

AUTOGATE INC.



RETROFIT INSTRUCTIONS TO INSTALL A GENESIS BOARD REPLACING A LIFTMASTER BOARD



Congratulations on your purchase of our new state of the art GENESIS control board kit for replacing the LiftMaster control board which has been discontinued. *PLEASE READ THESE INSCTRUCTIONS THOURHLY BEFORE PROCEEDING. WE HIGHLY RECOMMEND A CERTIFIED TECHNICAN REPLACE INSTALL THIS UPGRADE KIT!* Included in your kit are the following items:

- GENESIS Control Board (w/terminal blocks)
- RSP-320-27 Power Supply w/(2) mounting screws & (2) Mounting brackets
- 6' RED & BLACK wire (power from the power supply to the board-replaces YELLOW wires)
- 6' BLACK & WHITE AC Power wires 14 gauge (power from AC box to power supply if needed)
- 6' GREEN ground wire
- DC Troubleshooting light w/4' of 24 gauge 2-conductor RED & BLACK wire
- 10Amp Glass fuse (Replaces the AC 3Amp in the face of the Battery Tray)
- Miscellaneous wire connectors and cable ties
- 1. Turn off all power (**AC** at Outlet Box & **DC** Toggle switch under Control Box). For extra precaution, turn off the main dedicated breaker feeding the operator outlet box.
- CAUTION: Additional accessories may have been installed and powered off the AC transfomer by a 3rd party! These will need to be handled by the onsite technichian doing the upgrade.
- 3. Remove transformer cover. Unplug the wires, unbolt, remove transformer, discard or recycle.



Optional location for new power supply. Fan facing out. Secure on top tubing to back skin.

Remove Transformer Cover & Transformer. Transformer: Remove wires, Unbolt, remove transformer discard or recycle.



4. When removing the YELLOW transformer wires and discarding, also remove the small RED & BLACK wires going to the AC POWER INDICATOR LIGHT (If used). These wires will be re-connected on the GENESIS board "MAIN POWER LOSS/LOW BATTERY" & COM (See P3). The AC Indicator light will be replaced with a

DC LED FAULT light. It will FLASH where there are issues. Review the GENESIS Board menus for more details on what causes the light to flash and the different types of flashing.

- 5. Connect the original or supplied **AC BLACK** & **WHITE** wires that fed the transformer to the Power Supply using spade connectors. BLACK to the L-Line, WHITE to the N-Neutral.
- 6. Connect the supplied 14-gauge GREEN Ground wire to the power supply ground. Run the GREEN Ground wire along the BLACK & WHITE wires back to the AC Outlet box and connect to the AC Outlet box GREEN Ground wire.
- 7. Using the supplied new RED & BLACK wires connect them to the Power Supply, RED to positive, BLACK to negative.
- 8. The RSP-320-27 has a universal AC input switch and will accept **100-240** Vac. Any voltage over 120 needs to be single phase. See below for proper wiring.
- 9. We suggest Installing the new power supply by securing it to the frame on top of the back tubing above the Battery Shelf in the same area the transformer was located but towards the corner (see above picture) using one or two of the included mounting brackets. The brackets attach to the power supply with metric M4 x 6 mm screws. Use the self-tapping screws provided to attach to the battery shelf/frame or skin. **Options:** install on the back panel next to the AC outlet or installed UNDER the Battery Shelf. Make sure the fan is not blocked. NOTE: Leave the ORIGINAL AC and DC switches in place!



- 10. On the old LiftMaster board, Remove the J2 terminal strip (4 terminals: Limit Switches wires) from the top left side of the board.
- 11. Remove the J5 (12 terminals: Input, reversing devices & grounds) terminal strip at the top right side of the board.
- 12. Remove the **BROWN** wire from the **J1** terminal
- 13. Mark and unscrew the wires from the J4 terminal strip at the bottom of the board.
- 14. Remove and save screws from side of control box mounting the control board. Then, using a pair of needle nose pliers, squeeze the tabs together on the stand-offs to release the control board.



