

Rewiring Guide

This guide explains how to upgrade from the discontinued TriNET Multiplex (MUX) Controller (18970-XX, 19268-XX, 20431-XX, 20856-XX, or 22796-XX) to the 22310-01 TM-FF Controller. Use the tables explaining each wire's location and purpose for the old and new modules in conjunction with the equivalency spreadsheet and schematic for the recommended retrofit installation. Wire colors for the original installation may not match those mentioned in this guide, so reference only the parent connector and pin location when matching up wires.

In the new module, the RF receiver and I/O controller are all in one module instead of two components bolted or taped together. Depending on how many functions were integrated by your OEM, several listed wires and/or connectors may not be present in your installation. Those can safely be skipped.

TriNET MUX Wiring Definitions

The following diagram and tables detail where each connector is located and what each wire's pin location and purpose is for the original equipment installation. The default factory color is called out, but your installation may differ if the OEM provided integrated harnesses.

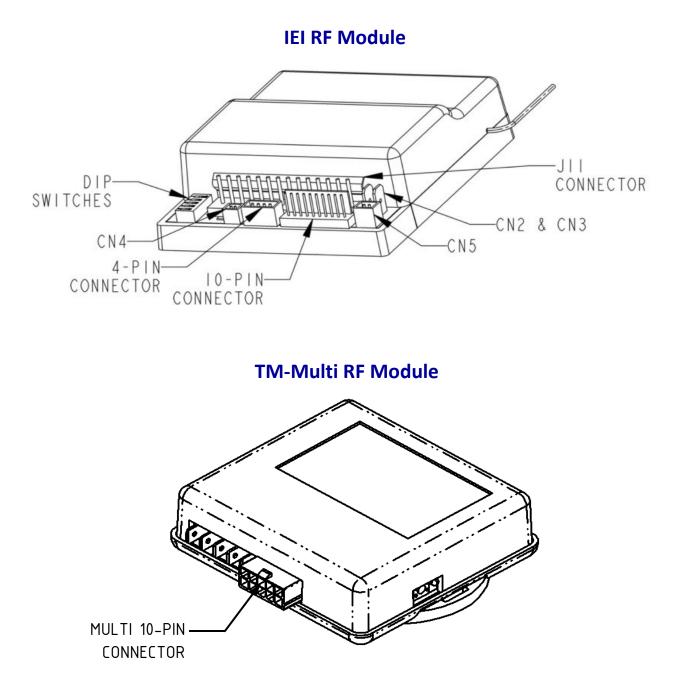
TriNET MUX Module Connector Names and Locations

$ \begin{array}{c} \text{J12 AUX 0} \\ \circ \circ \circ \circ \circ \circ \\ \hline \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	••••	J2 SWITCHES			POWER
	SANKA	J7 BANKB	BANKC	SANKD	



TriNET RF Module Connector Names and Locations

The RF receiver on the OEM installation could be one of 2 devices. The names and connector definitions are shown below. Only one of these two modules will be on your original equipment. Make a note of your best match, and use those connector references for the remainder of the upgrade.





