APPLICATION

The STAR1000 is a high capacity single channel commercial access control receiver for commercial door operators, and dry contact triggered devices. The STAR1000 is compatible with Security+ 2.0™ remote controls and wireless keyless entries, Security+ 2.0™ Passport and Passport Lite remote controls. This receiver is compatible with HomeLink®. For programming or compatibility information visit www.homelink.com. The receiver capacity is 1,000 devices and can be any combination of remote controls and wireless keyless entries. The receiver is watertight according to IPX44 specification.

INSTALLATION

1. Select a convenient location near the operator to be controlled by the receiver within "line of sight" of the intended transmitting location.
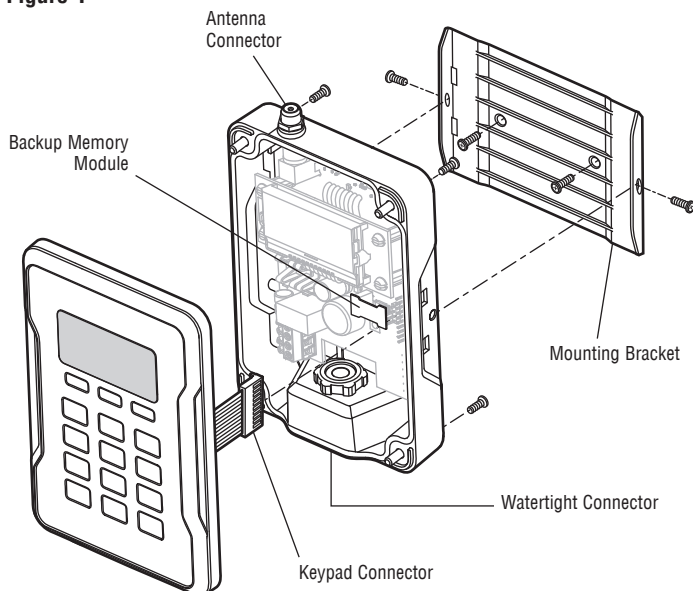
   NOTE: Do not mount LCD screen in direct sunlight. Avoid mounting the receiver in a metal enclosure or near other wireless receiving or transmitting devices.

2. Mount the bracket to the desired surface with appropriate hardware (not provided) (Figure 1).

3. Remove the 4 (#8) screws on the back of the receiver and remove the faceplate. Unplug the keypad connector from the control board.

   NOTE: Be careful not to damage the keypad cable while removing the faceplate.

4. Make wiring connections (Figure 2). Refer to your gate or commercial door operator owner's manual for more specific information.

5. Reconnect the keypad connector to the board (labeled J9).

6. Secure the faceplate with the 4 (#8) screws previously removed.

7. Install the antenna provided.

   NOTE: Use the optional 86LM or 86LMT antenna extension kit (see page 4) to mount the remote antenna as high and far from metallic objects as possible for best radio range.

8. Snap the receiver onto the mounting bracket and secure with the (#8) screws provided.

9. Tighten the watertight connector to secure and seal the wiring.

⚡ WARNING

To prevent possible SERIOUS INJURY or DEATH from electrocution:
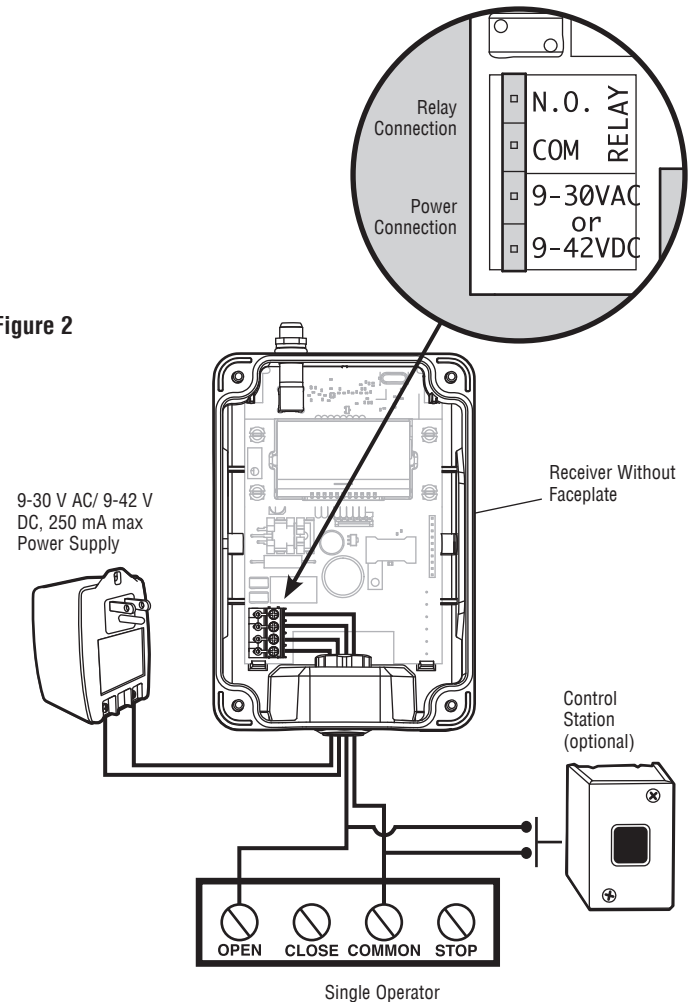- Be sure power is NOT connected BEFORE installing the receiver.