J4: MOTOR & POWER

Bolts

- 15. Remove the LiftMaster board. Align the **GENESIS** board over the stand-offs and push down to lock in place. A small screwdriver may be used to pry open the lock tabs on the stand-offs.
- 16. Using the original screws and nuts, attach the mounting bracket to the side of the control box.
- 17. Attach BATTERY **RED** & **BLACK** wires to the **P11** terminal marked **BATTERY +/-**. *Leave the* **24 VDC MAIN POWER** toggle switch in the battery positive wire. This will allow turning the batteries on/off without having to remove wires.
- 18. Attach the **DC RED** & **BLACK** power supply wires from the power supply to the **24V DC** terminals on the **P11** terminal strip. Make sure to follow the correct polarity!
- 19. Attach the Motor wires to the MOTOR A/B terminals
- 20. Wires: RH OPERATOR MOTOR: A=BLUE, B=ORANGE. LH OPERATOR MOTOR: A=ORANGE, B=BLUE



21. Attach the **RED** & **BLACK ACCESSORY POWER STRIP** wires to the **P9** terminal strip (**24VDC**). **RED** to POSITIVE, **BLACK** to COMMON.



- 22. Transfer the limit switch wires from the LiftMaster terminal strip J2 to the **GENESIS P1** terminals (see above) **LIMIT** input terminals. These will be the in the same position. Left end wire is the **WHITE OPEN** limit wire. The second terminal is the **RED CLOSE** limit wire. The third terminal is for the 2 **Black** wires (commons) from the limit switches. *WARNING! DO NOT TURN ON ANY POWER AT THIS TIME!*
- 23. Remove wires from the J5 12 terminal strip taken from the LiftMaster board earlier. One by one insert them in their proper location on the GENESIS P2 terminal strip (see below). Any wires that were in terminals #1, #2, or #3 on the J5 LM board, put into Open 1 or Open 2. Any wire in terminal #4 on the J5 LM board, put into the OP/CL PGM. Wires located in terminal #5 on the J5 of the LM board will be put into REV/INT. If there is a wire in the J5 #6, move it to the CLOSE input on GENESIS. Normally, the FE/BACK & SHADOW are not used. If they are, use the same input as marked on GENESIS.



20. Now attach the BROWN wire into the 6th terminal down on the P3 terminal strip on the left side of the GENESIS board. This is the UL alarm wire. The ground for the alarm is already wired to the ground on the auxiliary power strip to the left of the board. If the there is an auxiliary limit switch kit, the power wires for this will be removed from the LM BATTERY terminals and attached to the 24 VDC & COM terminals on the P9 (see graphic above) terminal strip.



J2: LIFMASTER PRIMARY/SECONDARY (M/S)

P8: GENESIS PRIMARY/SECONDARY

- 21. If you are replacing both boards in a PRIMARY/SECONDARY DUAL gate system, remove the cross-connected wires between the gates, but do not reconnect yet. After connecting control wires to the GENEISIS board, use 3 of the cross-connect wires for the DUAL GATE COMMUNICATION connection on **P8**. If you have a shielded multi-conductor wire cable for the connection, connect the SHIELD to a COMMON on the **PRIMARY gate only!** Then use any three remaining wires for the PRIMARY/SECONDARY connection. **A to A**, **B to B and C to C**.
- 22. NOTE: DO NOT re-connect the CYCLE COUNTER, AMP METER (located in the electrical box door), both of these items are built into the GENESIS board. (See screens below)
- 23. If you had a VOLTAGE CLAMP ACCESSORY board, do not re-connect it as well, just toss it.
- 24. POWERING UP YOUR SYSTEM: If main circuit breaker has been turned off, turn it back on. Turn on AC power switch and turn on the DC battery toggle switch. Note: IF YOUR BOARD WAS FACTORY PRESET, the board should power up and display the TITLE screen with the GENESIS Version number (Ver. #.#). After 6 to 8 seconds the screen will change to the MAIN screen showing the Line Voltage (DC) from the AC/DC Power Supply, Battery Voltage (DC), Motor Amps, Cycles and Close Timer. If your board was not Factory preset, you will get a FAULT warning screen with this message: LPS SENSOR NOT DETECTED BY THE GENESIS BOARD! You will need to call AutoGate (800-944-4283) for assistance in programming your board for LIMIT SWITCH use. WARNING! DO NOT OPERATE YOUR GATE AT THIS TIME!
- 25. Scroll down to TIMER SETTINGS to set the AUTO CLOSE if your system was set to close automatically.