TriNET MUX Module Wire Definitions

	J1 Connector (Power)	Default Wire Color
1	POWER (+12V) Input	RED
2		
3	GROUND Input	BLACK
	J2 Connector (Switch Inputs)	Default Wire Color
1	**SEE CONFIG TABLE** (-500mA)	OEM Defined
2	**SEE CONFIG TABLE** (-500mA)	OEM Defined
3	**SEE CONFIG TABLE** (-500mA)	OEM Defined
4	**SEE CONFIG TABLE** (-500mA)	OEM Defined
5	**SEE CONFIG TABLE** (-500mA)	OEM Defined
6	**SEE CONFIG TABLE** (-500mA)	OEM Defined
7	ACTUATE ZONE 6 Input (-500mA)	OEM Defined
8	TOGGLE AUX 1 Input (-500mA)	OEM Defined
9	TOGGLE AUX 2 Input (-500mA)	OEM Defined
10	ENTRY DOOR AJAR SIGNAL Input (-500mA)	OEM Defined
11	COMPARTMENT DOOR AJAR SIGNAL Input (-500mA)	OEM Defined
12	TRIGGER SECURITY Input (-500mA)	OEM Defined
	J3 & J4 Connectors (Keypads)	Default Wire Color
1	POWER Output (+12V)	BLACK
2	GROUND Output	BROWN
3	TriNET A	BLUE
4	TriNET B	GREEN / YELLOW
J5, J	7, J8, & J10 Connectors (Banks A-D or CARGO BAYS)	Default Wire Color
1	LOCK Output	GREEN
2	UNLOCK Output	BLUE
	J6 Connector (Zone 1 or ENTRY DOOR)	Default Wire Color
1		
	LOCK Output	RED
2	UNLOCK Output	BLUE
2	UNLOCK Output J9 Connector (Zone 6 Switch)	BLUE Default Wire Color
2	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input	BLUE Default Wire Color OEM Defined
2	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output	BLUE Default Wire Color OEM Defined OEM Defined
2 1 2	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF)	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color
2 1 2 1	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE
2 1 2 1 2	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK
2 1 2 1 2 3	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / GREEN
2 1 2 1 2 3 4	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / GREEN WHITE / RED
2 1 2 1 2 3 4 5	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input AUX Input	BLUE Default Wire Color OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / GREEN WHITE / RED PURPLE / WHITE
2 1 2 1 2 3 4 5 6	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input AUX Input PANIC Input	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / GREEN WHITE / RED PURPLE / WHITE BROWN / WHITE
2 1 2 1 2 3 4 5 6 7	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / BLACK WHITE / GREEN WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN
2 1 2 1 2 3 4 5 6 7 8	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output IGNITION SENSOR Output	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / BLACK WHITE / GREEN WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN GREEN
2 1 2 1 2 3 4 5 6 7	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output IGNITION SENSOR Output PIN 7 & 8 POLARITY Input	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / BLACK WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN GREEN WHITE / BLACK
2 1 2 1 2 3 4 5 6 7 7 8 8 9	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output IGNITION SENSOR Output PIN 7 & 8 POLARITY Input J12 Connector (AUX Outputs)	BLUE Default Wire Color OEM Defined DEfault Wire Color PURPLE / WHITE WHITE / BLACK WHITE / BLACK WHITE / GREEN WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN GREEN WHITE / BLACK Default Wire Color
2 1 2 1 2 3 3 4 5 6 7 7 8 9 9 1	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output IGNITION SENSOR Output IGNITION SENSOR Output PIN 7 & 8 POLARITY Input J12 Connector (AUX Outputs) POWER (+12V) Output	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / GREEN WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN GREEN WHITE / BLACK Default Wire Color OEM Defined
2 1 2 3 4 5 6 7 8 8 9 9 1 1 2	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output IGNITION SENSOR Output IGNITION SENSOR Output PIN 7 & 8 POLARITY Input J12 Connector (AUX Outputs) POWER (+12V) Output HORN Output (-500mA)	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / GREEN WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN GREEN WHITE / BLACK Default Wire Color OEM Defined OEM Defined
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2 1 2 3 4 5 6 7 8 9 9 1 1 2 3 3 4	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output IGNITION SENSOR Output IGNITION SENSOR Output PIN 7 & 8 POLARITY Input J12 Connector (AUX Outputs) POWER (+12V) Output HORN Output (-500mA) HEADLIGHTS / MARKER LIGHTS Output (-500mA) DOME / PORCH LIGHT Output (-500mA)	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / BLACK WHITE / BLACK WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN GREEN WHITE / BLACK Default Wire Color OEM Defined OEM Defined OEM Defined OEM Defined
2 1 2 1 2 3 4 5 6 7 8 9 1 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output IGNITION SENSOR Output IGNITION SENSOR Output PIN 7 & 8 POLARITY Input J12 Connector (AUX Outputs) POWER (+12V) Output HORN Output (-500mA) HEADLIGHTS / MARKER LIGHTS Output (-500mA) DOME / PORCH LIGHT Output (-500mA) AUX 1 Output (-500mA)	BLUE Default Wire Color OEM Defined OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / BLACK WHITE / GREEN WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN GREEN WHITE / BLACK Default Wire Color OEM Defined
2 1 2 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 6 7 8 9 7 8 9 6 6 6 6 6 7 8 8 9 6 6 6 6 6 6 6 6 6 6 6 6 6	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output IGNITION SENSOR Output IGNITION SENSOR Output PIN 7 & 8 POLARITY Input J12 Connector (AUX Outputs) POWER (+12V) Output HORN Output (-500mA) HEADLIGHTS / MARKER LIGHTS Output (-500mA) DOME / PORCH LIGHT Output (-500mA) AUX 1 Output (-500mA)	BLUE Default Wire Color OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / BLACK WHITE / BLACK WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN GREEN WHITE / BLACK Default Wire Color OEM Defined
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2 1 2 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 6 7 8 9 7 8 9 6 6 6 6 6 7 8 8 9 6 6 6 6 6 6 6 6 6 6 6 6 6	UNLOCK Output J9 Connector (Zone 6 Switch) ZONE 6 Input ZONE 6 Output J11 Connector (I/O from RF) GROUND Output +12V Output LOCK Input UNLOCK Input AUX Input PANIC Input KEY INSERTED SENSOR Output IGNITION SENSOR Output IGNITION SENSOR Output PIN 7 & 8 POLARITY Input J12 Connector (AUX Outputs) POWER (+12V) Output HORN Output (-500mA) HEADLIGHTS / MARKER LIGHTS Output (-500mA) DOME / PORCH LIGHT Output (-500mA) AUX 1 Output (-500mA)	BLUE Default Wire Color OEM Defined Default Wire Color PURPLE / WHITE WHITE / BLACK WHITE / BLACK WHITE / BLACK WHITE / RED PURPLE / WHITE BROWN / WHITE WHITE / BROWN GREEN WHITE / BLACK Default Wire Color OEM Defined



