

e-ASK

electronic **A**ccess **S**ecurity **K**eyless-entry

e-FOB RF Keyless-entry System TM-Multi Installation Manual

FCC ID: TV2EFOB1
(UM21 ~ 22795-01)



500 Bailey Avenue
P.O. Box 350
New Hampton, Iowa 50659 U.S.A.
Tel: 641-394-3188
Fax: 641-394-2392
www.trimarkcorp.com

Table of Contents

- Introduction 1**
- e-FOB Operation and Features 2**
- DIP Switch Setting Assignment..... 2**
 - DIP Switch #1: 5-Channel or 7-Channel Mode 2
 - DIP Switch #2: Channel 1-2 Sustained Output 3
 - DIP Switch #3: Channel 3-4 Sustained Output 3
 - DIP Switch #4: Lock/Unlock Confirmation 3
- Teaching Additional FOB Transmitters 3**
- Troubleshooting 4**
- Appendix: Installation and Mounting e-FOB System I**
 - General Mounting Guidelines I
 - Wiring Color Code Tables and Diagrams I
 - Polarity of Channel 1 & 2 Input..... I
 - RF Receiver I
 - Wiring Connections..... IV

Introduction

This manual provides the necessary information for the proper installation and use of TriMark's **e-FOB** transmitter/receiver system.

Basic functions of the system include:

- Locking and unlocking entry doors
- Light activation

The **e-FOB** system includes:

- Receiver
- 2 FOB transmitters
- 10-pin wire harness
- 5-pin wire harness

The receiver and FOB transmitters are shipped programmed. After making all necessary wiring connections (see appendix page I), the **e-FOB** system will function as indicated in this manual.



e-FOB Operation and Features



Button	Function
Lock	Locks all doors.
Unlock	Unlocks all doors.

DIP Switch Setting Assignment

The DIP switch settings control additional functions. Power to the receiver should be disconnected and reconnected after a DIP switch is changed. Functional assignments are described below:

Switch		DIP Switch Settings	
#1	Channel Output	ON = 5-channels, no onboard relays	OFF = 7-channels 2 relay outputs
#2	Channels 1-2	ON = Sustained	OFF = Pulse
#3	Channels 3-4	ON = Sustained	OFF = Pulse
#4	Channels 6-7	ON = Independent	OFF = Lock/Unlock Confirmation

DIP Switch #1: 5-Channel or 7-Channel Mode

- DIP switch #1 ON: Outputs available on 10-pin harness. No output at relays.
- DIP switch #1 OFF: Two relay outputs (30 amp) and 5 non-relay outputs available.

DIP Switch #2: Channel 1 - 2 Sustained Output

- DIP switch #2 ON: Channels 1 - 2 provide a sustained output. Output lasts as long as the button is pressed—up to 30 seconds.
- DIP switch #2 OFF: Channels 1 - 2 provide a pulse output.

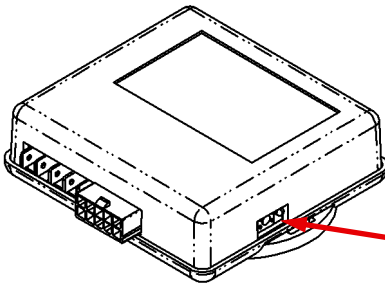
DIP Switch #3: Channel 3 - 4 Sustained Output

- DIP switch #3 ON: Channels 3 - 4 provide a sustained output. Output lasts as long as the button is pressed—up to 30 seconds.
- DIP switch #3 OFF: Channels 3 - 4 provide a pulse output.

DIP Switch #4: Lock/Unlock Confirmation

- DIP switch #4 ON: Channels 6 - 7 provide independent operation.
- DIP switch #4 OFF: Channel 6 provide 1 flash confirmation for lock and 2 flash confirmation for unlock. Channel 7 provide 30 second output.

Teaching Additional FOB



- Programming Button
- LED

1. Turn ignition off.
2. Press and release the programming button 3 times. The LED will turn on after 3 seconds.
3. Press and release the Lock button of each new FOB transmitter once. The LED will flash. Up to 4 transmitters may be programmed at one time.

Notes:

- If you place the system in learn mode and teach nothing, the system will exit in 10 seconds.
- When new transmitters are taught, all old transmitters are erased.
- The memory for codes will not be erased if power is removed.
- As soon as the LED turns off, the system is fully functional.

