLOSE? " **Figure 4**
4) Press SCROLL key (up or down) to toggle between YES and NO. **Figure 5**.
   - If YES is selected, no change to operator calibration is made. If NO is selected — the POD will change the operator's down direction.
5) Press the SET/CLEAR key.
6) Press CAL/RUN to return to run mode or, press SCROLL to shift to another function.

Figure 2

Figure 3

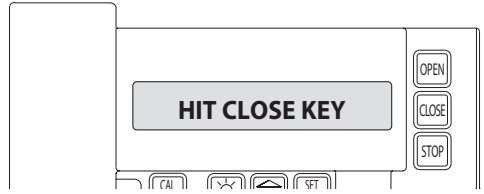
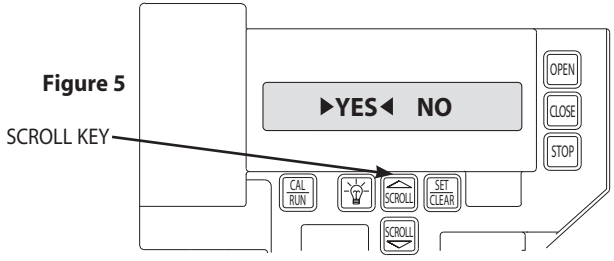


Figure 4

Figure 5



Setting Travel Limits

UP and/or DOWN

1) If operator is in RUN mode, press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "UP LIMIT>CLR " or "DOWN LIMIT>CLR " **Figure 7**.
3) Jog the door using the OPEN or CLOSE key until you reach the desired height.
4) Press SET/CLEAR key to switch display to "UP LIMIT>SET " or "DOWN LIMIT>SET ." **Figure 8**.
5) Press a SCROLL key to shift to a new function and lock in the limit setting.
6) Press CAL/RUN to return to run mode.

Resetting Travel Limits

UP and/or DOWN

1) If operator is in RUN mode, press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "UP LIMIT>SET " or "DOWN LIMIT>SET." **Figure 8**.
3) Press SET/CLEAR to switch display to "UP LIMIT>CLR" or "DOWN LIMIT>CLR"
4) Jog the door using the OPEN or CLOSE key until you reach the desired height.
5) Press SET/CLEAR to switch display to "UP LIMIT>SET" or "DOWN LIMIT>SET"
6) Press CAL/RUN to return to run mode.

NOTE: The recommended setpoint for the DOWN Travel Limit is normally at approximately 2 inches off the floor. This final distance will be covered by the Limit Overrun Function to establish a more accurate seal.

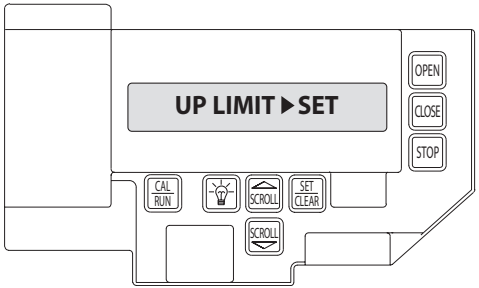


Figure 7

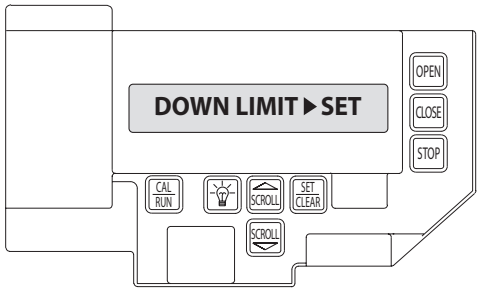


Figure 8

Setting Limit Overrun

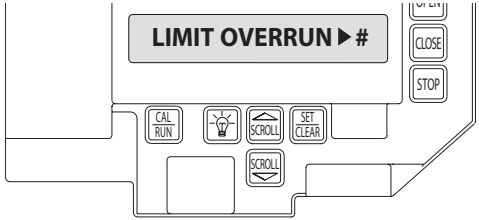
This Setting is a matter of trial and Error

1) If operator is in RUN mode, press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "LIMIT OVERRUN>#" where # is the increment of travel beyond the CLOSE Limit ranging from 0 to 9. Zero turns off the Overrun function and the door stops at the DOWN Limit. Nine is the maximum distance the door will travel passed the limit. This function is used to insure a good seal at the bottom of the door. **Figure 9**.
3) Press SET/CLEAR key to toggle between 0 and 9—one digit at a time.
4) Pick a value and operate the door. Adjust as necessary.
5) Press a SCROLL key to shift to a new function and lock in the setting.
6) Press CAL/RUN to return to run mode.

NOTE: The actual distance that the Overrun function covers is variable depending on model of operator and size of the door (nominally about 2 inches of travel).

WARNING: The Limit Overrun function will override external reversing devices, including photocells and sensing or reversing edges. Therefore, any externally connected devices will be disabled during that portion of door travel which is controlled by the Limit Overrun function.

Figure 9



Setting Open and Close Modes (Constant vs Momentary Contact)

OPEN

1) If operator is in RUN mode, press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "OPEN MODE>MOM" "OPEN MODE>C-STP."**Figure 10**.
   - MOM=momentary contact, meaning you **press and release** the OPEN or CLOSE key and **the door will continue to move** until it reaches its travel limit. (See NOTE)
   - C-STP=constant contact-stop, meaning **if you release the key** prior to the door reaching its travel limit, **the door will stop**.
3) Press SET/CLEAR key to toggle between "OPEN MODE>C-STP" or "OPEN MODE>MOM" on the display.
4) Press a SCROLL key to shift to a new function and lock in the setting.
5) Press CAL/RUN to return to run mode.

CLOSE

1) If operator is in RUN mode, press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "CLOSE MODE>MOM," "CLOSE MODE>C-STP" or "CLOSE MODE>C-REV." **Figure 10**.

   MOM=momentary contact, meaning you **press and release** the OPEN or CLOSE key and **the door will continue to move** until it reaches its travel limit. (See NOTE)
   - C-STP=constant contact-stop, meaning **if you release the key** prior to the door reaching its travel limit, **the door will stop**.
   - C-REV=constant contact-reverse, meaning **if you release the key** prior to the door reaching its travel limit, **the door will reverse direction**. (See NOTE)
3) Press SET/CLEAR key to toggle between "CLOSE MODE>C-STP" or "CLOSE MODE>C-REV" or "CLOSE MODE>MOM" on the display.
4) Press a SCROLL key to shift to a new function and lock in the setting.
5) Press CAL/RUN to return to run mode.

NOTE: Momentary contact **(MOM)** or Constant Reverse (**C-REV**) may not be used unless both the OPEN and CLOSE Limits have been set.

In situations where an external reversing device is either not installed or not operating properly, Constant Contact **(C-STP)** MUST BE USED.

WARNING: If momentary contact close control is to be used, a monitored external reversing device such as a photocell system or sensing edge switch must be used. See pages 5.5-5.6 for installation of entrapment protection devices.

NOTE: During adjustment of a Travel Limit, the Open and Close Modes will automatically fail-safe to Constant Contact until the Limit has been set or reset. At that time the Open and Close Modes will revert to their previous setting.

