

# Cargo Multiplex System Consumer Manual

(UM14 ~ 22272-02)



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## Introduction

This manual provides the necessary information for the proper use of Tri*Mark*'s **e-ASK** system.

**Note:** Some features discussed in this manual may not be available on your system.

Included with this system are the following components:

- e-FOB: remote FOB transmitter and receiver
- e-PAD: keypad user interface or e-GRAB keypad integrated grab handle. Clean acrylic rod with mild soap and water only.
- e-ASK: I/O module

Use the pictures below to properly identify the contents of this system.

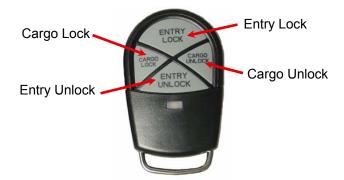


e-GRAB Handle





## e-FOB Operation and Features



The FOB transmitter and receiver are shipped programmed. When the OEM has installed your **e**-*FOB* system, it will function as indicated below.

Button	Function	
Entry Lock	Locks entry door and arms security system.	
Entry Unlock	Inlocks entry doors and disarms security system. Also activates the porch light.	
Cargo Lock	Locks cargo doors and arms security system.	
Cargo Unlock	Unlocks cargo doors and disarms security system. Also activates compartment lights.	

#### Notes:

- Only the unlocking function of the **e**-**FOB** remains while the engine is running—other functions are deactivated.
- Upon applying battery voltage, the system may default into panic mode. This occurs if the system was armed when the battery was disconnected. Pressing the unlock button disarms the system and deactivates the panic mode.



## Non-doorbell e-PAD Operation and Features

The **e-PAD** is shipped with default authority and access codes. Unless the OEM or dealer has changed default codes, the authority and access codes are as follows:

Access code:

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
1 / 2	3 / 4	5/6	7 / 8	9/0

Authority code:

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
7 / 8	7 / 8	7 / 8	7 / 8	7 / 8

## **Doorbell e-PAD Operation and Features**

The **e-PAD** is shipped with default authority and access codes. Unless the OEM or dealer has changed default codes, the authority and access codes are as follows:

Access code:

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
1	2	3	4	4

Authority code:

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
4	4	4	4	4

## Locking Doors With Keypad

Press and hold down the (1/2) or (1) button for 1-2 seconds. An access code is not needed to lock the doors.

### **Secure Operations**

Entering a valid 5-digit access code enables secure operations. After entering an access code, the keypad is enabled for 5 seconds and a 6th button press initiates a secure operation, such as unlocking the doors.

#### Notes:

- The authority code does not allow for secure operations. It is only used to assign access codes (see page 8 for information on setting access codes).
- If an unassigned button or no button is pressed while the system is enabled, the keypad reverts back to disabled state.
- The secure keypad operations are set depending on the system configuration.

### Doorbell

Press and release the doorbell button. The doorbell does not require an access code.

## e-PAD Configurations

Secure operations are dependent on system configuration. The **e**-**PAD** system can be configured in a variety of ways (see Appendix A, page I). Ask your dealer for the 6th digit operation for your vehicle.

The following table can be used to document the 6th digit operation of your vehicle.

6th Digit Pressed	Operation
Button (1 / 2) or (1)	
Button (3 / 4) or (2)	
Button (5 / 6) or (3)	
Button (7 / 8) or (4)	
Button (9 / 0) or N/A	



## **Optional Features**

These features may not be available on your vehicle.

## e-PAD / e-FOB Dome/Porch Light Activation

The dome/porch light is activated for a timed duration (5-60 seconds) whenever a keypad button is pressed or when system is unlocked from FOB transmitter or vehicle switch. Contact your dealer to adjust duration. The dome/porch light is deactivated with starting the engine.

## e-PAD Protective Deactivating Security

If a correct code is not entered after 20 button presses, the keypad enters an inactive mode that disables button recognition for 1 minute. This helps prevent unauthorized access by entering random codes. There is no button feedback while the system is disabled.

## e-GRAB Handle Lighting

The grab handle is lit continuously. The **e-PAD** is lit with a button press and while training new access and authority codes.