TriNET MUX Module Configuration Table

The configuration of your module can be determined by removing the cover that the RF module is attached to and examining the 4-Block DIP switch on the PCB. Switches 1 and 2 determine the configuration. Refer to the table below to identify your settings. [CONFIG X (SW1,SW2)]

J2 Connector Pin	CONFIG A (OFF,OFF)	CONFIG B (OFF,ON) Primary, Secondary Control	CONFIG C (ON,OFF) Individual Control	CONFIG D (ON,ON) Typical RV Setting
1	LOCK ALL Input	LOCK ALL Input	LOCK ALL Input	LOCK ALL Input
2	UNLOCK ALL Input	UNLOCK ALL Input	UNLOCK ENTRY DOOR Input	UNLOCK ALL Input
3	*UNASSIGNED*	LOCK ALL BANKS (A-D) Input	UNLOCK BANK A Input	UNLOCK BANKS C-D Input
4	*UNASSIGNED*	UNLOCK ALL BANKS (A-D) Input	UNLOCK BANK B Input	UNLOCK BANKS A-B Input
5	*UNASSIGNED*	LOCK ENTRY DOOR Input	UNLOCK BANK C Input	LOCK ENTRY DOOR Input
6	*UNASSIGNED*	UNLOCK ENTRY DOOR Input	UNLOCK BANK D Input	UNLOCK ENTRY DOOR Input

