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## AC SLIDE MANUAL



SL-100AC | SL-150AC
AC SLIDE GATE OPERATORS MANUAL


CANADA


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## IMPORTANT SAFETY INSTRUCTIONS

## WARNING <br> TO REDUCE THE RISK OF INJURY:

## READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS. DO NOT START INSTALLATION UNTIL YOU HAVE READ AND UNDERSTAND THESE DIRECTIONS. IF THERE IS SOMETHING YOU DO NOT UNDERSTAND, PLEASE CALL US.

NEVER let children operate or play with gate controls.
Locate the control station and make sure it is (a) within sight of the gate and (b) at a minimum height of 5 feet so small children cannot reach it.

Install the enclosed entrapment warning signs next to the control station and in a prominent location.
For operators equipped with a manual release, instruct the end user on the correct operation of the manual release. Use the manual release only when the gate is not moving. It is advised that the power be turned off.

Always keep people and objects away from the gate. No one should cross the path of a moving gate.
The gate operator must be tested monthly. The gate must reverse on contact with a rigid object, or stop when an object activates the non-contact sensor(s). Always re-test the operator after adjusting the limits and/or force. Failure to adjust and re-test the gate operator properly may cause severe injury or death.

Keep gate(s) properly maintained. Have a qualified service technician make repairs to gate hardware and make proper adjustments to gate operator.

This gate entrance/exit is for vehicles only. Pedestrians must use a separate entrance.
There is nothing on a gate operator that is easily repaired or adjusted without a great deal of experience. Call a qualified gate service technician who knows your gate operator.

## SAVE THESE INSTRUCTIONS

# INSTALL THE GATE OPERATOR ONLY WHEN YOU HAVE READ THE FOLLOWING 

## BEFORE GATE OPERATOR INSTALLATION

- Confirm that the gate operator being installed is appropriate for the application.
- Confirm that the gate is designed and built according to the current published industry standards.
- Confirm that all appropriate safety features and safety accessory devices are being installed, including all entrapment protection devices.
- Make sure that the gate opens and closes freely (by hand) before installing the operator.
- Repair or replace worn or damaged gate hardware before installing the gate operator.
- Eliminate all gaps in the sliding gate below a 6 foot height that permits a $21 / 4$ " sphere to pass through any location. This includes the area of the adjacent fence covered when the gate is in the open position
- Eliminate all gaps in a swing gate below a 4 foot height that permits a 4" sphere to pass through any location. This includes the hinge area of the gate.


## GATE OPERATOR INSTALLATION

- Operator must be disconnected from the power source before attempting any installation of accessories.
- Install gate operator according to the installation instructions in this manual.
- Adjust the operator clutch or load sensing device to the minimum force setting that will allow for reliable gate operation.
- Install the operator inside the fence line. Do not install the operator on the public side of the fence line.
- Install a proper electrical ground to the gate operator.
- Controls intended for user activation must be located at least 6 feet 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.
- The stop and/or reset button must be located in the line of sight of the gate. Activation of the operator reset control shall not cause the operator to move.
- Install a minimum of 2 warning signs, one on each side of the gate where they are easily visible.
- Take pictures of the installation.
- Test all safety features for proper function before placing the automatic vehicular gate in operation.


## MAINTENANCE

- Train owners/users on the basic functions and safety features of the gate system, including how to turn off the power and operate the manual disconnect feature.
- Leave safety instructions, product literature, installation manual, and maintenance manual with the owner or end user.
- Explain to the owner or end user the importance of routine service and operator testing on a monthly basis.


## UL 325 CLASS TYPES AND OBSTRUCTION SENSING SYSTEMS

Each class must have (2) monitored entrapment protection devices in each entrapment zone to sense and react to obstructions within 2 seconds.

All-O-Matic's gate operators conform to the most rigid Class One.

## UL 325 CLASS TYPES

## CLASS ONE: RESIDENTIAL

- A vehicular gate operator intended for use in garages or parking areas associated with a residence of one to four single families.