## Locking and Unlocking Confirmation

- When either the entry or cargo doors are locked from the **-***FOB* transmitter, the headlights flash once and the horn honks once. If the other set of doors is locked with 10 seconds, the headlights flash twice and the horn honks twice. Locking all doors via vehicle switch or keypad provides a single headlight flash and horn honk.
- There is no horn or light confirmation with an unlock command.
- Locking and unlocking confirmation is deactivated while the engine is running.

## **Deactivate Lock Confirmation**

The system defaults to confirmation ON with power-up. Horn and headlight confirmation can be toggled off and on from the keypad.

- 1. Enter valid access code.
- Hold down (9 / 0) or (4) button until double beep sounds. Release.
- 3. Press (1 / 2) or (1) button.

**Note:** Lights flash and horn honks to indicate that you are setting horn and headlight confirmation to ON.



## **Door Ajar Warning**

A triple siren chirp sounds if any compartment or entry door is open when the entry and compartment doors are locked. If a door is open, the alarm is not armed.

### Alarm Mode

After locking all doors, the system is armed. Both the entry door and compartment doors must be locked within 10 seconds to set the alarm. The alarm is activated when the entry door or compartment doors are opened, or by an extra security input.

When the alarm is triggered, the siren is continuously activated and headlights flash for a maximum of 1 minute. Unlocking all doors via FOB transmitter, keypad, or starting the engine deactivates alarm mode.

**Note:** The extra security input may be connected to external shock sensing, motion detection or other sensing device. Contact your dealer for details.

The following table describes audio/visual activations at various conditions.

Outputs	Lock Confirmation	Unlock Confirmation	Alarm
Siren	Not used	Not used	1 minute or when shut off
Horn	1 chirp	2 chirps	Not used
Headlights	1 flash	2 flashes	1 minute or when shut off

#### **Timed Dome/Porch Light Activation**

The dome/porch light is activated upon pressing any keypad button or by unlocking entry door via FOB transmitter. The dome/porch light duration can be varied. Contact your dealer to adjust duration. Starting the engine deactivates the light.



## Automatic Locking and Unlocking

The system may include auto-locking. When auto-locking is enabled, doors are locked 5 seconds after the engine is started. Doors unlock when the engine is turned off.



## Teaching e-PAD New Access Codes

With an active authority code, additional access codes can be programmed with the following instructions:

- 1. Press the (5 / 6) button or (3) for 5 seconds the keypad will beep. The backlighting LED of the keypad will flash indicating the learn mode.
- 2. Enter the 5-digit authority code (see page 3 for the default code). Keypad will provide a long beep that will stop after you have defined an access number.
- 3. Press and release the button that corresponds to the access number. During this activity you are defining 1 of 4 access numbers. A subsequent code will be assigned to this access number. The keypad will provide a confirmation beep after this single button press.
- 4. Enter in your new 5-digit access code. The keypad will provide confirmation beeps.
- 5. Re-enter new access code. The keypad will provide confirmation beeps.

Repeat process to assign additional access codes.

#### Note:

Up to 5 different access codes can be assigned. Four different access codes are available with the doorbell version. As additional access codes are defined, pre-existing access codes are over-written. For example, if a new access code is assigned for access #3, the previous #3 access code is no longer valid.

The following area can be used to document the access code assignment.

User #	User Name	Digit 1	Digit 2	Digit 3	Digit 4	Digit 5
1						
2						
3						
4						
5						