To prevent possible SERIOUS INJURY or DEATH from a moving gate or garage door:
- ALWAYS keep remote controls out of reach of children. NEVER permit children to operate, or play with remote control transmitters.
- Activate gate or door ONLY when it can be seen clearly, is properly adjusted, and there are no obstructions to door travel.
- ALWAYS keep gate or garage door in sight until completely closed. NEVER permit anyone to cross path of moving gate or door.

⚠⚠ WARNING

To prevent possible SERIOUS INJURY or DEATH, the use of CONSTANT OPERATION on residential openers is PROHIBITED.

When a receiver is used to activate a commercial door opener, a reversing edge MUST be installed on the bottom of the door. Failure to install a reversing edge under these circumstances may result in SERIOUS INJURY or DEATH to persons trapped beneath the door.

Figure 2

Relay Connection

Power Connection

N.O. — COM — RELAY

9-30VAC or 9-42VDC

Receiver Without Faceplate

9-30 V AC/ 9-42 V DC, 250 mA max Power Supply

Control Station (optional)

OPEN   CLOSE   COMMON   STOP

Single Operator

NOTE: *Match wiring from your operator terminals to the terminals on the relay/power connector.*

Figure 1

Antenna Connector

Backup Memory Module

Mounting Bracket
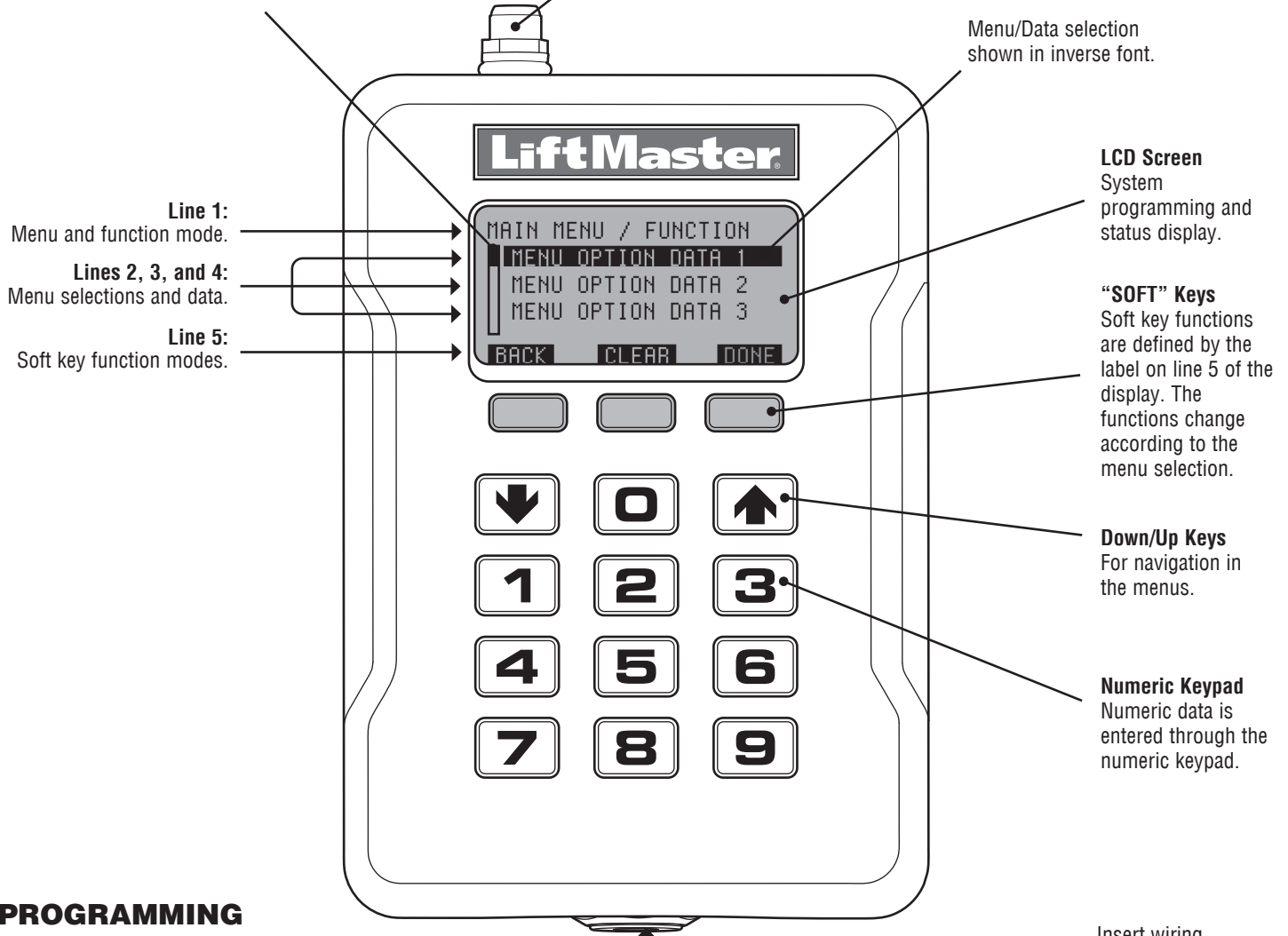
Watertight Connector

Keypad Connector

USER INTERFACE

The STAR1000 user interface consists of a 22 character by 5 line LCD display, 3 "soft keys", Down/Up arrows and a numeric keypad.

Scroll Indicator
If more than 3 options exist, a scroll indicator appears on the left margin of lines 2, 3, and 4. The scroll indicator shows the relative position within the list.

Antenna Connection
For the direct antenna or the antenna extension kit.

Menu/Data selection shown in inverse font.

LCD Screen
System programming and status display.

Line 1:
Menu and function mode.

Lines 2, 3, and 4:
Menu selections and data.

Line 5:
Soft key function modes.

MAIN MENU / FUNCTION
MENU OPTION DATA 1
MENU OPTION DATA 2
MENU OPTION DATA 3
BACK   CLEAR   DONE

"SOFT" Keys