## CLASS TWO: COMMERCIAL OR GENERAL PUBLIC ACCESS

- A vehicular gate operator intended for use at a commercial location or building, such as a multi-family housing units (five or more single family units), hotels, garages, retail stores, or other buildings accessible by or servicing the general public.


## CLASS THREE: INDUSTRIAL OR LIMITED ACCESS

- A vehicular gate operator intended for use at an industrial location or building, such as a factory, loading dock area, or other location not accessible by or intended to service the general public.

CLASS FOUR: RESTRICTED ACCESS

- A vehicular gate operator intended for use at a guarded industrial location or building, such as airport security areas or other restricted access locations not servicing the general public and where unauthorized access is prevented via supervision by security personnel.


## THE SIX TYPES OF OBSTRUCTION SENSING SYSTEMS

## TYPE A:

- Inherent entrapment protection system. This system must sense and initiate the reverse of the gate within 2 seconds of contact with a solid object.


## TYPE B1:

- Non-contact sensor (photoelectric sensor or equivalent). This system shall, upon sensing an obstruction in the direction of the gate travel, reverse the gate within a maximum of 2 seconds.


## TYPE B2:

- Contact sensor (edge device or equivalent). This system shall, upon sensing an obstruction in the direction of the gate travel, initiate the reversal of the gate within a maximum of 2 seconds.


## TYPE C:

- Inherent force limiting, inherent adjustable clutch, or pressure relief valve.


## TYPE D:

- Actuating device requiring continuous pressure to maintain opening or closing motion of the gate.


## SPECIFICATIONS



## SL-100 AC[FP] CONCRETE PAD

## TOP VIEW



## FRONT VIEW



## SL-150 AC CONCRETE PAD

## TOP VIEW



FRONT VIEW


## FRONT MOUNT INSTALLATION

FRONT VIEW


## OVERHEAD VIEW



SL-150AC


## REAR MOUNT INSTALLATION

## FRONT VIEW



## OVERHEAD VIEW



## CHAIN CONNECTION TO GATE



## ENTRAPMENT PROTECTION INSTALLATION

- A minimum of (2) monitored entrapment protection devices are REQUIRED for each entrapment zone.
- An entrapment zone is a location or point of contact where a person can become entrapped between a moving gate and a rigid object.
- The operator is equipped with an inherent entrapment protection system (ERD).
- The gate operator requires an external monitored entrapment protection device (non-contact photoelectric sensor or contact edge) for each entrapment zone prior to gate operation. The operator cycles power to the external entrapment protection device and checks for device signals. If the operator does not receive the correct feedback from the device, the gate will not operate.



## LOOP LAYOUT

- Below is a typical loop layout. When connecting to an All-O-Matic circuit board, use the following:
- SAFETY LOOP - Normally Closed (N.C.) Contacts
- EXIT/OPEN CMD - Normally Open (N.O.) Contacts (See page 22 for LPR-1 loop rack wiring)
- Loop wires MUST be twisted from the exit point of the loop saw cut to the gate operator.
- Twist loop wires 6 turns per foot, as shown below. Improper twisting of wires can cause loop issues.
- When using an inside and outside safety loop, loops must be WIRED IN SERIES.

WIRED IN SERIES

## OUTSIDE PROPERTY



## ELECTRICAL CONNECTION

## OPERATORS MUST BE PROPERLY GROUNDED!

- All gate operators MUST be properly grounded. This minimizes or prevents damage due to electrical charge, such as a near lightning strike or an electrical static discharge.
- Use a single wire for the ground. DO NOT splice two wires for the ground. If the wire breaks or is cut, replace it with a single length wire. NEVER use two wires for the ground.
- Check the local city code for proper earth ground rod type and grounding procedures.
- Use UL listed conduits for power wire enclosure.
- Use a minimum of a 20-AMP, dedicated circuit for power.