## **Troubleshooting**

Problem Description	Possible Solution			
e-FOB Hints				
Button press does not provide	Verify power to the I/O module and RF receiver.			
correct operation	Re-teach the FOB transmitter to the receiver. Ensure that only Lock button is pressed while in learn mode.			
No operation or intermittent	Mount RF receiver away from enclosed metal areas and fully extend antenna.			
No operation or intermittent operation	Check FOB transmitter battery voltage. Batteries need to be changed every 1-2 years depending on usage.			
Alarm mode starts when powered up	Press Unlock button of FOB transmitter.			
One particular <b>e-FOB</b> function does not work	Check wire connection of affected function at RF module, wiring harness, and I/O module.			
e-/	PAD Hints			
No reasonable with button proces	Verify power to the I/O module; check fuse.			
No response with button press	Verify that keypad cable is connected. (rest of system will function)			
Access code is not recognized	Verify that code has not been changed. Reassign keypad with instructions on page 8.			
Ŭ	Confirm use of an access code, not the authority code.			
Unexpected, secure operation occurs	Verify DIP switches are set to correct configuration setting.			
Acrylic rod of <b>e-GRAB</b> develops surface cracks	A petroleum or alcohol based product was used to clean rod. Only use mild soap and water on rod.			

e-ASK I/O Hints			
No response in any system element	Verify power to the I/O module; check fuse.		
Lights and panic mode do not turn off with ignition start	Verify that connector J11, pins 7, 8 and 9 are wired properly.		
	Verify that power to relay comes from connector J12, pin 1.		
Output relay latches on or off	Cycle power to system. If condition continues, replace relay.		

This product has been manufactured with methods to ensure high quality and to meet the high expectations of our customers. Tri*Mark* warrants this product to be free from workmanship defects and will remedy issues per Tri*Mark*'s warranty policy.

Remote transmitter FOBs, batteries, and other equipment subject to normal wear and deterioration may need to be replaced periodically by dealer and/or end user and are not covered by this warranty. Tri*Mark* will not be liable for indirect, special, incidental or consequential damages.



## Appendix A: Available Keypad Configurations

### Non-doorbell Configuration A

- Button (1 / 2): Unassigned
- Button (3 / 4): Unlocks all entry and compartment doors
- Button (5 / 6): Unassigned
- Button (7 / 8): Toggles Aux 1 output
- Button (9 / 0): Activates zone 6 unidirectional actuation

## Non-doorbell Configuration B

- Button (1 / 2): Unlocks all entry door(s)
- Button (3 / 4): Unlocks all entry and compartment doors
- Button (5 / 6): Unassigned
- Button (7 / 8): Toggles Aux 1 output
- Button (9 / 0): Activates zone 6 unidirectional actuation

## Non-doorbell Configuration C

- Button (1 / 2): Unlocks all entry doors
- Button (3 / 4): Unlocks all doors assigned to relay bank A
- Button (5 / 6): Unlocks all doors assigned to relay bank B
- Button (7 / 8): Unlocks all doors assigned to relay bank C
- Button (9 / 0): Unlocks all doors assigned to relay bank D

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## Non-doorbell Configuration D

Configuration D is standard for non-doorbell.

- Button (1 / 2): Unlocks all entry doors
- Button (3 / 4): Unlocks all entry and compartment doors
- Button (5 / 6): Unlocks all compartment doors (banks C-D)
- Button (7 / 8): Unlocks all compartment doors (banks A-B)
- Button (9 / 0): Toggles Aux 1 output



## **Doorbell Configuration A**

- Button (1): Unassigned
- Button (2): Unlocks all entry and compartment doors
- Button (3): Unassigned
- Button (4): Toggles Aux 1 output
- Button (doorbell): Activates zone 6 unidirectional actuation

### **Doorbell Configuration B**

- Button (1): Unlocks all entry door(s)
- Button (2): Unlocks all entry and compartment doors
- Button (3): Unassigned
- Button (4): Toggles Aux 1 output
- Button (doorbell): Activates zone 6 unidirectional actuation

## **Doorbell Configuration C**

- Button (1): Unlocks all entry doors
- Button (2): Unlocks all doors assigned to relay bank A
- Button (3): Unlocks all doors assigned to relay bank B
- Button (4): Unlocks all doors assigned to relay bank C
- Button (doorbell): Activates zone 6 unidirectional actuation

## **Doorbell Configuration D**

Configuration D is standard for doorbell.

- Button (1): Unlocks all entry doors
- Button (2): Unlocks all entry and compartment doors
- Button (3): Unlocks all compartment doors (banks C-D)
- Button (4): Unlocks all compartment doors (banks A-B)
- Button (doorbell): Activates zone 6 unidirectional actuation



## Notes:



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