Troubleshooting

Problem Description	Possible Solution
e-FOB Hints	
Button press does not provide correct operation	Verify power to the RF receiver
	Replace FOB transmitter battery
	Re-teach the FOB transmitter to the receiver
No operation or intermittent operation	Mount RF receiver away from enclosed metal areas and fully extend antenna
	Check FOB transmitter battery voltage. Batteries need to be changed every 1-2 years depending on usage.
One particular e-FOB function does not work	Check wire connection of affected function at RF module and wiring harness

This product has been manufactured with methods to ensure high quality and to meet the high expectations of our customers. TriMark warrants this product to be free from workmanship defects and will remedy issues per TriMark'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. TriMark will not be liable for indirect, special, incidental or consequential damages.

This system complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference received including interference that may cause undesired operation.

Note: The manufacturer is not responsible for any radio or television interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Appendix: Installation and Mounting e-FOB System

Contact TriMark for specific mounting details, such as drawings, placement suggestions, cable loop straps, etc.

General Mounting Guidelines:

The RF receiver should be placed in an interior location that does not shield RF signals. You may need to try multiple locations to optimize reception. The antennae must be left fully extended and exposed. Minimize shielding from metal enclosures. Loop straps hook through the tabs and are screwed to the vehicle for mounting.

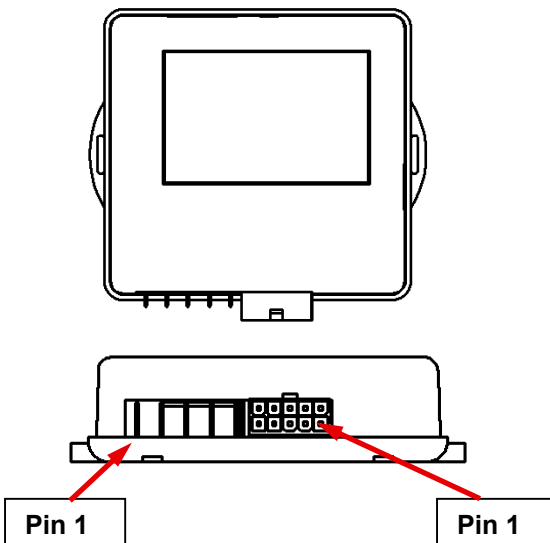
Wiring Color Code Tables and Diagrams

The following tables and diagrams are provided to show color-coded wire and pin assignments for the **e-FOB** system. Connect all wires before plugging module into wiring harness. Mating connector and terminals to 10-pin connector is Amp 1-106527-0 and terminals 106529-2 or equivalents. The 5-pin harness mates with 0.25-inch female spade terminals.

Polarity of Channel 1 & 2 Input:

The jumpers located next to the DIP switch define polarity. When the jumpers are over the top terminals, the system is looking for a positive input. If the jumpers are at the bottom, a negative input is required.

RF Receiver



DIP Switch #1 - OFF		
WIRE COLORS	CONNECTOR 5: 5-PIN HARNESS	
Yellow	Channel 2 output (30 amp)	1
Brown	Channel 1 output (30 amp)	2
Red	Lock/Unlock Polarity (N/O) relay	3
Orange	Channel 2 (N/C)	4
Purple	Channel 1 (N/C)	5
WIRE COLORS	CONNECTOR 4: 10-PIN HARNESS	
Black	System Ground (-)	1
Green	Channel 2 Input	2
Purple	Channel 7 Output (dome light)	3
Blue	Channel 5 Output	4
Orange	Channel 3 Output	5
Red	+12V System Power	6
Yellow	Ignition Input	7
Gray	Channel 1 Input	8
White/Black	Channel 6 Output (confirmation pulse)	9
Brown	Channel 4 Output	10