Timer Settings



- 26. Follow the enclosed GENESIS board instructions (included) to setup ALL options, accessories and reversing equipment paramaters
- 27. Change the **BATT:** Bulk Charge >Power SUPPLY to "NORMAL" (may already be done by the factory)
- 28. The OUTPUT VOLTAGE POT is adjustable between 27-31 Vdc. We recommend setting it to 29.5 volts.





a. Check your board programming for to make sure you are set for LIMIT SWITCHES and your MONITORED INPUTS are all set to OFF. If not, you will need to contact AutoGate for the KEY code to change those statuses.



- b. If your GENESIS board was FACTORY PRESET your operating speed should be set for OPENING and CLOSING speed of 110%, if not change the speed to 110%. Refer to OPERATOR CONTROL/GATE SPEED below in the GENESIS programming instructions to adjust if necessary.
- c. Now cycle the gate and record your OPENING & CLOSING cycle times.
- d. Set the OPEN RUN and CLOSE RUN times for 2 seconds LESS than the cycle times you just recorded. For example, if the cycle time was 12 seconds, set the run times to 10.

GENESIS BOARD OPERATION BUTTONS

GREEN: OPEN (Will also act as a constant pressure and override defaults to OPEN the gate)

YELLOW: CLOSE (Will also act as a constant pressure and override defaults to OPEN the gate)

RED: STOP (Stops the gate in either direction)

WHITE: RESET (Resets the board in the event of a program change or fault)

- a. Press the **GREEN** OPEN button, if you set the **CLOSE TIME** the gate should time out and close. If you have not set the **CLOSE TIME**, it is found under **TIMER SETTINGS**.
- b. Press the **YELLOW** CLOSE button to close the gate.
- c. Test *ALL* Accessory & Reversing (Photo Beams, Loops, Keypad, Card Readers, etc.) devices to make sure they are operational.

Note: There should not be any accessory indicator or warning lights on.

27. For the balance of the GENESIS board instructions and set up, please review the GENESIS CONTROL BOARD document attached.

28. Refer to TROUBLESHOOTING guide or for more information, go to **GENESIS** Board Instructions or 2490 Installation manual which is located online at <u>https://www.autogate.com/vertical-pivot-gates/</u> under the INFORMATION tab.

For further assistance, call AutoGate 800-944-4283 and ask for Tech help.

OVERVIEW: The **GENESIS** board has a 4 line 20 characters per line **LCD** backlit screen. At power up, the display will show the AutoGate and **GENESIS** branding, along with the program version number and the current time. After 5 or 6 seconds, this will then shift to the HOME screen, or base operational data shown below under **MAIN** Screen.





Open Time: 10 Close Time: 10 ≻Auto Close: Off Auto Delay: 03



TITLE Screen

MAIN Screen

Example 1

Example 2

JOG/SELECT Control Knob: The screens are accessed and modified by a **JOG/SELECT** control knob. Turning the Jog/Select dial will scroll through the sub-menu selections. When a sub-menu is showing, a quick momentary press of the Jog/Select knob will display the first screen in that sub-menu. Turning the Jog/Select knob will move the cursor (>) through the adjustable parameters.



JOG/SELECT Knob

SCROLLING: Rotating the Jog/Select knob clockwise will scroll through the adjustments on that screen. If there is another screen in that sub-section, continue to scroll after the last character, the screen will automatically change to the next screen. When at the last screen of a sub-section, a long push, (approx. 1 second), of the Jog/Select knob will return to the sub-section main screen. Sub-sections can be scrolled in either direction by turning the Jog/Select knob clockwise or counter-clockwise.