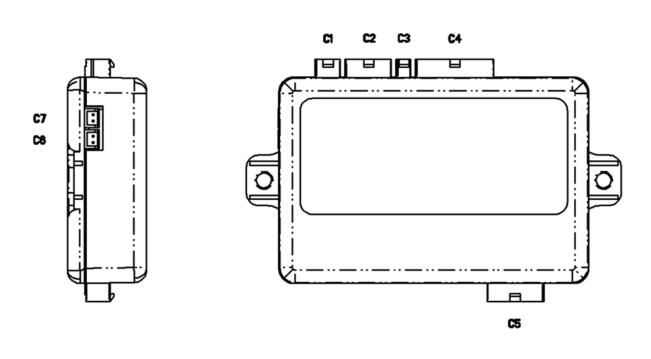
TriNET RF Module Wire Definitions

	IEI RF Module		TM-Multi RF Module			
	IEI J11 Connector	Default Wire Color		TM-Multi 10-Pin Connector	Default Wire Color	
1	CARGO UNLOCK Input/Output (12A Relay)	PURPLE / WHITE	1	GROUND Input	BLACK	
2	CARGO UNLOCK Input/Output (12A Relay)	PURPLE / WHITE	2	*UNASSIGNED*		
3	ENTRY LOCK Output (N / C Relay 30)	WHITE / GREEN	3	*UNASSIGNED*		
4	LOCK Input (N / C Relay 87A)	WHITE / BLACK	4	PANIC Output	BLUE	
5	KEY FOB LEARN WIRE (Not Connected)	YELLOW	5	LOCK Output	ORANGE	
6	GROUND Input	BLACK	6	POWER (+12V) Input	RED	
7	*UNASSIGNED*	<u> </u>	7	*UNASSIGNED*		
8	POWER Input (+12V)	RED	8	*UNASSIGNED*		
9	ENTRY UNLOCK Input (N / C Relay 87A)	BLUE / WHITE	9	AUXILLARY Output	PURPLE	
10	UNLOCK Output (N / C Relay 30)	WHITE / RED	10	UNLOCK Output	BROWN	
11	LOCK / UNLOCK Polarity (N / O Relay 87)	PINK / BLACK				
12	*UNASSIGNED*	— -				
13	*UNASSIGNED*	— -				
14	*UNASSIGNED*					
	IEI 10-Pin Connector	Default Wire Color				
1	*UNASSIGNED*	— -				
2	*UNASSIGNED*	— -				
3	CARGO LOCK Output	BROWN / WHITE				
4	*UNASSIGNED*	<u> </u>				
5	*UNASSIGNED*	<u> </u>				
6	*UNASSIGNED*	— -				
7	*UNASSIGNED*					
8	*UNASSIGNED*	<u> </u>				
9	*UNASSIGNED*	<u> </u>				
10	*UNASSIGNED*	<u> </u>				
	IEI 4-Pin Connector	Default Wire Color				
2	(-) UNLOCK SIGNAL Input	WHITE / RED				
4	(-) LOCK SIGNAL Input	WHITE / GREEN				
	IEI 0.25" Male Connectors					
CN2 &	STARTER KILL Relay					
CN3	Non-Polarized, 40A					



TriMark Full-Feature (TM-FF) Wiring Definitions

This table details what each wire's purpose, its parent connector, and its pin location for the TM-FF RF Module. The wire colors called out in this table are accurate if you've purchased the kit including pig-tail harnesses. Wire colors will vary if you've purchased an adaptor harness from a manufacturer other than Tri*Mark*.



TM-FF RF Module Connector Names and Locations



TM-FF RF Module Wire Definitions

	C1: 4-PIN HARNESS	Default Wire Color
1		None
2	IGNITION Input	YELLOW
3	GROUND Input	BLACK
4	POWER (+12V) Input	RED
	C2: KEYPAD HARNESS Pre-Made Harness	Default Wire Color
	(p/n 22305-01 or 23981-01)	
	C3: 2-PIN HARNESS	Default Wire Color
1	(-) LOCK SIGNAL Input	GREEN / WHITE
2	(-) UNLOCK SIGNAL Input	BLUE / WHITE
	C4: 14-PIN HARNESS	Default Wire Color
1	(-) SECURITY TRIGGER Input 3	WHITE / PURPLE
2	ARMED Output (-500mA)	ORANGE
3	STARTER KILL Output (-500mA)	BROWN
4	HEADLIGHTS Output (-500mA)	GRAY
5	HORN Output (-500mA)	BROWN / WHITE
6	(-) SECURITY TRIGGER Input 1	WHITE / BLACK
7	SIREN Output (A/C)	WHITE / YELLOW
8	AUX 2 Output (-500mA)	RED / WHITE
9	AUX 1 Output (Relay +15A)	BLACK / WHITE
10	2 ND UNLOCK Output (-500mA)	WHITE / ORANGE
11	3 RD UNLOCK / STAGGERED LOCK (-500mA)	WHITE / BLUE
12	PARKING LIGHTS Output (Relay +15A)	WHITE
13	(+) SECURITY TRIGGER Input 2	WHITE / RED
14	SIREN Output (A/C)	GREEN
	C5: 10-PIN HARNESS	Default Wire Color
1	DOOR LOCK (N/C) (Relay 30A)	GREEN / BLACK
2		
3	DOME LIGHT Output (Relay 15A)	PURPLE
4	DOME LIGHT (N/O) (Relay 15A)	PINK
5	DOME LIGHT (N/C) (Relay 15A)	PINK / BLACK
6	DOOR LOCK (N/O) (Relay 30A)	GREEN / WHITE
7	DOOR LOCK Output (Relay 30A)	GREEN
8	DOOR UNLOCK (N/C) (Relay 30A)	BLUE / BLACK
9	DOOR UNLOCK (N/O) (Relay 30A)	BLUE / WHITE



