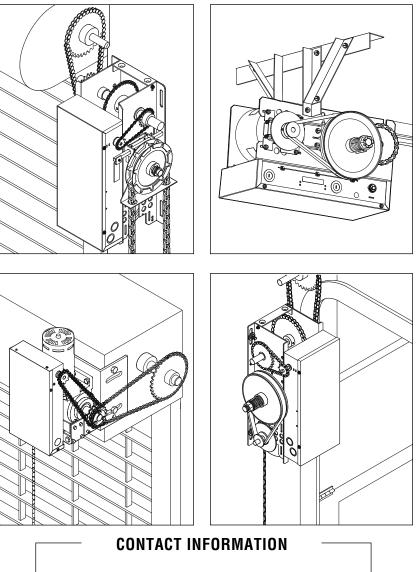


# MH 5011U **MHS 5011U**



### MT 5011U **BMT 5011U**

# MJ 5011U

# **MGJ 5011U**



### INTRODUCTION

Congratulations on purchasing a quality, LiftMaster Medium Duty Commercial Door Operator. Your new operator is capable of operating up to 12 cycles per hour or 50 cycles per day. It is equipped with a built in radio receiver that is compatible with our existing 315 MHz product line as well as a Timer-to-Close (TTC) feature that can be enabled when LiftMaster Commercial Protector System<sup>®</sup> is installed and aligned properly.

### **BASIC PROGRAMMING**

### **DETERMINE THE WIRING TYPE**

The functionality of this operator is based on the wiring type. The operator is shipped from the factory in standard C2 wiring type (factory default). LIFTMASTER MONITORED ENTRAPMENT PROTECTION (LMEP) DEVICE IS REQUIRED.

### NOTES:

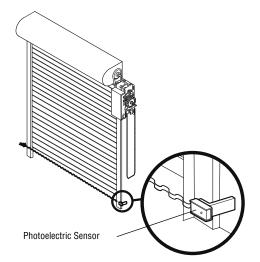
- The LED on the logic board will blink once when in C2 and twice when in B2.
- The operator will automatically convert to B2 wiring when Monitored Entrapment Protection Device is installed. If the Monitored Entrapment Protection Device is removed, the operator will go into a Restricted Close mode\*\*. Turn power OFF and ON to reset wiring type.
- \*\* Restricted close mode requires a constant pressure close command. The operator will begin closing after a 5 second delay and will continue to close to the close limit switch. The operator will stop if the pressure to close is released before reaching the close limit.

# RECOMMENDED INSTALLATION: B2 WIRING TYPE WITH MONITORED ENTRAPMENT PROTECTION DEVICE

- Momentary contact to open, close and stop.
- Open override that reverses when closing by any opening device.
- Wiring for entrapment protection device to reverse.
   NOTE: The operator will automatically convert to B2 wiring when Monitored Entrapment Protection Device is installed. (See accessories page for Monitored Entrapment Protection Devices.)
- Timer-to-Close (TTC) feature available.

### **No Programming Required**

#### MONITORED ENTRAPMENT PROTECTION DEVICE



### **BASIC PROGRAMMING**

### **DETERMINE THE WIRING TYPE**

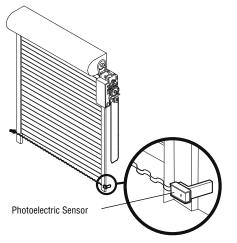
# ALTERNATE INSTALLATION: C2 WIRING TYPE WITH MONITORED ENTRAPMENT PROTECTION DEVICE

- Momentary contact to open and stop with constant pressure to close.
- Open override that reverses when closing by any opening device.
- Wiring for entrapment protection device to reverse.

**NOTE:** The operator will automatically convert to B2 wiring when Monitored Entrapment Protection Device is installed. (See accessories page for Monitored Entrapment ProtectionDevices.)

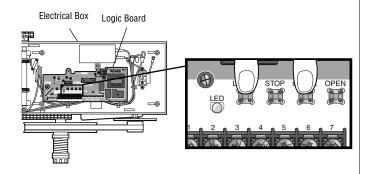
• Timer-to-Close (TTC) feature not available.