JOG/SELECT ACTIONS: Two different actions can occur on the screens:

1) If the cursor is pointed to a descriptive phrase (Example #1), then a momentary push of the Jog/Select knob will move the cursor to the adjustable parameter. Then turning the Jog/Select knob will change the value.

2) When the cursor is pointed to left side of a value or parameter to be changed, (example #2), use quick momentary push of the Jog/Select knob to move the cursor. The cursor will move to the right side of the value (<). Turning the Jog/Select knob will change the value. When done, again, a quick momentary push of the Jog/Select knob moves the cursor back to the left.

Note: Gate will not be operational while in programming mode. When in programming mode there will be a series of flashing lights at all times above the LCD screen.

Note: Screens in ORANGE are WARNING screens that will appear when there is an issue.

SCREEN MENUS

MAIN SCREEN



Line voltage: From the Power supply. (Normal voltage should be 29 to 30, Recommended to 29.5Vdc) Charge/Battery voltage: When AC present: Charging Voltage to batteries, When on DC only: Actual battery voltage. (Normal Battery voltage is 26.4 to 26.8) (Normal Charging Voltage is 26.0 to 28.5 volts) *Note:* * Indicates CURRENT POWER source

Motor: Displays actual motor amperage during cycling

Cycles/Position: A cycle count is considered a complete OPEN & CLOSE. Hold the Jog/Select button down and the Cycles will change and show the gate position "0" being CLOSED and "90" being full OPEN.
T=00: Operation count in seconds for both open and close cycles and also counts down the *"Timer to Close"* (CLOSE TIME) time. *NOTE:* 0-90 Display is not available with LIMIT SWITCHES.

CALENDAR/TIME



Set the time, date and day of the week. This is an important feature. It will affect the data in all FAULT and OPERATION logs as well as any TIME functions to hold the gate open on any given day(s).



OPERATOR CONTROL

GENESIS CONTROL BOARD OPTIONS: GATE SPEED, LIMIT SWITCHES, HALL (A & B), OPEN/CLOSE, POSITION SETTINGS **Operator Control** GATE ORIENTATION: Set for LEFT or RIGHT hand gate. The hand is always determined from the INSIDE >Gate Orientation: or PRIVATE side of the gate system. If the operator is located on the right-RIGHTHAND, left-LEFTHAND. Right DUAL GATE MODE: Turn "ON" when you have (2) gates opening at the same time. >Dual Gate Mode: Options: OFF, PRIMARY or SECONDARY. If "ON", then each gate needs to be set accordingly >0ff STATUS: Disconnected or Connected Status Disconnected If using the "Auto Close", only set the PRIMARY "Auto Close" to on, leave the Secondary off ٠ . Make sure both gates are powered up, otherwise you receive a "communication" error message (see yellow message below) In a PRIMARY/SECONDARY or DUAL gate mode system, if you lose communication between the two Gate set in DUAL operators you will get this message. Mode: Primary or Secondary not detected Note: Gates will not operate in DUAL gate mode unless BOTH are powered up and connected. GATE SPEED: Default 100%, any percentage less than 100% down to 75% will slow the gate opening >Gate Opening Speed: and closing down accordingly. Downward speed to fast will cause a FAULT: SPEED OVER-RUN (see 110% Gate Closing Speed: below). When retro fitting, set speed to 110% for both OPEN and CLOSE. 110% LIMIT SWITCHES: Default is "NOT USED". You will need to contact AutoGate if your board was not set >Limit Switches: Not Used at the factory to LIMIT SWITCHES before you go received it. Choices are: NORMALLY OPEN, NORMALLY CLOSED, HALL A & HALL B. Normally open & close will choose the type of wired Limit Switch to be used.

Close Decel: 10

WARNING! No Limit Position Sensor detected! Gate will not operate!