Wire Equivalency Spreadsheets and Wiring Diagrams

This table lists which wires are direct replacements between the two keyless entry systems. The two tables list similar information, but organized in different ways. Use both tables to check which wires are relevant to your upgrade, and to double-check your work after rewiring is complete. These tables are meant to be used in conjunction with the diagrams and descriptive tables listed at the beginning of the manual.

Wiring diagrams at the back of the manual are a graphical representation of the information shown in the tables. The wiring diagrams show the original equipment still connected to the RV, but it should be removed when rewiring or after it is completed. Leaving the original installation attached to the RV after rewiring and applying power may cause some unintentional short between power and ground and could cause extensive equipment damage. Completely remove the original installation's modules before powering the new installation.

١	NIRE EC	UIVALENC	Y SORTED	BY NEW		NNECTIONS			
New System			New System REPLACES			Old System LARGE I/O BOARD			
Connector	Pin	Wire Color		Connector	Pin	Wire Purpose			
C1	1								
C1	2	Yellow		J11	7	KEY INSERTED/IGNITION			
C1	3	Black		J1	3	GROUND INPUT			
C1	4	Red		J1	1	+12V INPUT			
C2	ALL	New Keypad Harness							
C3	1	Green/White		J2	1	ENTRY LOCK INPUT (-)			
C3	2	Blue/White		J2	2	ENTRY UNLOCK INPUT (-)			
64	1))//hite/Dunnele		J2	10	(-) SECURITY TRIGGER INPUT			
C4	1	White/Purple		J2	11	(DOORS AJAR)			
C4	2	Orange		NO CONNECT	ION	ARMED OUTPUT (-500mA)			
C4	3	Brown		NO CONNECT	ION	STARTER KILL OUTPUT (-500mA)			
C4	4	Gray		NO CONNECT	ION	LIGHTS OUTPUT (-500mA)			
C4	5	Brown/White		J12	2	HORN OUTPUT (-500mA)			
C4	6	White/Black		J2	12	(-) SECURITY TRIGGER INPUT			
C4	7	White/Yellow		J12	9	SIREN OUTPUT (A/C)			
C4	8	Red/White		J12	6	AUX2 OUTPUT (-500mA)			
C4	9	Black/White		J12	5	AUX OUTPUT (+15 A)			
C4	10	White/Orange		EXTERNAL RE	LAYS	2ND UNLOCK OUTPUT (-500mA)			
C4	11	White/Blue		EXTERNAL RE	LAYS	STAGGERED LOCK OUTPUT (-500mA)			
C4	12	White		J12	3	PARKING LIGHTS (+15A)			
C4	13	White/Red		NO CONNECT	ION	(+) SECURITY TRIGGER INPUT			
C4	14	Light Green		NO CONNECT	ION	SIREN OUTPUT (A/C)			
C5	1	Green/Black		GROUND BUS		GROUND INPUT			
C5	2								
C5	3	Purple		J12	4	DOME LIGHT OUTPUT (+15A)			
C5	4	Pink		12V BUS		+12V INPUT			
C5	5	Pink/Black		GROUND BUS		GROUND INPUT			
C5	6	Green/White		12V BUS		+12V INPUT			
C5	7	Green		J6	1	ENTRY LOCK OUTPUT			
C5	8	Blue/Black		GROUND BUS		GROUND INPUT			
C5	9	Blue/White		12V BUS		+12V INPUT			
C5	10	Blue		J6	2	ENTRY UNLOCK OUTPUT			