| OPERATOR WIRES | 120 VAC FROM BREAKER |
| :--- | :--- |
| BLACK | 120VAC (HOT) |
| WHITE | AC NEUTRAL |
| GREEN | GROUND |

ELECTRICAL CONNECTION BOX


## GATE TRAVEL ADJUSTMENT

Locate the limit switches (limit switches will be in the limit box on SL-150 AC) and follow the steps below:
1: Turn the power OFF on the operator.
2: Push the limit lock plate down (on the SL-100 AC) or outwards (on the SL-150 AC).
3: Turn the limit nut toward the switch to DECREASE travel and away from the switch to INCREASE travel.
4: Place limit plate back to its locked position. (MUST be done for gate to hold its limits)
5: Turn the power $\underline{\mathbf{O N}}$ to the operator.
6: Run the gate operator open and close. If additional adjustment is needed, repeat the steps.


## SL-150 AC CLUTCH ADJUSTMENT

## The SL-150 AC gearbox is equipped with an internal clutch to protect the operator when gate is reversed in mid-cycle.

The clutch comes from the factory set at 60 lbs . of torque. In some applications, where the gates are heavier than normal, the clutch may require some adjustment to increase the amount of torque. It is important to have the clutch tight enough to be able to move the gate without slipping. It is as important to not over tighten the clutch, as it is a method of protecting the operator.

## Follow these instructions to tighten the clutch when necessary:

- To increase the torque, use a pipe wrench to turn the clutch nut clockwise.
- Turn the nut $1 / 2$ a turn at a time until the operator is able to move the load of the gate without the clutch slipping.
- Once the operator is able to move the gate without the clutch slipping, turn the nut one full turn. This will allow the operator to move the gate, but also slip when the gate is reversed mid cycle or in the event the gate gets jammed.



## GATE OPENING DIRECTION SETTING

- Use OPEN L/R" dipswitch (\#8) to change the opening direction of the operator.
- The direction of gate opening is determined from behind the gate operator.
- LEDs will show opening and closing direction when the gate is moving.
- OPEN L/R switch "OFF" is for left hand opening
- OPEN L/R switch "ON" is for right hand opening


OPEN TO THE RIGHT


## PROGRAMMABLE RELAY AND LEAF DELAY

Board model ALL-ACUL includes a programmable relay (N.O.) with four different configurations.
See table below for switch settings. Use the "Leaf Delay" potentiometer to adjust the delay time from 0 to 6 seconds.
(1) 1 second pulse for every open start cycle

- Typically used for a cycle counter
(2) "ON" when the gate is in motion
- Typically used for an audible alarm or strobe light to warn when the gate is in motion
(3) Alarm system output
- Activates the relay when the gate is forced open
(4) "ON" when gate is not fully closed
- Typically used for an indicator

| S1 | S2 | RELAY FUNCTION |
| :---: | :---: | :--- |
| OFF | OFF | ONE SECOND PULSE FOR EVERY OPEN START CYCLE |
| ON | OFF | ON WHEN GATE IS IN MOTION |
| OFF | ON | ALARM SYSTEM OUTPUT |
| ON | ON | ON WHEN GATE IS NOT FULLY CLOSED |



## TIMER ADJUSTMENT AND RADIO SETTING

TIMER ON: Automatic timer to close can be set from 1 to 60 seconds
TIMER OFF: Gate operation is "push button to open, push button to close"
RADIO ON: To override the timer and allow the radio receiver to close the gate before the timer


NOTE: If potentiometer is turned all the way counter clockwise, the timer is disabled and the gate WILL NOT close automatically.


## DIP SWITCH FUNCTIONS

## TIMER

TIMER switch "ON" activates the automatic close timer.

## RADIO

RADIO switch "ON" allows the radio receiver to override the automatic close timer.

## OSC

OSC switch "ON" allows the radio receiver to stop and reverse the gate in any direction. During a cycle, the first signal stops the gate. A second signal reverses the gate.