Soft key functions are defined by the label on line 5 of the display. The functions change according to the menu selection.

Down/Up Keys
For navigation in the menus.

Numeric Keypad
Numeric data is entered through the numeric keypad.

Insert wiring

PROGRAMMING

The receiver has the ability to learn a combination of remote control transmitters and keyless entries up to 1,000 devices. See page 4 for a complete list of compatible accessories. Audible and visual warnings occur when the receiver capacity is exceeded. After 30 seconds of inactivity, the receiver times out and the LiftMaster® logo is displayed. Select "UNLOCK" and enter the PIN to continue.

Initial PIN set up:

The PIN restricts access to authorized administrators only. If you omit this step, anyone will be able to program the receiver. Upon initial power up, the system firmware revision is displayed for 5 seconds followed by the LiftMaster® logo. When a key is pressed, "CREATE PIN?" is displayed.

1. Press "YES" to create PIN.

2. If the PIN is lost you may request a reset code by pressing "RESET." You will be provided with a 5 digit serial number. Login to partner portal and go to https://partner.liftmaster.com/utility. Enter the Serial Number to retrieve the master code.

Once master code is retrieved, come back to the RESET option, and after obtaining the serial number press Next.
Enter the master code from the partner portal.
Enter the new PIN.
Re-Enter the new PIN. You will hear a beep from the unit when the PIN has been successfully programmed.
Note: Resetting the PIN does not clear data or settings on the STAR1000 and PPWR. 6

3. Enter a 6-digit PIN, and press "YES"; enter the 6-digit PIN a second time and press "YES" to program the PIN. If you make a mistake, press "CLEAR" to change your entry. To exit the enter PIN screen, select "BACK".

4. When your 6-digit PIN is programmed correctly, the LCD display reads "KEYPAD UNLOCKED". Select "OK" to continue to the Main Menu. After 30 seconds of inactivity, the receiver times out and the LiftMaster® logo is displayed. Select "UNLOCK" and enter PIN to continue.