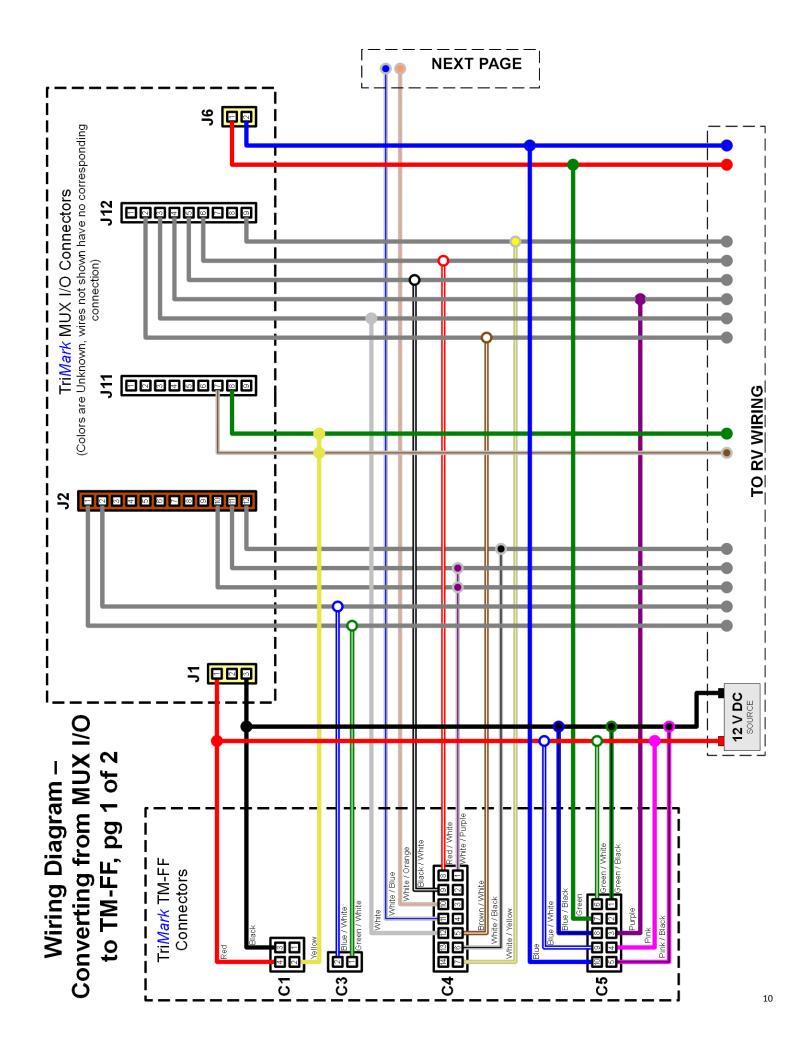


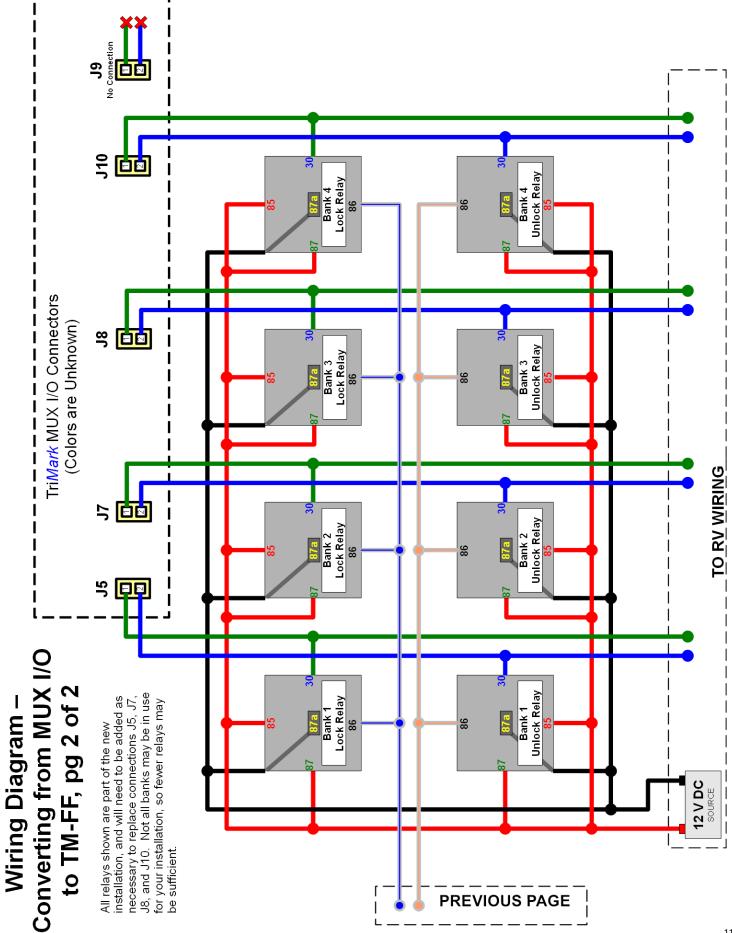
		SORTED BY O		IECTIONS		
	0	ILD SYSTEM I/O BOARD	REPLACED BY	NE	W SYSTEM	Л
Connector	Pin	Wire Purpose		Connector	Pin	Potential Wire Cold
J1	1	+12V BUS		C1	4	RED
J1	2					
J1	3	GROUND BUS		C1	3	BLACK
J2	1	LOCK ALL INPUT		C3	1	GREEN/WHITE
J2	2	UNLOCK ENTRY DOORS INPUT		C3	2	BLUE/WHITE
J2	3			NO 0	CONNECTI	ON
J2	4	DEPENDS ON DIP SWITCHES		NO 0	CONNECTI	ON
J2	5	DET ENDS ON DIT SWITCHES		NO (CONNECTI	ON
J2	6			NO (CONNECTI	ON
J2	7	ACTUATE ZONE 6		NO (CONNECTI	ON
J2	8	AUX 1 INPUT		NO (CONNECTI	ON
J2	9	AUX 2 INPUT		NO (CONNECTI	ON
J2	10	DOOR AJAR INPUT		C4	1	WHITE/PURPLE
J2	11	CARGO AJAR INPUT				
J2	12	SECURITY INPUT		C4	6	WHITE/BLACK
J3	ALL	OLD KEYPAD HARNESS		NO (CONNECTI	ON
J4	ALL	OLD KEYPAD HARNESS		NO CONNECTION		
J5	1	BANK A LOCK OUTPUT		BANK A LOCK RELAY	30	BLUE
J5	2	BANK A UNLOCK OUTPUT		BANK A UNLOCK RELA	Y 30	BLUE
J6	1	ENTRY LOCK OUTPUT		C5	7	GREEN
J6	2	ENTRY UNLOCK OUTPUT		C5	10	BLUE
J7	1	BANK B LOCK OUTPUT		BANK B LOCK RELAY	30	BLUE
J7	2	BANK B UNLOCK OUTPUT		BANK B UNLOCK RELA	Y 30	BLUE