## LOCK

LOCK switch "ON" is used when a mag lock is installed. "OFF" is used when a solenoid lock is installed or no lock is installed.

## 1-PASS

1-PASS switch "ON" allows the gate to open until one vehicle goes over the safety loop. Once the vehicle has cleared the loop, the gate will stop and close. If a second vehicle goes over the loop while the gate is closing, the gate will stop. The vehicle must get off of the loop before the gate continues to close, forcing the second vehicle to present valid credentials. This is a true one pass, anti-tailgating feature to be used with safety loops.

## SLAVE

This feature is used in dual gate applications. The
SLAVE switch will be "ON" only on the slave operator. All other dip switches will be "off". SLAVE switch will be "OFF" on the master operator. Set desired dip switch settings on the master operator only.

## BRAKE

BRAKE switch "ON" assists in stopping the gate at the moment of contact between the limit nut and limit switch. This function should only be used on uphill or downhill applications. A 20 -amp fuse should be used when this switch is on.

OPEN L/R
OPEN L/R switch "ON" is used for right hand opening of the gate. The "OFF" position is used for left hand opening of the gate.


## NOTE: IF ANY CHANGES ARE

 MADE TO THE DIPSWITCHES WITH THE POWER ON, PRESS THE MAIN RESET BUTTON TO RECOGNIZE THE CHANGE.
## ELECTRONIC REVERSING DEVICE (ERD)ADJUSTMENT

All AC boards are equipped with an Electronic Reversing Device (ERD), which will cause the gate to reverse direction when it comes into contact with an obstruction.

The amount of force required to reverse the gate's direction depends on the ERD sensitivity setting and motor rating. Make sure the ERD jumper is set to the correct pin setting (see chart below).

The ERDs must be adjusted for the operator to provide regular, reliable \& safe operations. If the gate reverses direction on its own without hitting an obstruction, the ERD is too sensitive. If the gate does not reverse when it hits an obstruction, the ERD is not sensitive enough.

ERDs must be adjusted by a qualified technician.
The gate operator ERDs shall be tested and adjusted if necessary every six months.


## ACCESSORY CONNECTIONS

The circuit board's 24 VDC terminal provides up to 700 mAmps to power accessories such as loop detectors, keypads, etc. If the total current draw of your accessories exceeds the 700 mAmps , a separate power supply (transformer) is required.

When installing a safety loop detector or pedestrian switch or a stop switch, make sure to REMOVE the black jumper between the $24 \mathrm{~V}-\mathrm{COM}$ and SAFETY and/or STOP_CMD terminals.

DO NOT use these terminals for monitored entrapment protection device connection. See next page for wiring.

| NO Contacts | NC Contacts |
| :--- | :--- |
| Exit Loop Detector | Safety Loop Detector |
| Keypad | Photo Eye |
| Telephone System | STOP_CMD |
| Push Button |  |
| Card Reader |  |



## MONITORED ENTRAPMENT PROTECTION DEVICE CONNECTION

- There are 2 types of sensors that can be connected to the gate operator for UL 325 monitored entrapment compliance: non-contact sensors (photo eye) and contact sensors (edge sensors).
- Monitored entrapment protection devices use 4 wires to connect to the board. From the device, connect the RELAY COMMON to the board COMMON and the NORMALLY CLOSED relay contact to the assigned MON_OPEN or MON_CLOSE input. Connect the power wires to the COMMON and MON-24VDC.
- IMPORTANT: You must use the MON-24VDC to properly monitor entrapment protection devices. To turn this voltage on for initial setup, press the reset button on the board. Do not use the 24 VDC terminal on the board's terminal strip.
- NOTE: The power to the MON-12/24VDC terminal will be off when the gate is at rest (not moving). It will be normal to see the MON_OPEN and MON_CLOSE LEDs when the gate is closed. If the auto close timer is OFF it will do the same when the gate is at rest in the open position. Also, if no devices are connected both of these lights will stay ON.
- Please refer to the device manufacturer wiring instructions for details, making sure to follow the normally closed wiring directions. Some devices may work on monitoring interfaces other than normally closed.
- Should there be a need for more than 1 entrapment protection device for each direction, use a multi-input module from Miller Edge (model: MIM-62).


