Sigtronics Universal Y Adapter 6 Pin — 900116

Sigtronics Universal Y Adapter 6 Pin Installation Instructions

The Sigtronics Universal Y Adapter 6 Pin is designed to simplify the process of connecting a Sigtronics Emergency Intercom System or a MRIM-2 unit to your mobile radio.

Installation

1. To select an appropriate mounting location for the adapter, first connect it up to the radio. To do this, unscrew and remove the two screws on the top of the Universal Y adapter. Leave the lid in place on the adapter for now.

2. Unplug the radio hand mic from the radio mic jack and plug it into either one of the telephone type jacks on the Universal Y Adapter module.

3. Plug one end of the short cable that came with the adapter into the other telephone type jack on the Universal Y adapter.

4. Plug the other end of the short cable into the hand mic connector on radio.

5. Now you are ready to select a mounting location for the adapter. Select a spot out of the way so that the adapter and its cables will not interfere with the normal operation of the vehicle. Note one more cable will have to come out of the adapter for the wires that go to Sigtronics intercom or MRIM-2 unit. This cable can come out of any side of the adapter except the top. For convenience, the bottom of the adapter already has a hole for this. Make sure that the hand mic has enough cable length to be used properly. If necessary swap the hand mic and the short cable positions on the adapter for best cable routing.

6. Hold the adapter on the intended mounting place and remove the adapter lid. Mark with a pen or pencil through the two mounting holes and the cable hole (if desired) on the bottom of the adapter. If the cable to the Sigtronics intercom or MRIM-2 unit needs to come out the side of the adapter mark that hole also. **Note** cable holes on the side of the adapter *should be as close to the bottom as possible* to clear the adapters circuit components. Drill all the holes and mount with the supplied #10 sheet metal screws. **Note:** As an option to using the sheet metal screws, the included double sided foam tape may be used to mount the adapter.

7. Route the cable from the intercom or MRIM-2 unit through the hole on the adapter. **Note:** Use the wire supplied with the Sigtronics system for connection to the Universal Y terminal block. If unavailable use wire that has 22 or 24 gauge stranded conductors. Cut to length but leave a few inches for access.

8. Strip the insulation from the individual conductors about 1/2 inch. Twist the conductors to eliminate any loose strands. Using the appropriate wiring pinout table insert the wires into the terminal block holes. **Note:** Some configurations require that 2 wires be inserted into one hole. Two 22 or 24 gauge stranded wires carefully twisted together will fit into one hole correctly. To insert the wire, using a finger nail or small screw driver, press and hold the selected orange tab down towards the circuit board and insert the wire into the matching hole. Make sure the wire is inserted enough into the hole that insulation touches the hole entry (no exposed bare wire). Release the tab. Carefully inspect and fix any loose wire strands that did not make it into the hole. Repeat for all wires.

9. Install the provided tie wrap securely on the intercom or MRIM-2 cable so that the wires won't pull out of the adapter box.

10. Replace the adapter box lid making sure the wires do not get pinched around the edges. Reinstall the lid screws.

NOTES: Don't forget to also hook up the speaker wires (2 violet wires) from the Sigtronics intercom or MRIM-2 unit to the radio speaker leads. Adjust the Sigtronics intercom or MRIM-2 units transmit and receive levels per their appropriate installation instructions. Your existing radio hand mic and speaker will still function as normal.

WARRANTY: One year parts and labor.

⚠ **WARNING:** This product can expose you to chemicals including Polyvinyl Chloride, which is known to the State of California to cause cancer, and Lead, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