NOTE: THIS OPERATOR MUST COMPLETE 2 FULL TRAVEL CYCLES BEFORE THE MODE CAN BE SET.

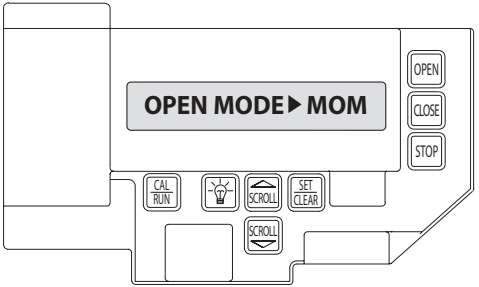


Figure 10

Setting Mid-Stop Limit

The operator includes a programmable Mid-Stop. This feature allows the operator to stop at a user selectable point when opening. It is used when operating very tall doors that only open to their full height occasionally. The Mid-Stop does not effect the operator when closing. To operate door to full open position from mid-stop, press open button again.

NOTE: Setting of the MID-STOP should only be performed AFTER Travel Limit and Max Run Timer settings have been made.

1) Press CAL/RUN to enter calibration mode.
2) Press the CLOSE to close the door to the down limit.
3) Press SCROLL until display reads "MID-STOP >CLR" **Figure 14**

NOTE: If the display reads MID-STOP > SET at this point, first clear MID-STOP as described below then repeat steps 1-3 and continue.

4) Press the OPEN to open the door to desired mid-stop height.
5) Press SET/CLEAR until the display reads "MID-STOP > SET"
6) Press CAL/RUN to return to run mode.

To CLEAR the Limit

1) Press CAL/RUN to enter calibration mode.
3) Press SCROLL until display reads "MID-STOP >SET"
5) Press SET/CLEAR until the display reads "MID-STOP > CLR"
8) Press CAL/RUN to return to run mode.

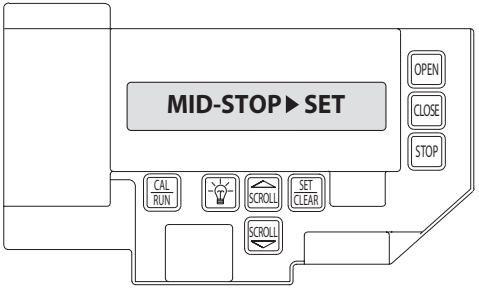


Figure 14

Resetting the MRT *(The Max Run Timer is set automatically once the unit is cycled between Limits. The Max Run Timer prevents the unit from running continuously in the event of a problem. The MRT's are set to the time required to run from one limit to the other, plus 5 seconds (nominal). When the MRT is exceeded, the operator stops and will not respond to any command until it is reset by pressing one of the calibration keys or by cycling power to the unit.*

TO RESET

1) Press CAL/RUN to enter calibration mode.
2) Press SCROLL (up or down) until display reads "MAX RUN TMR > SET." **Fig. 15**.
3) Press SET/CLEAR until display reads "MAX RUN TMR > CLR."
4) Press CAL/RUN to return to RUN mode.
5) Cycle the door between limits.

NOTE: **The Max Run Time must be reset each and every time the Travel Limits are adjusted.**

CAUTION: The MID-STOP feature must be turned off in order to properly set the Max Run Timer.

Monitored Reversing Devices

ODC Safe-T-Beams® (OPTIONAL)

1) If operator is in RUN mode, press CAL/RUN to enter calibration
2) Press SCROLL (up or down) until display reads "ODC STB>ON" "ODC STB>OFF" **Figure 16**
3) Press SET/CLEAR key to toggle between ON and OFF.
4) Press SCROLL (up or down) to shift to a new function and lock setting.
5) Press CAL/RUN to return to run mode.

WARNING: Photocell systems provide entrapment protection when mounted near the doorway in such a way that the lower portion of an individuals leg will break the photocell beam during normal walking through the doorway.

NOTE: Installation of Series II Monitored Photocells DOES NOT make the GCX unit legal for residential use. The Genie® Company strictly prohibits any installation of a commercial unit in any residentially zoned construction.

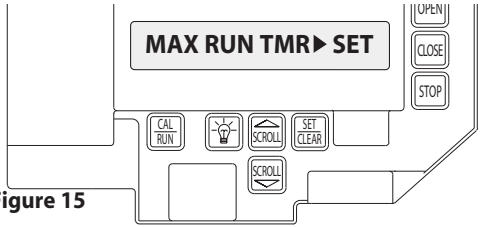


Figure 15

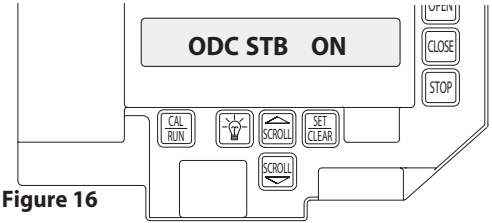


Figure 16

Current UL Approved Monitored Reversing Devices:

1) **MillerEdge ME and MT series monitored edge sensors used in combination with Timer-Close Module P/N OPABTCX.S.**
2) **MillerEdge ME and MT series monitored edge sensors used in combination with OPAKMEIGX.S Interface Module. (Direct connect through STB inputs).**
3) **Residential Safe-T-Beam® Monitored Photocells from The Genie® Company, model OSTB-BX (P/N 38176R.S).**
4) **Series II Safe-T-Beam® Monitored Photocells (P/N OPAKPE.S).**
5) **Monitored Photocells P/N OPAKPEN4GX.S.**

Section 7: Special Operator Features (No user input)

Operator Cycle Count

1) Press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "CYCLES>1,2,3 etc. where the number is the number of open/close cycles the operator has performed. **Figure A**.
3) Press CAL/RUN to return to run mode.

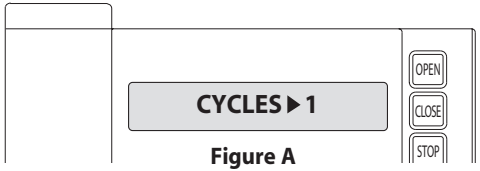


Figure A

GDO and Display Firmware

1) Press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "GDO V# > ######." **Figure B**. This display will cycle between the version number of the current GDO firmware and the current Display Firmware.
3) Press CAL/RUN to return to run mode.

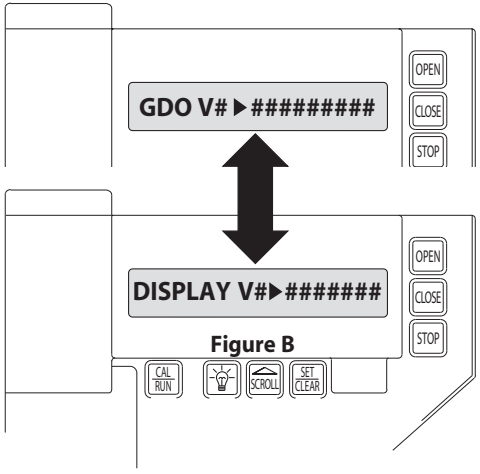


Figure B

Operator Type Fig. 3

Operator circuit boards are available for use in jackshaft or trolley configurations. The same control board is used for either configuration, however the control board must be set for the appropriate GDO configuration. A board set for trolley mode will not work in a jackshaft operator and vice-versa.