MONITORED ENTRAPMENT PROTECTION DEVICE CONNECTIONS

| ENFORCER E-960-D90GQ/ <br> E-931-S33RRGQ / E-931-S50RRGQ |  |
| :---: | :---: |
| CONTACT | BOARD TERMINAL |
| N.C. | MON_CLOSE OR <br> MON_OPEN |
| COM | COMMON |
| $12-30 \mathrm{VDC/AC}$ | COMMON |
| $12-30 \mathrm{VDC/AC}$ | MON_12/24VDC |


| ENFORCER <br> E-936-S45RRGQ |  |
| :---: | :---: |
| WIRE | BOARD TERMINAL |
| BLACK | MON_CLOSE OR <br> MON_OPEN |
| WHITE | COMMON |
| BLUE | COMMON |
| BROWN | MON_12/24VDC |


| ALLEN BRADLEY <br> GRU-24 |  |
| :---: | :---: |
| WIRE | BOARD TERMINAL |
| BLACK | MON_CLOSE OR <br> MON_OPEN |
| ORANGE | COMMON |
| BLUE | COMMON |
| BROWN | MON_12/24VDC |


| OMRON <br> E3K-R10K4-NR |  |  |
| :---: | :---: | :---: |
| SWITCH | CONTACT | BOARD <br> TERMINAL |
| LIGHT <br> ON | N.O.1 | MON_CLOSE OR <br> MON_OPEN |
|  | COM | COMMON |
|  | 24 TO 240 <br> VAC | COMMON |
|  | 24 TO 240 <br> VAC | MON_12/24VDC |


| EMXIRB-RET / IRB-MON |  |  |
| :---: | :---: | :---: |
| SWITCH | CONTACT | BOARD TERMINAL |
| SW1 OFF | N.C. | MON CLOSE OR MON_OPEN |
| $\begin{aligned} & \text { SW2 - } \\ & \text { OFF } \end{aligned}$ | COM | COMMON |
| $\begin{aligned} & \text { SW3 - } \\ & \text { OFF } \end{aligned}$ | $\begin{aligned} & \text { POWER/ } \\ & \text { VRX } \end{aligned}$ | COMMON |
| SW4 ON | POWER/ VRX | MON_12/24VDC |


| EMXX <br> IRB-325 |  |
| :---: | :---: |
| CONTACT | BOARD TERMINAL |
| N.C. | MON_CLOSE OR <br> MON_OPEN |
| COM | COMMON |
| POWER | COMMON |
| POWER | MON_12/24VDC |


| EMX <br> NIR-50 |  |
| :---: | :---: |
| WIRE | BOARD TERMINAL |
| BLACK | MON_CLOSE OR <br> MON_OPEN |
| WHITE | COMMON |
| BLUE | COMMON |
| BROWN | MON_12/24VDC |


| TRANSMITTER SOLUTIONS <br> R50R-UL/R32P-UL/SR33HD/SR66HD |  |
| :---: | :---: |
| CONTACT | BOARD <br> TERMINAL |
| N.C. (3) | MON_CLOSE OR <br> MON_OPEN |
| COM (5) | COMMON |
| NON POLARITY (1) | COMMON |
| $12-30$ VDC/AC (2) | MON_12/24VDC |


| MILLER EDGE <br> REFLECTI-GUARD/RG-K |  |
| :---: | :---: |
| CONTACT | BOARD <br> TERMINAL |
| TB 2 - N.C. | MON_CLOSE OR <br> MON_OPEN |
| TB 2 - COM | COMMON |
| TB 1 - POWER IN (-) | COMMON |
| TB 1 - POWER IN (+) | MON_12/24VDC |