#### MONITORED ENTRAPMENT PROTECTION DEVICE



### To Program:

Press and hold the LEARN and CLOSE buttons until the LED goes out (approximately 3 seconds).



### To Reset to B2 with Monitored Entrapment Protection Device:

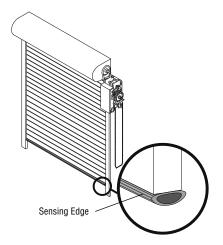
**1** Press and hold the LEARN and STOP buttons until the LED goes out (approximately 3 seconds).

### ALTERNATE INSTALLATION: C2 WIRING TYPE WITHOUT MONITORED ENTRAPMENT PROTECTION DEVICE

### (FACTORY DEFAULT)

- Momentary contact to open and stop with constant pressure to close.
- Open override that reverses when closing by any opening device.
- Wiring for entrapment protection device to reverse. **NOTE:** The operator will automatically convert to B2 wiring when Monitored Entrapment Protection Device is installed. (See accessories page for Monitored Entrapment Protection Devices.)
- Timer-to-Close (TTC) feature not available.

#### NON-MONITORED ENTRAPMENT PROTECTION DEVICE



### Reset to FACTORY DEFAULT (C2) without Monitored Entrapment Protection Device:

- **1** Remove any monitored entrapment protection devices.
- **2** Press and hold the LEARN and STOP buttons until LED goes out (approximately 3 seconds).

### **BASIC PROGRAMMING**

# **WARNING**

To prevent possible SEVERE INJURY or DEATH:

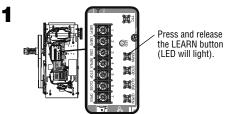
- Install a LiftMaster Monitored Entrapment Protection (LMEP) device.
- NEVER permit children to operate or play with door control push buttons or remote controls.
- Activate door ONLY when it can be seen clearly, is properly adjusted and there are no obstructions to door travel.
- · ALWAYS keep door in sight until completely closed. NEVER permit anyone to cross the path of closing door.

RADIO OPERATION							
MODE	OPEN	CLOSE	STOP	REVERSE WHILE CLOSING	TTC RESET		
B2	X	X	X	X			
B2 with TTC	X	X (3-button remote)	X	X	X when open		
C2	X		X	X			

### **REMOTE CONTROLS**

Built in 315 MHz radio receiver permits as many as 20 Security +<sup>®</sup> remote controls or dip switch remote controls in any combination.

### SINGLE BUTTON REMOTE CONTROL

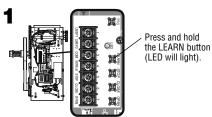


Press and hold the button on the remote control until the LED flashes rapidly, then release to complete programming (LED will go out).

Repeat steps 1 and 2 for additional remote controls.

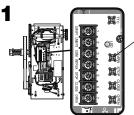
### 3-BUTTON REMOTE CONTROL TO OPERATE AS A WIRELESS 3-BUTTON CONTROL STATION

**NOTE:** The feature will use 3 of the 20 memory channels in the operator.

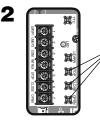


Repeat steps 1 through 3 to program additional buttons.

### **TO ERASE ALL REMOTE CONTROLS**



Press and hold the LEARN button (over 5 seconds) until the LED goes out. All programmed remote controls will be erased



Press the desired button on the logic board (OPEN. CLOSE or STOP) Release both buttons



Press and hold the desired button of the remote control until LED flashes rapidly, then release.



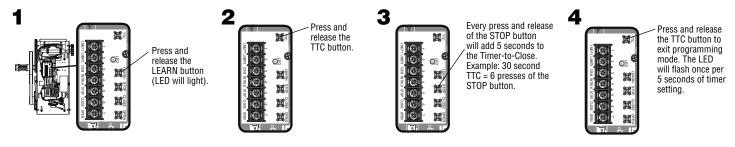
### **BASIC PROGRAMMING**

### TIMER-TO-CLOSE (TTC)

Timer-to-Close feature enables the operator to close from the open limit after a preset time, adjustable from 5 to 60 seconds. **Requires** LiftMaster Monitored Entrapment Protection (LMEP) device.