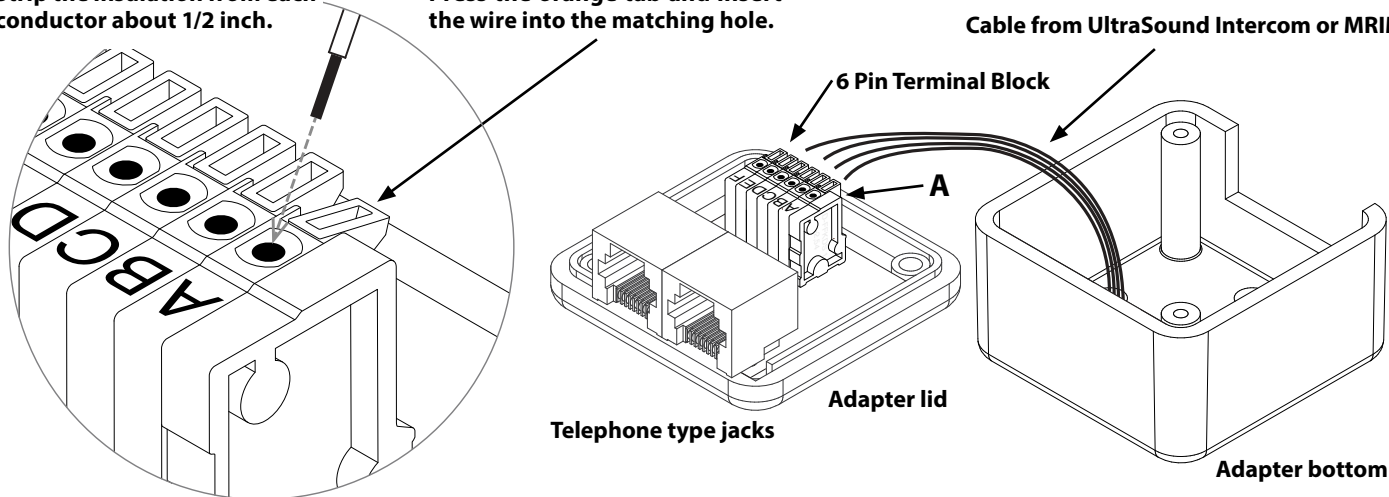| Standard Equipment Included		
Part Description	**Part Number**	**Quantity**
Adapter to Radio Cable — 6 Pin	100717	1
Box Cover Screws	100429	2
Box Mounting Screws	100452	2
Foam, Double Sided	100720	1
Tie Wrap	100450	1
Wire Grommet	100049	1

Specialists in "SOUND" Management
178 East Arrow Highway, San Dimas, CA 91773 (909) 305-9399

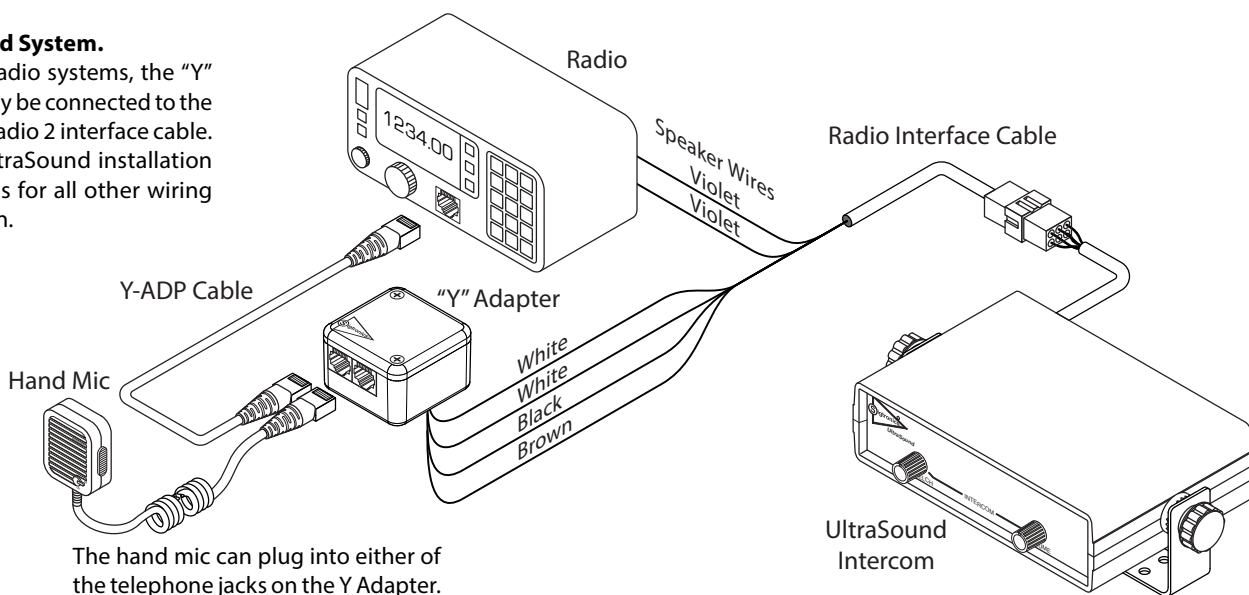**Strip the insulation from each conductor about 1/2 inch.**

Press the orange tab and insert the wire into the matching hole.