J8	1	BANK C LOCK OUTPUT		BANK C LOCK RELAY	30	BLUE
18 I	2	BANK C UNLOCK OUTPUT		BANK C UNLOCK RELA		BLUE
J9	1	X		NO CONNECTION		
19	2	x			CONNECTI	
J10	1	BANK D LOCK OUTPUT		BANK D LOCK RELAY	30	BLUE
J10 J10	2	BANK D LOCK OUTPUT		BANK D LOCK RELAY 30		BLUE
J11 J11	1 2	GROUND TO RF RECVR +12V TO RF RECVR			CONNECTI	
J11 J11	2	LOCK FROM RF RECVR			CONNECTI	
J11 J11	4	UNLOCK FROM RF RECVR			CONNECTI	
J11 J11	5	* BUTTON FROM RF RECVR			CONNECTI	
J11 J11	6	PANIC FROM RF RECVR		-	CONNECTI	
J11 J11	7	KEY INSERTED			LONNLCH	
J11 J11	8	ENGINE RUNNING		C1	2	YELLOW
J11	9	POLARITY FOR P7 AND P8		NO (CONNECTI	ON
J12	1	+12V BUS			CONNECTI	
J12 J12	2	HORN OUTPUT		C4	5	BROWN/WHITE
J12 J12	2	HEADLIGHT OR MARKER LIGHT OUTPUT		C4 C4	5 12	WHITE
J12 J12	3 4	INTERIOR LIGHT / PORCH LIGHT OUTPUT		C5	3	PURPLE
J12 J12	4 5	AUXILLARY 1 OUTPUT		C3 C4	3 9	BLACK/WHITE
J12 J12	5	AUXILLARY 1 OUTPUT AUXILLARY 2 OUTPUT		C4 C4	9 8	RED/WHITE
J12 J12	0 7	ENTRY DOOR AJAR OUTPUT			o CONNECTI	
J12 J12	8	CARGO AJAR OUTPUT			CONNECTI	
J12 J12	8 9	SIREN OUTPUT		C4	JONNECTI 7	WHITE/YELLOW