### **TO PROGRAM**

Begin with door in fully closed position.

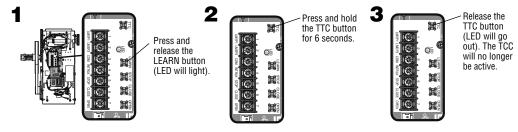


The TTC will become active after completion of the next open cycle. NOTE: The LED does not indicate that timer is running.

### TO VERIFY TIMER-TO-CLOSE (TTC) SETTING



### **CLEAR THE TIMER-TO-CLOSE (TTC)**



### TIMER DEFEAT

The TTC can be temporarily disabled by pressing a STOP button. TTC will become enabled after the next open command.

# A WARNING

To avoid SERIOUS personal INJURY or DEATH:

- Disconnect electric power BEFORE performing ANY adjustments or maintenance.
- ALL maintenance MUST be performed by a trained door systems technician.

Turn on power, LED will flash 4 times on power up. Test all controls and entrapment protection devices to make sure they are working properly. It may be necessary to refer back to the Adjustment section for adjustment of the limits.

### IMPORTANT NOTES:

- Do not leave power to the operator on unless all entrapment protection devices have been tested and are working properly.
- Be sure you have read and understand all safety instructions included in this manual.
- Be sure the owner or person(s) responsible for operation of the door have read and understand the safety instructions, know how to electrically operate the door in a safe manner and how to manually disconnect the door from the operator.

### **TEST 3-BUTTON CONTROL STATION**

- **1** Press OPEN button. (The door should move in the open direction.)
- **2** Press STOP button. (The door should stop.)
- **3** Press CLOSE button. (The door should move in the close direction.)
- **4** Release CLOSE button. Door should stop if in C2 mode. (The door should continue closing if in B2 mode.)
- **5** Press STOP button. (The door should stop.)

### **TEST LIMIT ADJUSTMENT**

- Press OPEN button. (The door should open.)
- **2** Allow the door to fully open.
- **3** Press CLOSE button. (The door should close.)
- **4** Allow the door to fully close.

If the limits are not set properly, remove power and adjust limits (refer to installation manual).

### **TEST THE ENTRAPMENT PROTECTION DEVICES**

- Open the door.
- **2** Place an obstruction in the path of the photoelectric sensors or sensing edge.
- **3** Press the CLOSE button. The door should not close if photoelectric sensors are installed. The door should close to obstruction and reverse if sensing edge is installed.
- **4** Remove the obstruction.
- 5 Press CLOSE button. Door should close.

If door did not reverse from obstruction, check entrapment protection devices.

### **TEST REMOTE CONTROL**

Requires B2 wiring type and compatible LiftMaster remote control. In C2 wiring the remote control will open the door only.

- Press remote control button.
- **2** Door should open. Allow the door to fully open.
- **3** Press remote control button.
- **4** Door should close. Allow door to fully close.

### **EMERGENCY DISCONNECT**

The operators have provisions for manually operating the door in case of emergency or power failure. Refer to the appropriate instructions for your model operator.

### A WARNING

To prevent possible SERIOUS INJURY or DEATH from a falling door or arm:

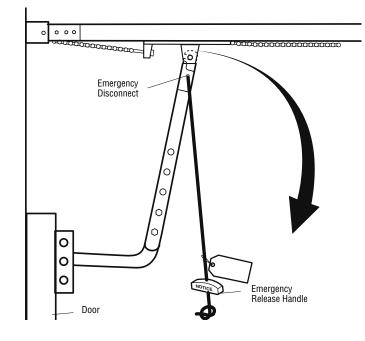
- DO NOT stand under the door arm when pulling the emergency release.
- If possible, use emergency release handle to disengage trolley ONLY when door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.
- NEVER use emergency release handle unless doorway is clear of persons and obstructions.