NOTE: The GDO type is factory set. The installer should not have to set this feature. However, if the GDO type is inadvertently changed, or if a board needs to be replaced in the field, follow these instructions to set GDO type.

1) Press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "GDO TYPE > ."
   This will display the current GDO type.
3) Press SET/CLEAR until display indicates correct GDO type (J-SHAFT).
4) Press CAL/RUN to return to run mode.

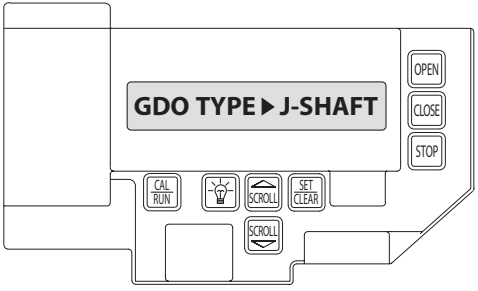


Figure 3

Section 8: Troubleshooting

Display Operation in Run Mode

These operators display their status on the integrated display. Each time the operator runs, stops, reverses or refuses to run, the display will indicate why the action did, or did not, take place.

Once an error code has been generated, the operator will continue to display the error code while the operator is not running. This error code can be cleared by pressing the STOP button or STOP key on the keypad. The error code will automatically clear when the operator stops at the down limit. Error codes will continue to be stored in the operator's Error Code Memory after they have been cleared from the display in the Run Mode.

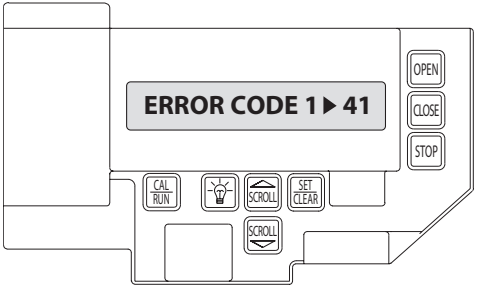


Figure 1

Error Codes

To aid in troubleshooting problems, these operators include an error code memory that stores the last 10 error events. These codes are stored with or without power. The last error code detected is also displayed on the LCD until the stop button or key is pressed or the operator stops at the down limit.

The error code memory stores the last 10 error codes in sequence. Once 10 codes are stored, the oldest code is erased to make room for the newest code. These codes are displayed in calibration mode. The display will flash the number of the error code and the 2-digit error code followed by a description of the error code. ***Fig. 1 & 2****.*

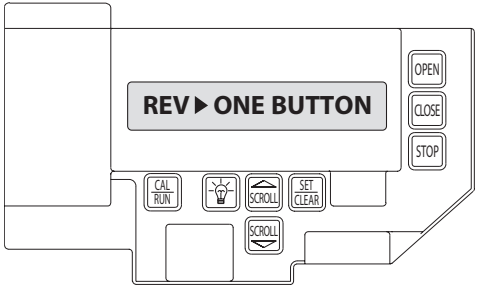


Figure 2

Error Codes (continued)

To view the error code memory:

1) Press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "ERROR CODE 1 >".
   - The display will begin flashing the error code number and 2-digit error code followed by its description.
   - Reminder: Error code number 1 is the latest code generated.
3) Press SET/CLEAR. The display will now read "ERROR CODE 2 > ." (This is the error code which was generated before error code 1.)
4) Repeat step 3 until all 10 error codes have been displayed or move on to step 5 when ready.
5) Press CAL/RUN to return to run mode.

NOTE: For all error codes see Appendix C, Sections 10.6 - 10.7.

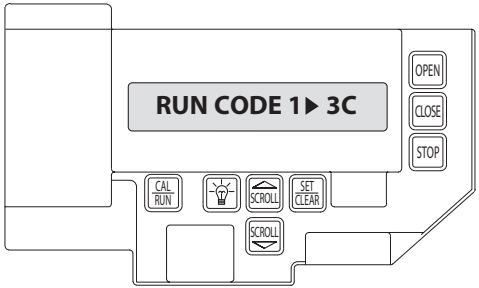


Figure 3

Run Codes

The operators also include a run code memory that stores the last 10 run events. These codes are stored with or without power. Each time the operator runs or stops, it generates a code that it stores in this memory (Why the operator ran or stopped). Used together with the error code memory, it becomes a powerful troubleshooting aid.

The run code memory stores the last 10 codes in sequence. Once 10 codes are stored, the oldest code is erased to make room for the newest code. These codes are displayed in calibration mode. The display will flash the number of the run code and the 2-digit run code followed by a description of the run code. ***Fig. 3 & 4****.*

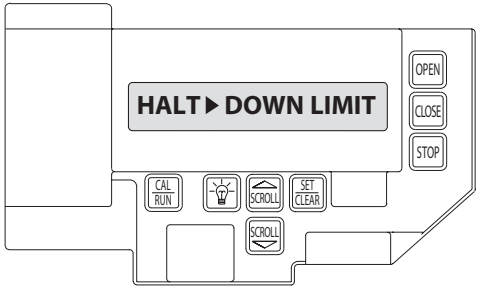


Figure 4

Run Codes (continued)

To view the run code memory:

1) Press CAL/RUN to enter calibration mode.
2) Press SCROLL until display reads "RUN CODE 1 > ."
   - The display will begin flashing the run code number and code followed by its description.
   - Remember: run code number 1 is the latest code generated.
3) Press SET/CLEAR. The display will now read "RUN CODE 2 > ." (This is the run code which was generated before run code 1.)
4) Repeat step 3 until all 10 run codes have been displayed or move on to step 5 when ready.
5) Press CAL/RUN to return to run mode.

NOTE: For all run codes see Appendix C, Section 10.5.

TROUBLESHOOTING EXAMPLE USING RUN AND ERROR CODE MEMORIES. Fig. 5

1. In Calibration Mode, display and write down each Run Code and Error Code stored in memory.

2. List as shown in Fig. 5.

3. Refer to Appendix C to interpret the codes.

In this example, the operator was opened using the OPEN key on the keypad and stopped at the up limit. The OPEN wall button was then activated, causing the "6D" code to be generated since the operator could not open when it is already at the up limit. The CLOSE wall button was then activated, causing the operator to close. While closing, the Normally-Open (N-O) Safety Input was activated, causing the operator to stop and then reverse, stopping at the up limit.