| TRANSMITTER SOLUTIONS iGAZE RE KIT |  |  |
| :---: | :---: | :---: |
| SWITCH | CONTACT | BOARD TERMINAL |
| $\begin{aligned} & \text { ALL } \\ & \text { OFF } \end{aligned}$ | N.C. 1 | MON CLOSE OR MŌN_OPEN |
|  | COM | COMMON |
|  | $\begin{aligned} & \text { (-) } 12 / 24 \\ & \text { VDC } \end{aligned}$ | COMMON |
|  | $\begin{aligned} & \text { (+) } 12 / 24 \\ & \text { VDC } \end{aligned}$ | MON_12/24VDC |


| EMX <br> WEL-200 |  |
| :---: | :---: |
| CONTACT | BOARD <br> TERMINAL |
| RELAY CLOSE (NC) <br> RELAY OPEN (NC) | MON_CLOSE <br> MON_OPEN |
| RELAY CLOSE (COM) <br> RELAY OPEN (COM) | COMMON <br> COMMON |
| POWER | COMMON |
| POWER | MON_12/24VDC |


| MILLER EDGE RBAND MINIMUM 6 WIRES REQUIRED |  |  |
| :---: | :---: | :---: |
| SWITCH | CONTACT | BOARD TERMINAL |
| SW 1 ON | $\begin{aligned} & \text { CS } 1 \\ & \text { CS } 2 \end{aligned}$ | MON CLOSE MON_OPEN |
| $\begin{gathered} \text { SW } 2- \\ \text { OFF } \end{gathered}$ | $\begin{aligned} & \text { CS } 1 \\ & \text { CS } 2 \end{aligned}$ | COMMON COMMON |
| $\begin{gathered} \text { SW } 3- \\ \text { ON } \end{gathered}$ | $\begin{aligned} & \text { COM.A } \\ & \text { TEST } \end{aligned}$ | COMMON MON_12/24VDC |
| SW 4 ON | $\begin{aligned} & 12 / 24(+) \\ & \text { AC/DC } \end{aligned}$ | 24-VDC GROUND |

## LOOP RACK INSTALLATION

- The SL-100ACFP and SL-150AC models come equipped with the pre-wired LPR-1 loop rack for safety and exit plug in loop detectors, making installation quick and efficient.
- Hardwired loop detectors with harnesses can also be installed. The circuit board has 24 VDC and 120 VAC terminals to power the detector of your choice. See "Accessory Connections" page for wiring instructions.
- Wire one or more safety devices in series with the loop rack wires. To do this, remove the white wire (N.C.) from the loop rack off of the SAFETY terminal on the circuit board and wire nut to the COM of the additional device. Connect the N.C. contact of the additional device to the SAFETY terminal of the board.
- IMPORTANT: Use different frequencies for each loop detector to eliminate interference.



| LOOP RACK | AC BOARD | WIRE COLOR |
| :---: | :---: | :---: |
| 24 VDC | 24 -VDC | RED |
| GROUND | 24 -COM | BLACK |
| EXIT | EXIT LOOP | GREEN |
| PHANTOM | PHANTOM | BROWN |
| SAFETY | SAFETY | WHITE |



COMPATIBLE PLUG IN DETECTORS

| BRAND | MODEL | JUMPER SETTING |  |
| :---: | :---: | :---: | :---: |
| RENO A\&E | H2 | 回. | OFF |
| EDI | LMA-1800 | 回• | OFF |
| DIABLO | DSP-40S | - | ON |
| DIABLO | DSP-55 | -0. | OFF |
| DIABLO | DSP-50 | -0. | OFF |
| NORTHSTAR | NP2-ES | -. | ON |

## THREE-BUTTON STATION CONNECTION

- A three button station and reset push button are integrated on the board to make limit and ERD adjustments easier.
- An external three button station may also be installed. See diagram below for wiring instructions,
- NOTE: On SL-100 AC model, STOP CMD jumper must be removed if a three button station is installed.