>Open Decel:

10



DECEL SPEED: Sets the time value on setting the gate speed from full speed to slow speed. The scale is 7 to 20, with 7 being the fastest and 20 being the slowest.

WARNING! Downward Speed too fast.

CONSTANT PRESSURE (CP) MODE (CLASS IV): In the CP mode, the OPEN 1, OPEN 2 & CLOSE inputs can be wired to a push button station for gate control. In a CP mode, these inputs will override the Entrapment STOP/ALARM condition. Status is ON or OFF only. Default is OFF. STOP INPUT MODE: Either Normally OPEN or Normally CLOSED

WARNING! Use caution when using these inputs. Always have direct line of site to the gate at all times to avoid pedestrian injuries or equipment/vehicle damage.

MONITORED INPUT SETTINGS (NOT USED WHEN REPLACING A LIFTMASTER CONTROL BOARD-SKIP THIS SECTION!)



WARNING Double Fault Red Stop input or manual reset req'd to restore use. If your gate had a **DOUBLE FAULT**, it will be shut down. To restore normal activity, check for obstructions and if clear, hit the **RED STOP** button, do a manual reset or power the system down and back on again.

INPUT OPTIONS



AUXILARY OUTPUT OPTIONS



OPTIONS: AUXILIARY RELAYS (A & B), OUPUT (1 & 2), PROGRAMMABLE LOCK AUX RELAYS will switch contact between NORMALLY OPEN and NORMAMLLY CLOSED from a common input. AUX OUTPUTS physically switch 24VDC ON or OFF

AUXILARY OUTPUT OPTIONS (cont.)

>Output 1 Quick Set: Always Flashing Output 2 Quick Set: Flashing Closed OUTPUT QUICK SET OUTPUT 1 & 2: 4 Quick Set options for flashing lights: Choices are: No Preset: Off Always Flashing: Light Flash 24/7 Closed & Motion 1: Always flashes except on solid on full open Closed and Motion 2: Always flashes except off on full open Flashing Closed: Lights flash when the gate is closed only

>Relay A Mode: Off Relay B Mode: AUXILIARY RELAYS (A & B): Either relay can be set for a variety of functions:

OFF Pulse on Open Limit Pulse on Close Limit Hold on Open Limit Hold on Close Limit Pulse on Motor Open Pulse on Motor Close Hold on Motor Close

Note: When installing an accessory item (traffic light, siren, etc), you need to run the COMMON down to our **POWER TERMINAL** (common) and then take a wire from the **24vdc** up to the RELAY A or B COMMON. This will provide power to your unit.

>Output 1 Mode: Hold on Aux 2 Output 2 Mode: Off

OUTPUT (1 & 2): Either relay can be set for a variety of functions and provides 24vdc power OFF

Pulse on Open Limit Pulse on Close Limit Hold on Open Limit **Hold on Close Limit Pulse on Motor Open Pulse on Motor Close** Hold on Motor Open **Hold on Motor Close** Hold on UL Alarm Hold on Motor Run Hold Alwavs **Pulse Always Hold Not Open Limit Pulse Not Open Limit Hold Not Close Limit Pulse Not Close Limit** Hold Not Opening **Pulse Not Opening Hold Not Closing Pulse Not Closing Pulse On Motor Run**

Note: For all accessories (lights, alarms, etc.), check on <u>www.autogate.com</u> for technical data or refer to the manufacturer's technical data and installation sheets.

>Programmable lock: Magnetic Aux Output states: Outl N-0, Out2 N-0 **PROGRAMMABLE LOCK:** Output to control Maglocks or Solenoid Locks. The Maglock will be powered all the time and turn off prior to gate motion. The Solenoid mode will power a 24VDC output prior to gate motion.

AUX OUTPUT STATES:

Out 1 N-O, Out 2 N-O: Normally OPEN, Normally OPEN Out 1 N-C, Out 2 N-C : Normally CLOSED, Normally CLOSED Out 1 N-C, Out 2 N-O: Normally CLOSED, Normally OPEN Out 1 N-O, Out 2 N-C: Normally OPEN, Normally CLOSED

AUXILARY OUTPUT OPTIONS (cont.)