Cable from UltraSound Intercom or MRIM-2

6 Pin Terminal Block

A

ABCD

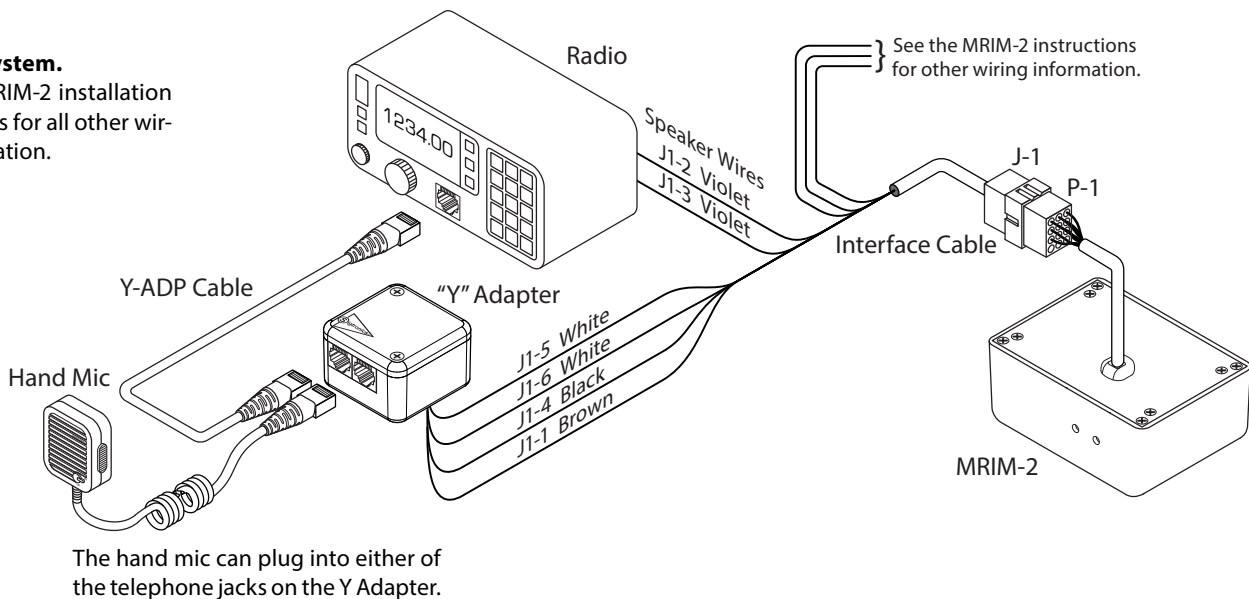**Telephone type jacks**

Adapter lid

Adapter bottom

UltraSound System.
For Dual Radio systems, the "Y" adapter may be connected to the radio 1 or radio 2 interface cable. See the UltraSound installation instructions for all other wiring information.

Radio

Speaker Wires
Violet
Violet

Radio Interface Cable

Y-ADP Cable

"Y" Adapter

Hand Mic

White
White
Black
Brown

UltraSound Intercom

The hand mic can plug into either of the telephone jacks on the Y Adapter.

MRIM-2 System.
See the MRIM-2 installation instructions for all other wiring information.

Radio

See the MRIM-2 instructions for other wiring information.

Speaker Wires
J1-2 Violet
J1-3 Violet

J-1
P-1

Interface Cable

Y-ADP Cable

"Y" Adapter

Hand Mic

J1-5 White
J1-6 White
J1-4 Black
J1-1 Brown

MRIM-2

The hand mic can plug into either of the telephone jacks on the Y Adapter.