* DO NOT USE A TEST LIGHT ON THE MODULE'S 500MA OUTPUTS



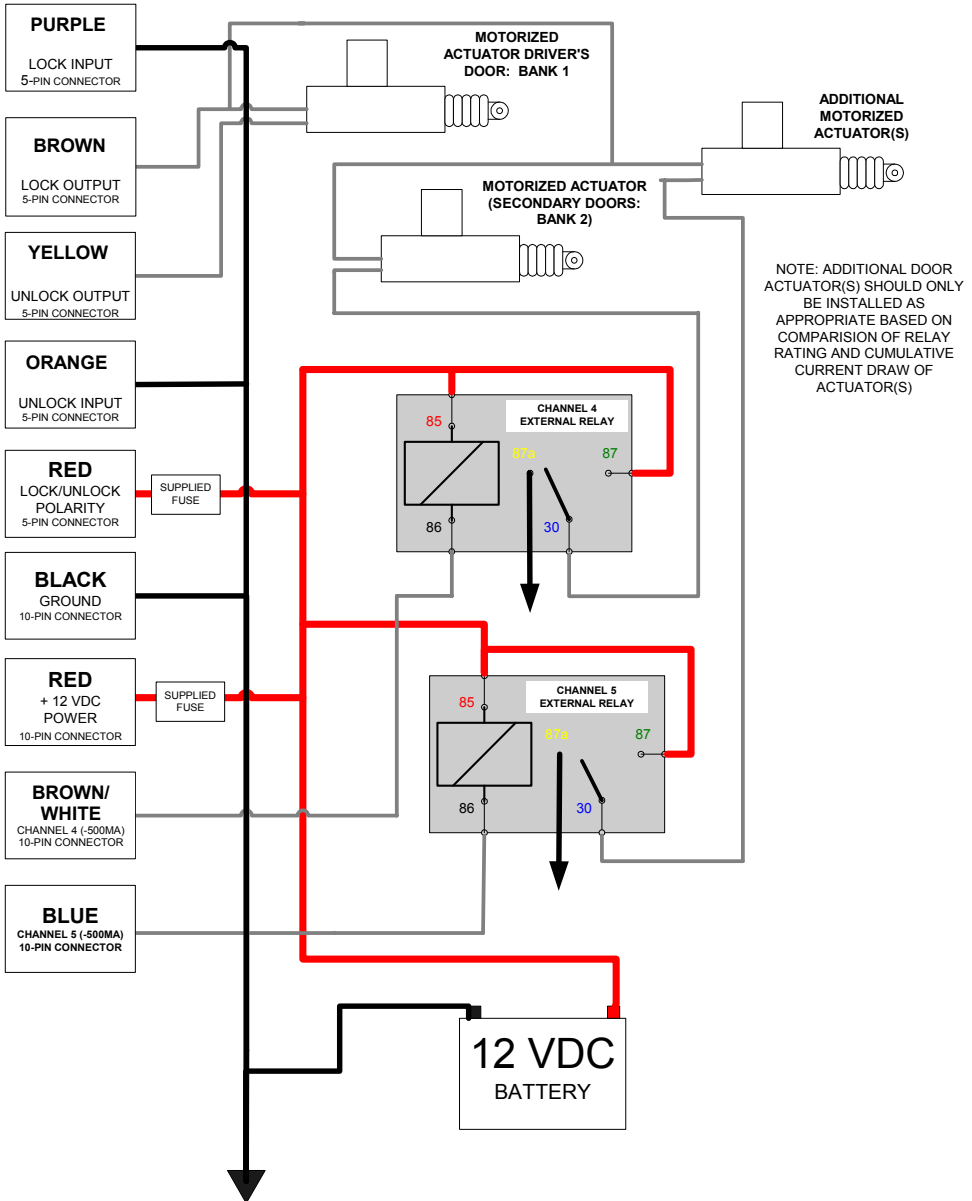
DIP Switch #1 - ON		
WIRE COLORS	CONNECTOR 5: 5-PIN HARNESS	
Not Available		
WIRE COLORS	CONNECTOR 4: 10-PIN HARNESS	
Black	System Ground (-)	1
Green	--	2
Purple	Channel 5 Output	3
Blue	Channel 3 Output	4
Orange	Channel 1 Output	5
Red	+12V System Power	6
Yellow	Ignition Input	7
Gray	--	8
White/Black	Channel 4 Output	9
Brown	Channel 2 Output	10

* DO NOT USE A TEST LIGHT ON THE MODULE'S 500MA OUTPUTS



Wiring Connections

WIRING CONNECTION - LOCK/UNLOCK



Notes



500 Bailey Avenue
P.O. Box 350
New Hampton, Iowa 50659 U.S.A.
Tel: 641-394-3188
Fax: 641-394-2392
www.trimarkcorp.com

UM21
22795-01
06/08-2