No other connections are used from this system



EXTERNAL RELAYS				CONNECT TO			
Relay Type	Terminal	Typ Wire Color		Connector	Pin	Purpose	
BANK A LOCK	85	RED		12V BUS		+12V INPUT	
BANK A LOCK	86	BLACK		C4	P11	CARGO LOCK GROUND SIGNAL	
BANK A LOCK	87	GREEN		12V BUS		+12V INPUT	
BANK A LOCK	87a	YELLOW		GROUND BUS		GROUND INPUT	
BANK A LOCK	30	BLUE		J5	P1	BANK A LOCK OUTPUT	
BANK A UNLOCK	85	RED		12V BUS		+12V INPUT	
BANK A UNLOCK	86	BLACK		C4	P10	CARGO UNLOCK GROUND SIGNAL	
BANK A UNLOCK	87	GREEN		12V BUS		+12V INPUT	
BANK A UNLOCK	87a	YELLOW		GROUND BUS		GROUND INPUT	
BANK A UNLOCK	30	BLUE		J5	P2	BANK A UNLOCK OUTPUT	
BANK B LOCK	85	RED		12V BUS		+12V INPUT	
BANK B LOCK	86	BLACK		C4	P11	CARGO LOCK GROUND SIGNAL	
BANK B LOCK	87	GREEN		12V BUS		+12V INPUT	
BANK B LOCK	87a	YELLOW		GROUND BUS		GROUND INPUT	
BANK B LOCK	30	BLUE		J7	P1	BANK B LOCK OUTPUT	
BANK B UNLOCK	85	RED		12V BUS		+12V INPUT	
BANK B UNLOCK	86	BLACK		C4	P10	CARGO UNLOCK GROUND SIGNAL	
BANK B UNLOCK	87	GREEN		12V BUS		+12V INPUT	
BANK B UNLOCK	87a	YELLOW		GROUND BUS		GROUND INPUT	
BANK B UNLOCK	30	BLUE		J7	P2	BANK B UNLOCK OUTPUT	
BANK C LOCK	85	RED		12V BUS		+12V INPUT	
BANK C LOCK	86	BLACK		C4	P11	CARGO LOCK GROUND SIGNAL	
BANK C LOCK	87	GREEN		12V BUS		+12V INPUT	
BANK C LOCK	87a	YELLOW		GROUND BUS		GROUND INPUT	
BANK C LOCK	30	BLUE		J8	P1	BANK C LOCK OUTPUT	
BANK C UNLOCK	85	RED		12V BUS		+12V INPUT	
BANK C UNLOCK	86	BLACK		C4	P10	CARGO UNLOCK GROUND SIGNAL	
BANK C UNLOCK	87	GREEN		12V BUS		+12V INPUT	
BANK C UNLOCK	87a	YELLOW		GROUND BUS		GROUND INPUT	
BANK C UNLOCK	30	BLUE		J8	P2	BANK C UNLOCK OUTPUT	
BANK D LOCK	85	RED		12V BUS		+12V INPUT	
BANK D LOCK	86	BLACK		C4	P11	CARGO LOCK GROUND SIGNAL	
BANK D LOCK	87	GREEN		12V BUS		+12V INPUT	
BANK D LOCK	87a	YELLOW		GROUND BUS		GROUND INPUT	
BANK D LOCK	30	BLUE		J10	P1	BANK D LOCK OUTPUT	
BANK D UNLOCK	85	RED		12V BUS		+12V INPUT	
BANK D UNLOCK	86	BLACK		C4	P10	CARGO UNLOCK GROUND SIGNAL	
BANK D UNLOCK	87	GREEN		12V BUS		+12V INPUT	
BANK D UNLOCK	87a	YELLOW		GROUND BUS		GROUND INPUT	
BANK D UNLOCK	30	BLUE		J10	P2	BANK D UNLOCK OUTPUT	









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