### **MODEL MT/BMT**

### **TO DISCONNECT DOOR FROM OPERATOR**

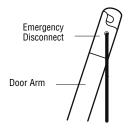
1 Pull emergency release handle straight down. Emergency disconnect will open.





### **TO RECONNECT DOOR ARM TO TROLLEY**

- **1** Lift free end of door arm to trolley.
- **2** Pull emergency release handle to allow arm to engage roll pin.
- **3** Let go of the emergency release handle. Emergency disconnect will close.



# EMERGENCY DISCONNECT

# A WARNING

To prevent possible SERIOUS INJURY from a moving chain:

- DISCONNECT electric power to the operator BEFORE manually operating your door.
- If possible, use emergency disconnect ONLY when door is CLOSED. Weak or broken springs or unbalanced door could result in an open door falling rapidly and/or unexpectedly.

### MODEL MH

These operators are equipped with a manual hoist. An electrical interlock will disable the electrical controls when the hoist is used.

- Pull the disconnect chain (sash chain) to engage the hoist mechanism. The disconnect chain may be locked in position by slipping the end through the keyhole of the chain keeper mounted on the wall.
- **2** Operate the door in the desired direction by pulling on one side or the other of the continuous loop hoist chain.
- **3** The disconnect chain must be released from the chain keeper before the door will operate again electrically.

### **MODEL MHS**

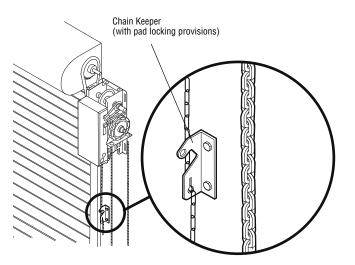
The MHS operator includes both a floor level disconnect sash chain to disconnect the door from the door operator that allows manual push up operation and an additional sash chain to engage the manual chain hoist that also electrically disables the operator controls.

**1** Refer to Model MH instructions for hoist operation.

**2** Refer to Model MJ instructions for emergency operation.

When the manual chain hoist sash chain is engaged, electrical operation will not function.

### ELECTRICAL INTERLOCK WITH HOIST FOR MODELS MH AND MHS



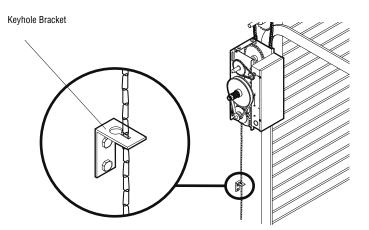
NEVER use emergency disconnect unless doorway is clear of persons and obstructions.

### **MODELS MJ AND MGJ**

This operator has a floor level disconnect chain to disconnect the door from the door operator.

- **1** To disengage, pull the chain and secure in the disengaged position by slipping the end through the keyhole bracket mounted on the wall. Or if emergency egress device is used, pull handle to disengage operator from door.
- **2** The door may now be pushed up or pulled down manually.
- **3** Release the disconnect chain or reset the emergency egress device to operate the door again electrically.

#### EMERGENCY DISCONNECT FOR MODELS MJ



# TROUBLESHOOTING

To locate a dealer in your area visit us online at www.liftmaster.com.

CONDITION	POSSIBLE CAUSE	FIX			
OPERATOR WILL NOT Respond to any Commands	No power	► Check circuit breaker.			
	Accessory failure	<ul> <li>Verify photoelectric sensors are aligned.</li> </ul>			
	Possible component failure	► Contact your installing dealer.			
OPERATOR MAKES Noise but door Does not move	Operator requires adjustment	► Contact your installing dealer.			
	Operator or door requires adjustment	► Contact your installing dealer.			
DOOR OPENS/CLOSES Too Far	Operator requires adjustment	► Contact your installing dealer.			
	Entrapment protection device activated	Verify photoelectric sensors are aligned. If photoelectric sensors are aligned and operator still does not operate properly, contact your installing dealer.			
RADIO FUNCTIONALITY					
I NO RESPONSE	Remote control is not programmed	► See PROGRAMMING REMOTE CONTROLS section.			
	Low battery	► Replace battery.			
REMOTE CANNOT BE Programmed	Low battery	► Replace battery.			
POOR RANGE	Low battery in remote	► Replace battery.			
	Possible radio interference	► Contact your installing dealer.			