Sigtronics Universal Mobile Radio Microphone Interface "Y" Adapter 6 Pin Terminal Block

Bendix King (Relm BK Radio)

DMH	EMH	ENB	KFM
DMHX	EMV	GMH	LMH

Terminal Block	Sigtronics Wire Color	Function
B	White	PTT HI
C	Black	MIC LO
C	White	PTT LO
D	Brown	MIC HI

Ericsson / GE

Monogram MGM148	Monogram MGM450
Monogram MGM160	

Terminal Block	Sigtronics Wire Color	Function
A	Black	MIC LO
B	White	PTT LO
D	Brown	MIC HI
E	White	PTT HI

EF Johnson

Challenger 7100 Series

Terminal Block	Sigtronics Wire Color	Function
A	Black	MIC LO
A	White	PTT LO
B	Brown	MIC HI
D	White	PTT HI

GME

TX4800U	TX4800UL	TX4800V

Terminal Block	Sigtronics Wire Color	Function
A	Black	MIC LO
A	White	PTT LO
B	Brown	MIC HI
D	White	PTT HI

Kenwood

TK-620	TK-722	TK-810	TK-860H
TK-622	TK-730	TK-815	TK-862
TK-630	TK-760	TK-820	TK-862H
TK-705	TK-760H	TK-822	TK-930
TK-710	TK-762	TK-830	TK-931
TK-715	TK-762H	TK-840	TK-940
TK-720	TK-805	TK-860	TK-941

Terminal Block	Sigtronics Wire Color	Function
B	Brown	MIC HI
C	Black	MIC LO
D	White	PTT HI
E	White	PTT LO

Maxon

SM-2150	SM-2450	SM-4150	SM-4450

Terminal Block	Sigtronics Wire Color	Function
A	Black	MIC LO
A	White	PTT LO
D	Brown	MIC HI
E	White	PTT HI

Motorola

Centro	MC Micro	M110 Radius	T340 Radius
Compact	Mostar		

Terminal Block	Sigtronics Wire Color	Function
C	White	PTT HI
D	Brown	MIC HI
E	Black	MIC LO
F	White	PTT LO

Raytheon

ACU-2000IP

Terminal Block	Sigtronics Wire Color	Function
A	White	PTT LO
B	Black	MIC LO
E	Brown	MIC HI
F	White	PTT HI

Raytheon / JPS Communications

ACU-1000

Terminal Block	Sigtronics Wire Color	Function
A	White	PTT LO
B	Black	MIC LO
E	Brown	MIC HI
F	White	PTT HI

Sigtronics Universal Mobile Radio Microphone Interface "Y" Adapter 6 Pin Terminal Block

Relm - Regency		
LMV2548B RMV60 SLV40 SMV Series		
RML60 SLU25 SMU Series		
Terminal Block	**Sigtronics Wire Color**	**Function**
B	**Black**	MIC LO
B	**White**	PTT LO
C	**White**	PTT HI
D	**Brown**	MIC HI

Yaesu		
FTM-200DR FTM-400DR FTM-500DR		
FTM-300DR FTM-400XDR FTM-500XDR		
Terminal Block	**Sigtronics Wire Color**	**Function**
C	**Black**	MIC LO
C	**White**	PTT LO
B	**Brown**	MIC HI
A	**White**	PTT HI

Ritron		
RPM-050 Patriot RPM-160 Patriot RPM-450 Patriot RPM-460 Patriot		
RPM-150 Patriot		
Terminal Block	**Sigtronics Wire Color**	**Function**
A	**Black**	MIC LO
A	**White**	PTT LO
B	**Brown**	MIC HI
C	**White**	PTT HI

Tait		
T700 Series	T2000 Series	
Terminal Block	**Sigtronics Wire Color**	**Function**
C	**White**	PTT HI
D	**Brown**	MIC HI
E	**White**	PTT LO
E	**Black**	MIC LO

Yaesu		
FT-1500M FT-2800M FT-7800R FT-8800R		
FT-1802M FT-2900R FT-7900R FT-8900R		
FT-1900R FT-7100M		
Terminal Block	**Sigtronics Wire Color**	**Function**
D	**Black**	MIC LO
D	**White**	PTT LO
E	**Brown**	MIC HI
F	**White**	PTT HI

Specifications subject to change without notice.