>Output 1 Pulse Rate 2 Seconds Output 2 Pulse Rate ½ Seconds OUTPUT PULSE RATE: Controls the time sequence of the pulse Options: ¼ Second, ½ Second, 1 Second, 2 Seconds Options: 1 Second Single

MAINTENANCE



Batt: Float Charge >PWR SUPPLY: Normal Batt V Check Freq: 50 Cycles

WARNING! Charging source NOT detected in the last 24 hours!

GATE ORIENTATION, BATTERY STATUS, SOLAR, BATTERY CHECK, BATTERY LEVEL, OVER CURRENT LEVEL, CONSTANT PRESSURE MODE, DUAL GATE MODE & CUSTOM SETTINGS

BATTERY STATUS: Indicates the charging status: FLOAT: When battery is FULL voltage and not being charged BULK: Battery is in charging mode ABSORBTION: Batteries are low, switches to charging POWER SUPPLY VOLTAGE: NORMAL (Default): Standard power supply CHARGE: For retrofitting older systems only and replaces the original factory transformer SOLAR: Used when you have Solar Panels WARNINGLI If Solar is set to ON and AC voltage is present, the AC voltage will not be connected and

WARNING! If Solar is set to ON, and AC voltage is present, the AC voltage will not be connected and you will still be operating off batteries only!

Loss of **SOLAR** or **Power Supply** connection for 24 hours *(will cause a FLASHING ALERT warning screen)* **BATTERY V CHECK:** How often the board will test the batteries under load. The factory pre-set is every 50 cycles. (Pass code required to change cycle frequency)

Additional VOLTAGE WARNINGS FAULTS & Screens: AC is missing: There is no AC voltage detected on the GENESIS board at the AC INPUT. OVER VOLTAGE: The voltage at the AC INPUT measured over the 30V in normal mode. MOTOR OVER-CURRENT: The motor current exceeded the high set point.

Voltage not detected at the AC Input

>Low Battery Action No Action No Main Power Act.: Run on Batteries

Voltage at the AC

30V

Input measured over

in normal mode

Motor current went above set point

LOW BATTERY ACTION: Default is No Action *Options are:*

FAIL SAFE: Gate will fail OPEN (will cause a FLASHING ALERT warning screen) FAIL SECURE: Gate will fail CLOSED. (will cause a FLASHING ALERT warning screen)

NO MAIN AC POWER ACTION:

Options are:

RUN ON BATTERIES: If you lose AC power, your gate will continue to run on battery power **HOLD OPEN:** If you lose AC power, your gate will lock up in the OPEN mode





>Low Battery Level Note: this screen not viewable. Requires passcode **BATTERY LEVEL:** During battery test, if the battery level falls below the level set, it will turn on the **FAULT LIGHT** and issue a **FAULT CODE**. (Passcode required to change). *(will cause a FLASHING ALERT warning screen)*

MAINTENANCE (cont.)

WARNING! LOW BATTERY Check charge circuit, charge or replace Batteries

OTHER FAULT CODES:

Battery issue: Check the charge voltage, check the Batteries or replaced if necessary. **FORCED OPEN DETECT:** The gate was attempted to be opened and moved off the CLOSED limit without a command from the GENESIS board.

INTERNAL EEPROM & MISSING EEPROM: Internal EEPROM missing of defective

Gate has been moved off the CLOSE limit w/o a command from the GENESIS board





>Over-Current level: 20 Amps **OVER-CURRENT LEVEL:** Adjusts the Internal Inherent Amp current level for the motor. On model 2490 systems with the **GENESIS** board and the **LPS SENSOR**, this will not be in effect. When using **LIMIT SWITCHES**, the **OVER-CURRENT LEVEL** must be set for obstruction/entrapment sensing. If the board senses an **OVER-CURRENT** it will reverse the gate on the first activation. On a sequential activation, this will stop the gate and turn on the UL Alarm. To reset.... Check for any obstructions, if none, Press the **STOP** button on the board or if you have an accessory STOP button wired to the STOP input. Other options are hit the RESET button or cycle all power off and on.