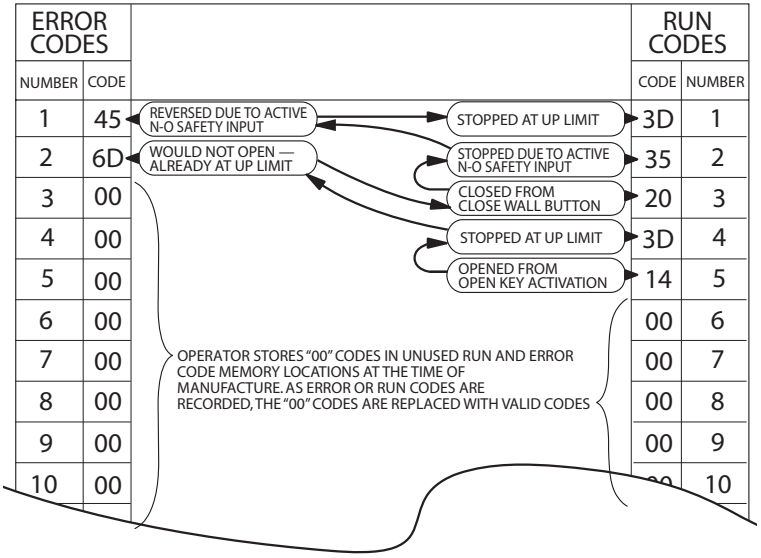


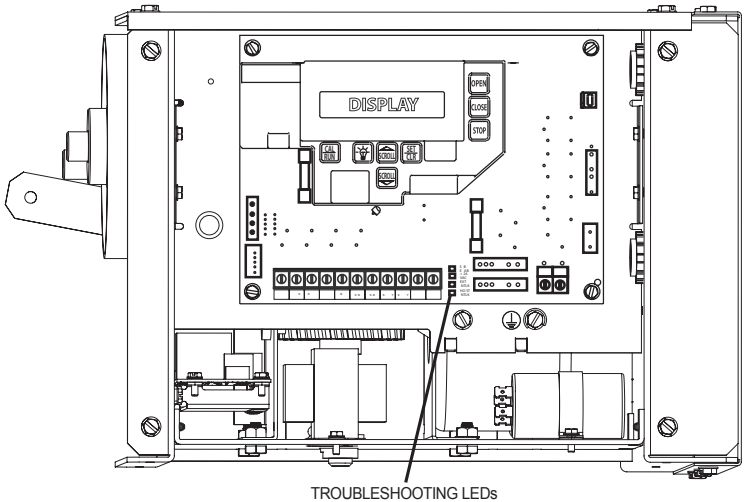
Figure 5

LED Indicators Fig. 6

The operators include a self-diagnostic circuit board using troubleshooting LED indicators to signal the technician of a problem.

LED	ON	OFF
STB ENABLE	STB ENABLED	STB DISABLED
+24 VOLTS DC	POWER AVAILABLE	1. CHECK AC POWER SUPPLY 2. CHECK FUSES
EXT INTLK	INTLK ENABLED	1. INTLK SWITCH OPEN 2. CHECK POWER SUPPLY 3. CHECK MAIN POWER FUSE 4. CHECK SECONDARY FUSE (2A)
HOIST INTLK	INTLK ENABLED	1. INTLK SWITCH OPEN 2. HOIST RELEASE NEEDS RESET 3. INTLK CONNECTOR NOT PLUGGED IN 4. INTERLOCK DEFECTIVE

Figure 6



Safe-T-Beam® Monitored Photocell Self-diagnostic Troubleshooting Chart

SOURCE (RED LED)	SENSOR (GREEN LED)	INDICATED CONDITION	REQUIRED ACTION
● ON	● ON	NORMAL OPERATION	NONE REQUIRED
○ OFF	○ OFF	1. POWER HEAD NOT POWERED 2. WIRING FROM POWER HEAD BAD	1. CHECK BREAKERS, FUSES, PLUGS 2. CHECK WIRING FOR OBVIOUS SHORTS
○ OFF	● ON	1. WIRING TO SOURCE MISSING OR BAD 2. POWER HAS BEEN INTERRUPTED	1. CHECK WIRING 2. REMOVE POWER AND REAPPLY
2 BLINKS, PAUSE (REPEAT)	● ON	1. BEAM NOT ALIGNED 2. BEAM OBSTRUCTED 3. SENSOR DEFECTIVE	1. CHECK ALIGNMENT 2. CHECK FOR OBSTRUCTION 3. CALL CUSTOMER SERVICE
2 BLINKS, PAUSE (REPEAT)	○ OFF	1. WIRE TO SENSOR MISSING OR BAD 2. SENSOR DEFECTIVE	1. CHECK WIRING 2. CALL CUSTOMER SERVICE
3 BLINKS, PAUSE (REPEAT)	● ON	1. SENSOR RECEIVING INTERFERENCE	1. ATTEMPT TO DETERMINE SOURCE OF INTERFERENCE 2. CALL CUSTOMER SERVICE
4 BLINKS, PAUSE (REPEAT)	● ON	1. SOURCE NOT SENDING PULSES 2. SOURCE DEFECTIVE	1. CALL CUSTOMER SERVICE 2. CALL CUSTOMER SERVICE

⚠ **WARNING:** ACTUATING THE OPERATOR BY USING CONSTANT CONTACT ON THE CLOSE BUTTON WILL OVERRIDE EXTERNAL REVERSING DEVICES, INCLUDING PHOTOCELLS.

⚠ **WARNING**: THE GENIE® COMPANY RECOMMENDS THAT LINE VOLTAGE WIRING BE PERFORMED BY A QUALIFIED ELECTRICIAN. SEE SECTION 5 FOR ADDITIONAL WIRING INSTRUCTIONS.

Section 9: Service and Maintenance

Maintenance Schedule

The following table provides a schedule of recommended Service and Maintenance items to be completed by a trained service representative.