# MAINTENANCE SCHEDULE

# A WARNING

To avoid SERIOUS personal INJURY or DEATH from electrocution, disconnect ALL electric power BEFORE performing ANY maintenance.

Every 3 months or 5,000 cycles repeat all tests in the Testing section. Call qualified service contractor for maintenance. To locate a dealer in your area visit us online at www.liftmaster.com.

The operator should be serviced at the following intervals:

- Every 3 months or 5,000 cycles
- Every 6 months or 10,000 cycles
- Every 12 months or 20,000 cycles

OPERATOR NOTES						

# ACCESSORIES

### REMOTE CONTROLS 315 MHZ (

LiftMaster offers a variety of **SECURITY+**<sup>®</sup> Remote Controls for your application needs. Single to 4-Button, visor or key chain. Contact your authorized dealer.

#### 371LM

### **1-Button SECURITY+® Remote Control:**

Includes visor clip.

#### 373LM

### **3-Button SECURITY+® Remote Control:**

Includes visor clip.

#### 333LM

### 3-Button Tri-Colored Dip Switch Remote Control:

Open/Close/Stop functionality. Includes visor clip.

#### WPB1LM3

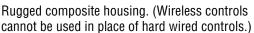
# Wireless Single Push Button Control SECURITY+®:



Rugged composite housing. (Wireless controls cannot be used in place of hard wired controls.)

### WPB3LM3

# Wireless 3 Button Control Station SECURITY+®:



#### WKP5LM3 (5 4-digit entry codes) WKP250LM3 (250 4-digit entry codes)

# Wireless Access Control Keypads SECURITY+®:



Rugged composite housing. (Wireless controls cannot be used in place of hard wired controls.)

### **CONTROL STATIONS**

#### 02-102

2-Button Control Station: Steel enclosure.

#### 02-103

**3-Button Control Station:** Steel enclosure.

#### 02-109

Key Control Station: Indoor flush mount, NEMA 1.





# 71-6023

**Chain Tensioner:** For 1" shafts

### 71-6125

**Chain Tensioner:** For 1-1/2" shafts

### ENTRAPMENT PROTECTION DEVICES

### CPS-UN4

### **Commercial Protector System:**

LiftMaster Monitored Entrapment Protection (LMEP) provides protection on doors up to 45' wide. NEMA-4 rated.

### CPS-U

### **Commercial Protector System:**

LiftMaster Monitored Entrapment Protection (LMEP) provides protection on doors up to 30' wide.

### CPS-EI



Requires 4-wire monitored sensing edge.

**Monitored Sensing Edge Interface:** 

### 65ME1234

**Miller ME123 4-Wire Monitored Safety Edge:** For sectional or rolling doors.

### 65ME110

**Miller ME110 4-Wire Monitored Safety Edge:** For rolling grilles and counter shutters.

### **MOUNTING BRACKETS**

### 10-12360

### **Mounting Brackets:**

Angle mounting bracket, Painted steel, for MJ, MH, and MHS.



### Medium Duty Angle Mounting Bracket:

CHAIN TENSIONERS -

Heavy-gauge steel bracket. May be welded. For use with MJ, MGJ, and MH operators.



### For Jackshaft Type Operators





### FIELD MODIFICATION KITS

### 71MLSBC

#### **Single Button Control:**

Provides additional input for Single Button Control functionality. Input functions as Close input when the operator is stopped at the Open limit. Input functions as Open input at all other times. Also used with external radio controls.

#### **71 MLMOTION**

### Door-In-Motion:

Provides dry contact and a terminal block with contacts switched to power an auxiliary device while the door is in motion.

### ANTENNA

### EXT-ANT

### Antenna:

External kit for medium duty.

### 86LM (15') 86LMT (25')

#### Antenna Extension Kit:

The antenna extension kit can be used with EXT-ANT for maximum radio receiver range.