## MASTER/SLAVE CONNECTION

## BEFORE CONNECTING MASTER/SLAVE COMMUNICATION WIRES, TAKE THE FOLLOWING STEPS:

1: Test and adjust the limit switches and ERDs for each operator as stand alone machines.
2: Once the machines have been adjusted, turn slave dip switch "ON" on the slave board.
Press the RESET button on the slave board or reset the power.
3: Connect the master/slave communication wires to "DATA -" and "DATA +".
The "M/S LINK" LED should be "ON" on both machines.
4: Connect all accessories to the master operator. Accessories installed on the slave operator will not work. (Note: Accessory power may be connected to the slave operator, but relay wires must be connected on the master operator.)


## RADIO RECEIVER CONNECTION

There are two types of receivers: 3 -wire and 4 -wire:
3 wire receivers can mount on the radio receiver terminal strip located outside of the control box.
For 4 wire receivers, connect the 2 gray wires to terminals 1 and 2 on the receiver terminal strip located outside of the control box. Connect the black wire to the 24 V -COM and the red wire to the 24 VDC on the board terminal strip as shown below.

RADIO dip switch ON allows the radio receiver to override the automatic close timer.


## MAGNETIC/SOLENOID LOCK CONNECTION

A magnetic lock installation requires a step down transformer with appropriate voltage specific to the lock accessory and two wires.

When using a magnetic lock, the LOCK dip switch (\#4) must be turned ON. The "LOCK OUTPUT" LED will turn on to show the lock is magnetized.

When using a solenoid lock, the LOCK dip switch (\#4) must be turned OFF.
AC-N and LOCK from the board terminal strip supply 120 VAC to power the transformer and control the lock. Connect low voltage wires from the transformer directly to the lock, as shown below. Connecting the mag lock straight to the board will cause damage to the board and mag lock.


## EMERGENCY RELEASE INSTRUCTIONS

## Procedures to manually open the SL-100 ACFP and SL-150 AC:

1. Turn operator power "OFF".
2. Push foot pedal down and move to the left to lock pedal in down position.
3. Push gate open.

NOTE: These operators are equipped with a kill switch on foot pedal. Even if operator power is turned ON, the operator will not run while the foot pedal is down. The STOP CMD LED will indicate the foot pedal is pressed down.


Procedures to manually open the SL-100 AC:

1. Turn power "OFF".
2. Push gate open or use crank (provided with each operator).

## WARRANTY AND RECORD

## MANUFACTURER'S LIMITED WARRANTY

ALL-O-MATIC INC warrants the following gate operators (SL-100 AC[FP] and SL-150AC) for a period of five (5) years in commercial installations and for a period of seven (7) years in residential installations. The above operators, within their warranty period, are to be free from defects in circuitry, motor, gearbox and workmanship. This warranty begins from the date of purchase to the original owner. Warrantor will repair or, at its option, replace any device which it finds to require service. This device must be sent to the warrantor at the consumer's expense to:

## ALL-O-MATIC INC. 7820 GLORIA AVE. <br> VAN NUYS, CA 91406

The warrantor will return the repaired or replaced unit to the customer at the consumer's expense. Labor charges for dealer service or replacement are the responsibility of the owner. These warranties are in lieu of all other warranties either expressed or implied, and ALL-O-MATIC INC shall not be liable for consequential damage. All implied warranties of merchantability and or fitness for a particular purpose are hereby disclaimed and excluded. This limitation is not valid in jurisdictions which do not allow limitation of incidental or consequential damages or limitation of warranty periods. In order to obtain this policy, please complete the registration card and send it by mail within 30 days of purchasing from ALL-O-MATIC INC. or your installer. If the product is not registered, only a one year warranty on all parts will be provided.

CUSTOMER RECORD

Customer Name $\qquad$
Address
Purchased from (Installation Co.)
Date $\qquad$
Model Number $\qquad$
Serial Number $\qquad$ -

NOTES

NOTES