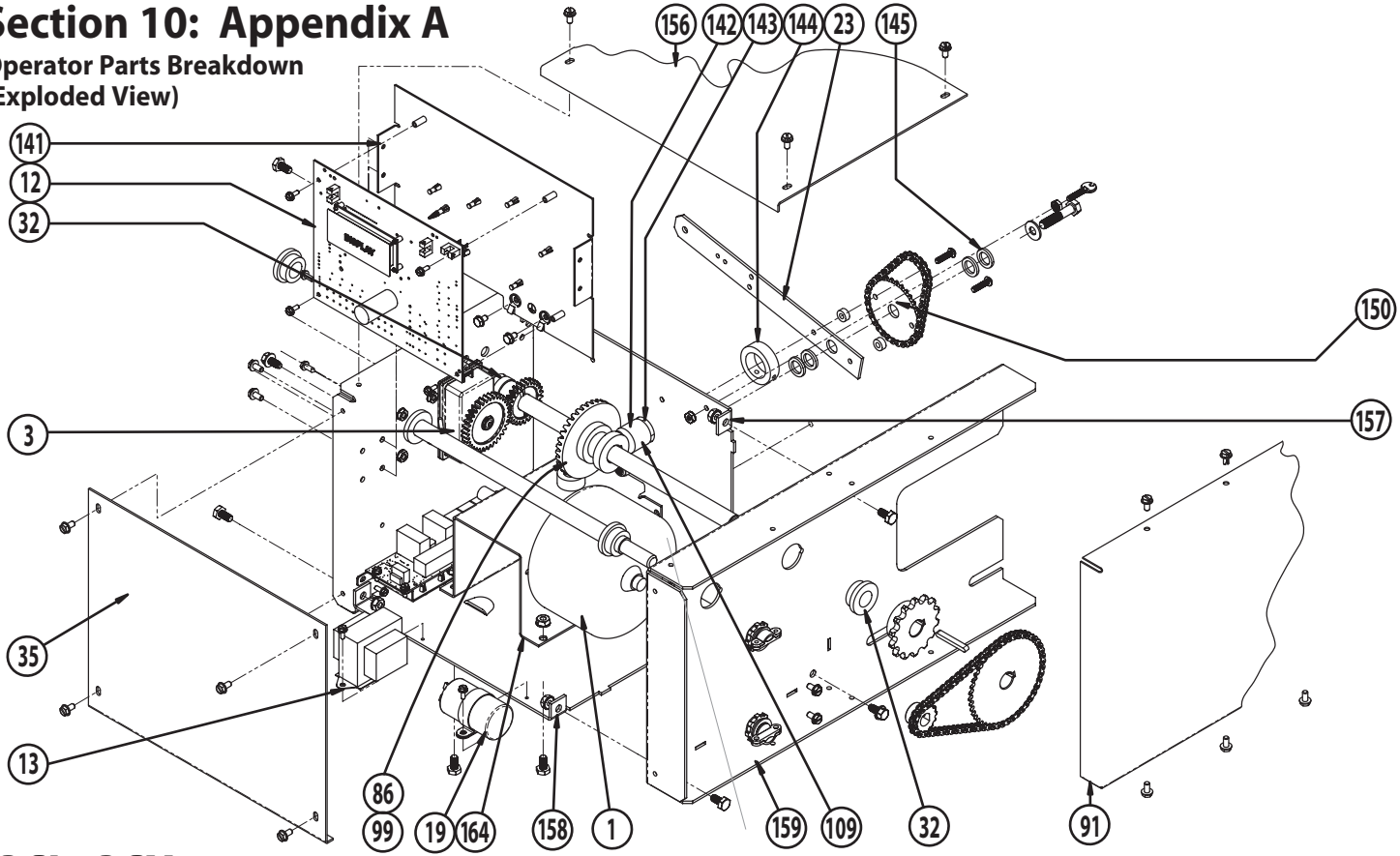
CAUTION: Failure to perform the recommended Service & Maintenance may result in premature failure of the operator.

SERVICE ITEM	SERVICE INTERVAL (FREQUENCY)			
	MONTHLY	EVERY 6 MO. OR 5,000 CYCLES	EVERY 12 MO. OR 10,000 CYCLES	EVERY 36 MO. OR 30,000 CYCLE
MANUAL OPERATION OF DOOR		●		
CHECK DRIVE CHAINS AND LUBRICATE			●	
* PHOTOCELL/ SENSING EDGE OPERATION	●			
CHECK FOR LOOSE OR MISSING HARDWARE			●	
CHECK LIMIT POSITION				●
GEAR TRAIN WEAR				●

* If Installed.

Section 10: Appendix A

Operator Parts Breakdown (Exploded View)



Section 10: Appendix A

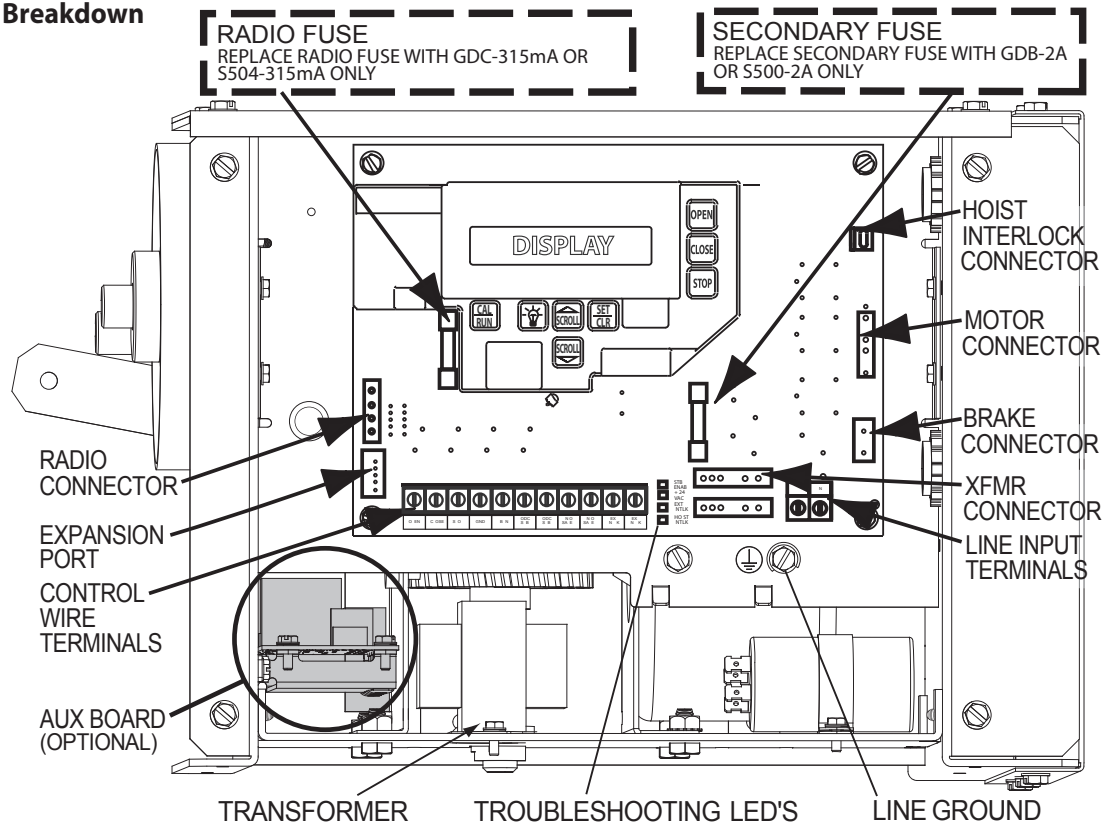
Operator Parts Breakdown (Parts List)

PARTS LIST		
TEM NO.	PART NUMBER	DESCRIPTION
1	108563.0001	ELECTRIC MOTOR
3	111421.0001.S	LIMIT MODULE KIT
12	112365.0001.S	KIT, PCB
13	110846.0001.S	TRANSFORMER
19	107871.0001.S	CAPACITOR
23	108822.0001.S	RELEASE LEVER
32	106062.0002.S	SHAFT BEARING
35	108802.0001	COVER POWERHEAD
86	108609.0001	OUTPUT HELICAL GEAR
91	108807.0001.S	CHAIN GUARD
99	108608.0001.S	WORM GEAR
109	108796.0001	OUTPUT SHAFT
141	111629.0001	MAIN CIRCUIT BOARD INSULATOR
142	108855.0001	DENTIL
143	105961.0001	OUTPUT PINION THRUST WASHER
144	077852.0000	SET COLLAR
145	106124.0007	WASHER, NYLON
150	108819.0001	OUTPUT SPROCKET
156	108802.0001	OPERATOR CHASSIS, COVER
157	111933.0001	MAIN FRAME, BACK
158	111679.0002	MAIN FRAME
159	111932.0001	FRAME SIDE MOUNTING, RH
	111932.0002	FRAME SIDE MOUNTING, LH
164	111950.0001	FRAME ASSY, MTR & GEAR