CUSTOM SETTINGS: For advanced features. Requires a "PASSCODE" available from AutoGate only. Code is active for 24 hours only. After 24 hours a new code is required.

FAULT/LOGS/ALERTS



to clear.

OPTIONS: Fault log, Operation Log, Maintenance Alerts

FAULT LOG: Running list of faults, stored for reference for diagnostic troubleshooting. The last 99 Faults are stored. The newest Fault will always be the first one shown. Any fault in the system will also turn on the **FAULT LIGHT** on the outside of the cabinet.

OPERATION LOG: All normal "operations" are recorded up to 99 events. (i.e. Close Limit, Open Limit, Green Open button, Red Stop button, entry Inputs, loop detections, & photoelectric sensors/beam detections, traffic lights, etc. are examples of normal "operation" events logged.)

MAINTENANCE ALERT: Alerts the owner that maintenance is due after a selected number of cycles. This can be set by the installer for 10K, 20K or 50,000 cycles. The screen will show how long until the next alert will show.

MAINTENANCE ALERT: You have reached your predetermined number of cycles to perform general maintenance. Hold the STOP button and press the JOG/Select button to clear.

FAULT LOG ENTRY	FAULT MENU DISPLAY
AC MISSING	Voltage not detected at the AC input
BATTERY LOW CHARGE	WARNING! Battery low, check battery charge
	voltage
CLOSE BEAM MISSING	If your "monitored" device is enabled and the
	required feedback (10K or Pulse) is missing
CLOSE EDGE MISSING	If your "monitored" device is enabled and the
	required feedback (10K or Pulse) is missing
DUAL GATE COMM. LOST	Gate set in DUAL mode: Primary or Secondary
	not detected
EMERGENCY SECURE	WARNING! EMERGENCY SECURE is enabled, gate
	will not OPEN until released
FAIL SAFE OPEN	WARNING! Fail Safe gate held open due to critical
	battery voltage
FAIL SECURE CLOSE	WARNING! Fail Secure gate held close due to
	critical battery voltage
FIRE HOLD ENABLED	WARNING! FIRE SWITCH IS ENABLED. Hold Stop
	and press Jog/select to clear
FORCED OPEN DETECT HOLD OPEN	Gate has been moved off the CLOSE limit position
	without a command from the GENESIS board
	WARNING! HOLD OPEN is enabled, gate will not
	close until released
INTERNAL EEPROM	Internal EEPROM fault detected
LPS SENSOR NOT DETECTED	LPS Sensor is not detected by the GENESIS board
	(not applicable in LIMIT SWITCH more)
MAITNENANCE REQ'D.	Maintenance required, hold stop button and
	press Jog/Select to clear
MISSING EEPROM CHIP	EEPROM chip not detected
MONIT. INPUT MISSING	WARNING! Monitored input missing, see LED
	indicators for monitored inputs
MOTOR OVER-CURRENT	Motor current went above set point
NO CHARGE IN 24 HRS	WARNING! Charging source not detected in the
	last 24 hours
OPEN BEAM MISSING	If your "monitored" device is enabled and the
	required feedback (10K or Pulse) is missing
OPEN EDGE MISSING	If your "monitored" device is enabled and the
	required feedback (10K or Pulse) is missing
OVER VOLTAGE	Voltage at AC input measured over 30V in normal
	power mode
PGM. INPUT 1 MISSING	If your "monitored" device is enabled and the
	required feedback (10K or Pulse) is missing
PGM. INPUT 2 MISSING	If your "monitored" device is enabled and the
	required feedback (10K or Pulse) is missing
SPEED OVER-RUN	Downward speed was too fast
UL FAULT CONDITION	WARNING! DOUBLE DEFAULT. Push RED stop
	button or RESET button to restore to use
UL FAULT CONDITION	WARNING! OBSTRUCTION DETECTED! An
	intended input or RESET required to restore use