PROGRAMMING COMMANDS

The table below describes the commands used to program the receiver.

MAIN MENU	COMMAND	DESCRIPTION
LEARN MENU	LEARN DEVICE	Program a device to the receiver.
	BLOCK LEARN DEVICE	Block program a range of devices to the receiver.
	LEARN TO LOC #	Program a device to a 4-digit number location.
DELETE MENU	DELETE DEVICE	Delete a specified device that has been programmed to the receiver.
	DELETE ALL DEVICES	Delete all programmed devices.
SUSPEND MENU	SUSPEND DEVICE	Temporarily disables the function of a specified device that has been programmed to the receiver.
	SUSPEND ALL DEVICES	Temporarily disables the function of ALL devices programmed to the receiver.
	UNSUSPEND DEVICE	Re-enable the function of a suspended device.
	UNSUSPEND ALL DEVICES	Re-enable the function of ALL suspended devices.
QUERY MENU	LOC # USED	Displays a range of used locations starting from a specified location.
	LOC # AVAILABLE	Displays a range of empty locations starting from a specified location.
	LOC # SUSPENDED	Displays a range of suspended locations starting from a specified location.
SETTINGS	CHANGE PIN	Change the 6-digit PIN number for the receiver.
	DEALER INFO	Display and edit the dealer 11-digit contact phone number.
	FIRMWARE VERSION	Displays the current firmware version.
	BEEP	Turn the audible feedback on or off.
	MEMORY	DUPLICATE MEMORY	Creates a memory backup. A backup memory module must be installed.
		RESTORE MEMORY	Restores a memory backup from a memory module. **NOTE:** Content of memory backup module will over-write any information already stored in the receiver memory.
	RELAY	Sets the relay activation time from .25 to 1 second.
	CONTRAST	Press Down or Up arrows to adjust LCD contrast.
	LANGUAGE	Sets menu language: English (Default), Spanish, and French.
	FREQUENCY	Sets frequency of Receiver from 315 MHz (Default) to 390 MHz or 433.92 MHz.
	FACTORY DEFAULT	Reset receiver to factory default settings.

DIAGNOSTICS

The receiver emits a series of audible beeps to signal programming and error events. The table at right lists all of the events and their audible notifications. The On/Off column indicates that the audible notification for the event may be disabled in the BEEP SETTINGS menu.

EVENT	AUDIBLE NOTIFICATIONS	ON/OFF
Key press	Single	YES
Successful Add	Double	
Successful Delete	Triple	
Successful Suspend	Double	
Successful Unsuspend	Double	
Master PIN entry error	Long	
Programming error	Long	
Location out of range	Long	
Generic Success	Double	
Generic Error	Long	
Received unknown Tx	Slow	YES
Received known Tx	Double	YES
Received known suspended Tx	Long	YES

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SPECIFICATIONS

System Capacity	1000 devices
Voltage/Current	9 - 30 Volts AC, 9 - 42 Volts DC
	9 - 42 VDC 70 mA Max.
	9 - 30 VAC 50 - 60 Hz 150 mA Max.
Surge Suppression	6.0 kV Min.
Operating Temp Range	-40°C to +65°C @ 50% Rh, -40°F to +149°F @ 50% Rh
Storage and Shipping Temp Range	-40°C to +85°C @ 50% Rh
Code Format	Security+: 2.0™ Only
Relay Contact Rating	1 amp @ 24V AC/DC

COMPATIBLE ACCESSORIES

Remote Controls*	892LT, 894LT, 891LM, 893LM, 890MAX, 893MAX, PPV3M, PPK3M, PPK3PHM, PPLV1-xxx, PPLK1-xxx, PPLK1PH-xxx
Keypads*	877LM, 877MAX, and 878MAX
Antenna Extension Kits:	
15' Extension Kits	86LM
25' Extension Kits	86LMT
24VAC Transformer for screw terminals	95LM

REPAIR PARTS

Antenna	K76-36681
Mounting Bracket	K13-36651-1

* NOTE: IF CHANGING THE FREQUENCY OF THE RECEIVER FROM THE DEFAULT 315 MHZ TO 390 MHZ, ONLY THE FOLLOWING REMOTES/ KEYPADS HAVE THE CAPABILITY TO BE 390 MHZ SECURITY+2.0: 892LT, 894LT, 893MAX, PPV3M REMOTES AND 878MAX KEYPAD.