** CONTACT DEALER FOR PROPER PART BASED ON YOUR SPECIFIC MODEL.

Section 10: Appendix A

Control Board Area Breakdown



Section 10: Appendix B

Screw Terminal Assignments

INPUT		FUNCTION	CONNECTION TYPE
11-POSITION TERMINAL BLOCK INSIDE ELECTRIC BOX	OPEN	Causes door to open if not at Up Limit. Causes a closing door to reverse.	Normally-Open Dry Contact to GND.
	CLOSE	Causes door to close if not at Down Limit.	Normally-Open Dry Contact to GND.
	STOP	Causes a moving door to stop. Prevents the operator from running.	Normally-Closed Dry Contact to GND.
	GND	Common ground connection for Open, Close, Stop & 1-Btn Inputs.	
	1-BTN	Causes door to open if not at Up Limit or Mid-Stop Limit. Causes door to close if at Up Limit or Mid-Stop Limit. Causes door to stop if opening. Causes a closing door to reverse.	Normally-Open Dry Contact to GND.
	ODC STB	Reverses a closing door if photocell beam is blocked. NOTE: STB's must be enabled in Calibration Mode.	ODC Series II Safe-T-Beams® ONLY to these inputs. (not polarity sensitive)
	ODC STB	Reverses a closing door if photocell beam is blocked. NOTE: STB's must be enabled in Calibration Mode.	ODC Series II Safe-T-Beams® ONLY to these inputs. (not polarity sensitive)
	N-O REVERSE	Causes a closing door to reverse. NOTE: Will not open a stopped door.	Normally-Open 2-Wire Non-Monitored Edge Sensor. (not polarity sensitive)
	N-O REVERSE	Causes a closing door to reverse. NOTE: Will not open a stopped door.	Normally-Open 2-Wire Non-Monitored Edge Sensor. (not polarity sensitive)
	EXT INTLK	Causes a moving door to stop. Prevents the operator from running when contact is open. Operates even if microcontroller is non-functional.	Normally-Closed dry contacts. (board will energize these contacts at nominal +24VDC).
	EXT INTLK	Causes a moving door to stop. Prevents the operator from running when contact is open. Operates even if microcontroller is non-functional.	Normally-Closed dry contacts. (board will energize these contacts at nominal +24VDC).
2-POSITION TERMINAL BLOCK (INSIDE ELECTRIC BOX)	L1 / L1	Power to operator.	120VAC: Connect to Line (Hot)
	N / L2	Power to operator.	120VAC: Connect to Neutral
RADIO AND ACCESSORIES PIGTAIL	PWR	Power for radio & other accessories. +20 to +40VDC, fused at 315mA (F1).	Connect to radio or other accessory's power input.
	RAD (Radio Input Control)	Causes door to open if not at Up Limit or Mid-Stop Limit. Causes door to close if at Up Limit or Mid-Stop Limit. Causes a closing door to reverse.	
	GND	Common ground connection for PWR and RAD terminals.	Connect to radio or other accessory's ground input.
PLUG CONNECTIONS INSIDE ELECTRIC BOX	EXPANSION PORT	Connects accessory modules to operator.	Accessory Module Ribbon Cable.
	TRANSFORMER	Connects main transformer to control board.	Transformer Plug.
	BRAKE	Connects brake solenoid to control board.	Brake Solenoid Plug.
	MOTOR	Connects motor and capacitor to control board.	Motor Plug.
	HOIST INTLK	Causes moving door to stop. Prevents the operator from running. Operates even if microcontroller is non-functional.	Hoist Interlock Plug or Jumper.
	LIMIT SENSOR	Causes door to stop at top and bottom of normal travel.	Limit Sensor Plug.

Section 10: Appendix C

Run Code Displays

Condition Code	DISPLAY	Condition Code Description
0C	**IDLE > DOWN LIMIT**	**STANDING BY AT DOWN LIMIT (NOTE: THIS MESSAGE IS DISPLAYED IF BOTH LIMITS ARE ACTIVE)**
0D	IDLE > UP LIMIT	STANDING BY AT UP LIMIT
0E	IDLE > MID STOP	STANDING BY AT MID-STOP LIMIT
0F	IDLE > NO LIMIT	STANDING BY BETWEEN LIMITS
10	**OPENING > OPEN BTN**	**OPENING FROM OPEN BUTTON**
11	OPENING > ONE BTN	OPENING FROM 1 BUTTON
12	OPENING > RADIO	OPENING FROM RADIO
13	OPENING > AUX OPEN	OPENING FROM AUXILIARY OPEN INPUT
14	OPENING > OPEN KEY	OPENING FROM KEYPAD OPEN KEY
20	**CLOSING > CLOSE PB**	**CLOSING FROM CLOSE BUTTON**
21	CLOSING > ONE BTN	CLOSING FROM 1 BUTTON
22	CLOSING > RADIO	CLOSING FROM RADIO
24	CLOSING > CLOSE KP	CLOSING FROM KEYPAD CLOSE KEY
2A	**CLOSING > TCM CLS**	**CLOSING FROM TIMER CLOSE MODULE**
2B	CLOSING > FDM CLS	CLOSING FROM FORE DOOR MODULE
30	**HALT > WALL BUTTON**	**GDO STOPPED BECAUSE STOP OR OPEN BUTTON WAS ACTIVATED, POSSIBLY STARTING A REVERSAL**
31	HALT > ONE BUTTON	GDO STOPPED BECAUSE 1 BUTTON WAS ACTIVATED, POSSIBLY STARTING A REVERSAL
32	HALT > RADIO	GDO STOPPED BECAUSE RADIO INPUT WAS ACTIVATED, STARTING A REVERSAL
33	HALT > AUX. OPEN	GDO STOPPED BECAUSE AUXILIARY OPEN INPUT WAS ACTIVATED, STARTING A REVERSAL
34	HALT > KEYPAD KEY	GDO STOPPED BECAUSE KEYPAD STOP OR OPEN KEY WAS ACTIVATED, POSSIBLY STARTING A REVERSAL
35	HALT > N-O SAFETY	GDO STOPPED BECAUSE N-O REVERSING INPUT WAS ACTIVATED, STARTING A REVERSAL
36	HALT > ODC STB	GDO STOPPED BECAUSE ODC STB WAS BLOCKED, STARTING A REVERSAL
37	HALT > N-C SAFETY	GDO STOPPED BECAUSE N-C REVERSING INPUT WAS ACTIVATED, STARTING A REVERSAL
38	HALT > MON. EDGE	GDO STOPPED BECAUSE MONITORED EDGE SENSOR INPUT WAS ACTIVATED, STARTING A REVERSAL
39	HALT > DOOR FORCE	GDO STOPPED BECAUSE THE FORCE REQUIRED TO OPERATE THE DOOR WAS TOO HIGH, POSSIBLY STARTING A REVERSAL
3A	**HALT > LOSS OF C/C**	**GDO STOPPED BECAUSE CONSTANT CONTACT ON CONTROL REMOVED BEFORE REACHING A LIMIT, POSSIBLY STARTING A REVERSAL**
3B	HALT > SHUTDOWN	GDO STOPPED BECAUSE THE GDO DETECTED A FAULT SUCH AS AN OPEN INTERLOCK, OVERHEATED MOTOR, ETC.
3C	HALT > DOWN LIMIT	GDO STOPPED BECAUSE IT REACHED THE DOWN LIMIT
3D	HALT > UP LIMIT	GDO STOPPED BECAUSE IT REACHED THE UP LIMIT
3E	HALT > MID STOP	GDO STOPPED BECAUSE IT REACHED THE MID-STOP LIMIT
3F	HALT > MODULE FAIL	GDO STOPPED BECAUSE AN EXPANSION MODULE WAS NOT WORKING PROPERLY
40	**REV > OPEN BUTTON**	**GDO REVERSED BECAUSE THE OPEN BUTTON WAS ACTIVATED**
41	REV > ONE BUTTON	GDO REVERSED BECAUSE THE 1 BUTTON WAS ACTIVATED
42	REV > RADIO	GDO REVERSED BECAUSE THE RADIO INPUT WAS ACTIVATED
43	REV > AUX OPEN	GDO REVERSED BECAUSE THE AUXILIARY OPEN INPUT WAS ACTIVATED
44	REV > OPEN KEY	GDO REVERSED BECAUSE THE KEYPAD OPEN KEY WAS ACTIVATED
45	REV > N-O SAFETY	GDO REVERSED BECAUSE THE N-O REVERSING INPUT WAS ACTIVATED

Section 10: Appendix C

Error Code Displays

Condition Code	DISPLAY	Condition Code Description
46	REV > ODC STB	GDO REVERSED BECAUSE THE ODC STB WAS BLOCKED
47	REV > N-C SAFETY	GDO REVERSED BECAUSE THE N-C REVERSING INPUT WAS ACTIVATED
48	REV > MON. EDGE	GDO REVERSED BECAUSE THE MONITORED EDGE SENSOR WAS ACTIVATED
49	REV > DOOR FORCE	GDO REVERSED BECAUSE THE FORCE REQUIRED TO CLOSE THE DOOR WAS TOO HIGH
4A	**REV > LOSS OF C/C**	**GDO REVERSED BECAUSE CONSTANT CONTACT ON THE CONTROL WAS REMOVED BEFORE REACHING THE DOWN LIMIT**
4B	REV > MAX RUN TMR	GDO REVERSED BECAUSE THE CLUTCH SLIPPED OR SOME OTHER FAULT OCCURRED THAT ALLOWED THE GDO TO RUN TOO LONG
4F	REV > EXP MOD FAIL	GDO REVERSED BECAUSE AN EXPANSION MODULE WAS NOT WORKING PROPERLY
50	**STOP > HOT MOTOR**	**GDO STOPPED BECAUSE THE MOTOR WAS OVERHEATED**
51	STOP > OPEN MRT	GDO STOPPED BECAUSE THE CLUTCH SLIPPED OR SOME OTHER FAULT OCCURRED THAT ALLOWED THE GDO TO RUN OPEN TOO LONG
52	STOP > CLOSE MRT	GDO STOPPED BECAUSE THE CLUTCH SLIPPED OR SOME OTHER FAULT OCCURRED THAT ALLOWED THE GDO TO RUN DOWN TOO LONG
53	STOP > BRAKE FAULT	GDO STOPPED BECAUSE OF BRAKE ERRONEOUSLY ENGAGED
57	STOP > OPEN INTLK	GDO STOPPED BECAUSE THE HOIST INTERLOCK OR EXTERNAL INTERLOCK IS OPEN
58	STOP > WRONG GDO	GDO STOPPED BECAUSE THE BOARD IS SET FOR JACKSHAFT MODE, BUT INSTALLED IN A TROLLEY OPERATOR
59	STOP > DOOR FORCE	GDO STOPPED BECAUSE THE FORCE REQUIRED TO OPEN THE DOOR WAS TOO HIGH
5A	**STOP > WRONG LIMIT**	**GDO STOPPED BECAUSE THE UP LIMIT ACTIVATED WHEN CLOSING OR THE DOWN LIMIT ACTIVATED WHEN OPENING**
5B	STOP > WRONG DIR	GDO STOPPED BECAUSE THE DOOR MOVED IN THE WRONG DIRECTION
5C	STALL > DOWN LIMIT	GDO STOPPED BECAUSE IT COULDN'T LEAVE THE DOWN LIMIT DUE TO A SLIPPING CLUTCH OR OTHER PROBLEM
5D	STALL > UP LIMIT	GDO STOPPED BECAUSE IT COULDN'T LEAVE THE UP LIMIT DUE TO A SLIPPING CLUTCH OR OTHER PROBLEM
5E	STALL > MID-STOP	GDO STOPPED BECAUSE IT COULDN'T LEAVE THE MID-STOP LIMIT DUE TO A SLIPPING CLUTCH OR OTHER PROBLEM
5F	STALL > NO LIMIY	GDO STOPPED BECAUSE TRAVEL LIMITS HAVE NOT BEEN SET
60	**CHECK STOP BTN**	**GDO WON'T RUN BECAUSE THE STOP BUTTON IS ACTIVE**
61	TCM DISABLED	TIMER CLOSE WON'T WORK BECAUSE NO SAFETIES ARE ENABLED
62	NO RADIO >> C/C	RADIO INPUT WON'T WORK WITH OPEN OR CLOSE FUNCTION IN CONSTANT CONTACT MODE
63	CHECK AUX OPEN	GDO WON'T CLOSE BECAUSE AUXILIARY OPEN INPUT IS ACTIVE
64	CHECK STOP KEY	GDO WON'T RUN BECAUSE THE KEYPAD STOP KEY IS ACTIVE
65	CHECK N-O SAFETY	GDO WON'T CLOSE BECAUSE THE N-O REVERSING IS ACTIVE
66	CHECK ODC STB	GDO WON'T CLOSE BECAUSE THE ODC STB IS BLOCKED
67	CHECK N-C SAFETY	GDO WON'T CLOSE BECAUSE THE N-C REVERSING INPUT IS ACTIVE
68	CHECK MON. EDGE	GDO WON'T CLOSE BECAUSE THE MONITORED EDGE SENSOR IS ACTIVE
69	OVERHEATED MOTOR	GDO WON'T RUN BECAUSE THE MOTOR IS OVERHEATED
6A	**POWER WIRING ERROR**	**GDO WON'T RUN BECAUSE POWER SUPPLY WIRED INCORRECTLY**
6B	FIRE DOOR SHTDN	GDO WON'T RUN BECAUSE OF LOSS OF POWER
6C	NO RUN > DOWN LIM	GDO WON'T CLOSE BECAUSE ITS ALREADY AT THE DOWN LIMIT
6D	NO RUN > UP LIMIT	GDO WON'T OPEN BECAUSE ITS ALREADY AT THE UP LIMIT
6E	NO RUN > MID STOP	GDO WON'T RUN BECAUSE ITS AT OR ABOVE THE MID-STOP LIMIT & CAN'T RUN UP & A REVERSING INPUT IS PREVENTING IT FROM CLOSING
6F	EXP MODULE FAIL	GDO WON'T RUN BECAUSE AN EXPANSION MODULE FAILURE IS PREVENTING IT

Error Codes Displays (continued)

Condition Code	DISPLAY	Condition Code Description
70	**BOARD FAILURE 70**	**CONTROL BOARD FAILURE 70, CONTACT FACTORY TECHNICAL SERVICE DEPT.**
71	BOARD FAILURE 71	CONTROL BOARD FAILURE 71, CONTACT FACTORY TECHNICAL SERVICE DEPT.
74	BOARD FAILURE 74	CONTROL BOARD FAILURE 74, CONTACT FACTORY TECHNICAL SERVICE DEPT.
75	BOARD FAILURE 75	CONTROL BOARD FAILURE 75, CONTACT FACTORY TECHNICAL SERVICE DEPT.
76	BOARD FAILURE 76	CONTROL BOARD FAILURE 76, CONTACT FACTORY TECHNICAL SERVICE DEPT.
77	BOARD FAILURE 77	CONTROL BOARD FAILURE 77, CONTACT FACTORY TECHNICAL SERVICE DEPT.
80	**BOARD FAILURE 80**	**CONTROL BOARD FAILURE 80, CONTACT FACTORY TECHNICAL SERVICE DEPT.**
81	BOARD FAILURE 81	CONTROL BOARD FAILURE 81, CONTACT FACTORY TECHNICAL SERVICE DEPT.
82	BOARD FAILURE 82	CONTROL BOARD FAILURE 82, CONTACT FACTORY TECHNICAL SERVICE DEPT.
83	BOARD FAILURE 83	CONTROL BOARD FAILURE 83, CONTACT FACTORY TECHNICAL SERVICE DEPT.
84	BOARD FAILURE 84	CONTROL BOARD FAILURE 84, CONTACT FACTORY TECHNICAL SERVICE DEPT.
85	EXP PORT PROBLEM	EXPANSION PORT IS SHORT CIRCUITED, TRY DISCONNECTING EXPANSION MODULES OR CONTACT FACTORY TECHNICAL SERVICE DEPT.
86	BOARD FAILURE 86	CONTROL BOARD FAILURE 86, DISCONNECT EXPANSION MODULES. IF NO CHANGE, CONTACT FACTORY TECHNICAL SERVICE DEPT.
87	IEM FAILURE	RESERVED--NOT CURRENTLY USED
88	TCM FAILURE	TIMER CLOSE MODULE (TCM) HAS FAILED
89	FDM FAILURE	FIRE DOOR MODULE (FDM) HAS FAILED
8A	**AOM FAILURE**	**AUXILIARY OUTPUT MODULE (AOM) HAS FAILED**
8B	SPARE MOD FAILURE	RESERVED--NOT CURRENTLY USED
8C	LOW SYSTEM VOLTS	POWER SUPPLY LINE VOLTAGE LOW
8D	HI SYSTEM VOLTS	POWER SUPPLY LINE VOLTAGE HIGH
8E	REV INTERRUPTED	GDO LOST POWER OR ENCOUNTERED ANOTHER PROBLEM DURING THE REVERSAL PROCESS, REVERSAL IS COMPLETING NOW
8F	LIMIT MOD. FAIL	GDO WON'T RUN, LIMIT MODULE HAS FAILED
90	**DIAGNOSTIC MODE**	**GDO IS IN DIAGNOSTIC MODE, NORMAL FUNCTIONS ARE NOT ALLOWED**
A0	OPEN BTN BAD > PU	OPEN & CLOSE BUTTONS WON'T WORK, THE OPEN BUTTON WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A1	CLOSE BTN BAD > PU	OPEN & CLOSE BUTTONS WON'T WORK, THE CLOSE BUTTON WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A2	ONE BTN BAD > PU	1 BUTTON WON'T WORK, THE 1 BUTTON WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A3	RADIO BAD > PWR UP	RADIO INPUT WON'T WORK, THE RADIO INPUT WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A4	AUX OPEN BAD > PU	AUXILIARY OPEN INPUT WON'T WORK, THE AUXILIARY OPEN INPUT WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A5	OPEN KEY BAD > PU	KEYPAD OPEN & CLOSE KEYS WON'T WORK, THE OPEN KEY WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A6	CLOSE KEY BAD > PU	KEYPAD OPEN & CLOSE KEYS WON'T WORK, THE CLOSE KEY WAS ACTIVE WHEN THE GDO WAS POWERED-UP
A7	MULT KEYS BAD > PU	1 OR MORE KEYPAD CALIBRATION KEYS WON'T WORK, 1 OR MORE WERE ACTIVE WHEN THE GDO WAS POWERED-UP
AA	TCM BAD > POWER UP	RESERVED--NOT CURRENTLY USED
AB	FDM BAD > POWER UP	RESERVED--NOT CURRENTLY USED
B0	**OPENING > XMTR #**	**OPENING FROM TRANSMITTER # __**
B1	CLOSING > XMTR #	CLOSING FROM TRANSMITTER # __
B2	HALT > XMTR #	HALT FROM TRANSMITTER # __
B3	NO XMTR > CC	NO CONTROL FROM TRANSMITTER, CONSTANT CONTACT EMPLOYED AT LOCAL CONTROL

GENIE
COMMERCIAL LINE

Commercial Operator Limited Warranty

The Genie Company ("Seller") warrants to the original purchaser of this commercial door operator ("Product") subject to all of the terms and conditions hereof that the Product and all components thereof will be free from defects in materials and workmanship under normal use for the following period(s) measured from the date of installation

- Two (2) years or When the Operator exceeds 20 000 cycles of operation as measured by the integrated cycle counter contained in the Operator.

Seller's obligation under this warranty is specifically limited to repairing or replacing at its option any part which is determined by Seller to be defective during the applicable warranty period. Any labor charges are excluded and will be the responsibility of the purchaser.

This warranty is made to the original purchaser of the Product only and is not transferable or assignable. This warranty does not apply to any unauthorized alteration or repair of the Product or to any Product or component which has been damaged or deteriorated due to misuse neglect accident failure to provide necessary maintenance normal wear and tear or acts of God or any other cause beyond the reasonable control of Seller.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL SELLER BE RESPONSIBLE FOR OR LIABLE TO ANYONE FOR SPECIAL INDIRECT COLLATERAL PUNITIVE INCIDENTAL OR CONSEQUENTIAL DAMAGES even if Seller has been advised of the possibility of such damages. Such excluded damages include but are not limited to loss of goodwill loss of profits loss of use cost of any substitute product interruption of business or other similar indirect financial loss.

Claims under this warranty must be made promptly after discovery within the applicable warranty period and in writing to the Seller or to the authorized distributor or installer whose name and address appear below. The purchaser must allow Seller a reasonable opportunity to inspect any Product claimed to be defective prior to removal or any alteration of its condition. Proof of the purchase and/or installation date and identification as the original purchaser may be required.

ORIGINAL PURCHASER _____

INSTALLATION ADDRESS _____

SELLER: _____

SELLER S ADDRESS: _____

FACTORY ORDER #: _____

DATE OF INSTALLATION: _____

SIGNATURE OF SELLER: _____

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GENIE®

COMMERCIAL LINE

1 Door Drive
Mt. Hope, Ohio 44660