

# Sigtronics Universal Y Adapter 8 Pin — 900118



## Sigtronics Universal Y Adapter 8 Pin Installation Instructions

The Sigtronics Universal Y Adapter 8 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
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.

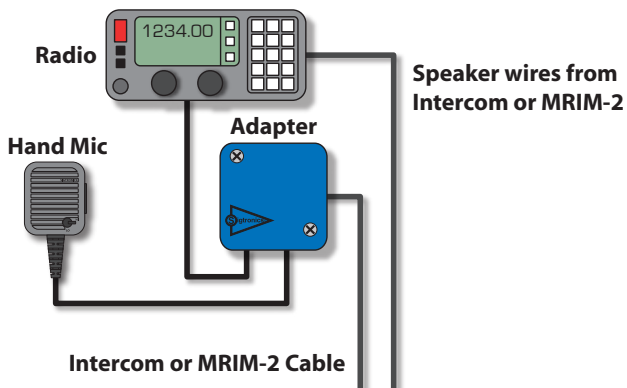
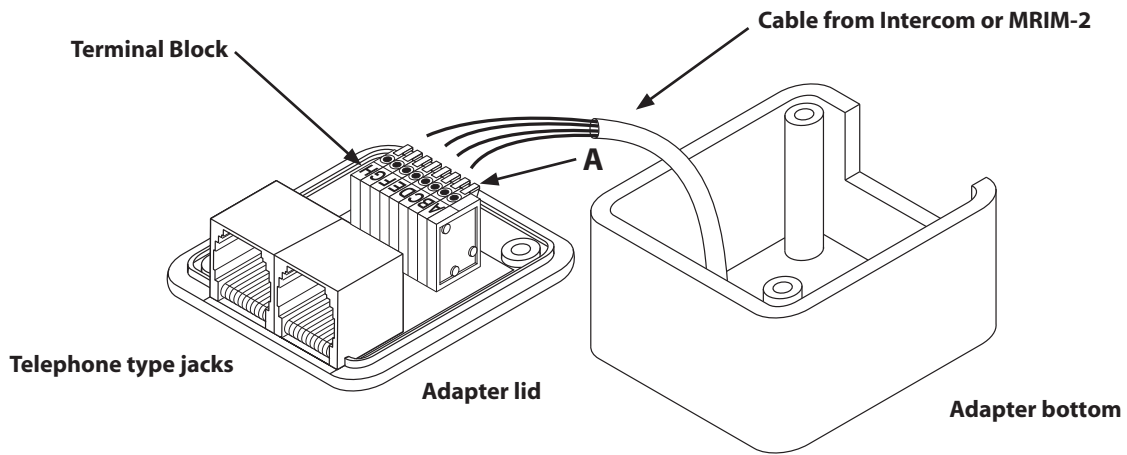
holes on the side of the adapter **should be as close to the bottom as possible** to clear the adapters circuit components. Drill all the holes and mount with the supplied #10 sheet metal screws. **Note:** As an option to using the sheet metal screws, the included double sided foam tape may be used to mount the adapter.

**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.



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



Standard Equipment Included		
Part Description	Part Number	Quantity
Adapter to Radio Cable — 8 Pin	100718	1
Box Cover Screws	100429	2
Box Mounting Screws	100452	2
Foam, Double Sided	100720	1
Tie Wrap	100450	1
Wire Grommet	100049	1

## Sigtronic Universal Mobile Radio Microphone Interface "Y" Adapter 8 Pin

EF Johnson		
• Falcon 7610		• Falcon 7640
Function	8 Pin	Sigtronic Wire Color
PTT HI	<b>D</b>	<b>White</b>
MIC LO	<b>E</b>	<b>Black</b>
MIC HI	<b>F</b>	<b>Brown</b>
PTT LO	<b>G</b>	<b>White</b>

HYT America		
• TM-600		• TM-610      • TM-800
Function	8 Pin	Sigtronic Wire Color
PTT LO	<b>C</b>	<b>White</b>
PTT HI	<b>D</b>	<b>White</b>
MIC LO	<b>E</b>	<b>Black</b>
MIC HI	<b>F</b>	<b>Brown</b>

EF Johnson		
• 8600 Series • 984x Series		• 988x Series • 989x Series
Function	8 Pin	Sigtronic Wire Color
MIC LO	<b>B</b>	<b>White</b>
PTT LO	<b>B</b>	<b>Black</b>
MIC HI	<b>C</b>	<b>Brown</b>
PTT HI	<b>E</b>	<b>White</b>

ICOM		
• IC-V220		• IC-U220
Function	8 Pin	Sigtronic Wire Color
MIC HI	<b>A</b>	<b>Brown</b>
MIC LO	<b>B</b>	<b>Black</b>
PTT LO	<b>D</b>	<b>White</b>
PTT HI	<b>E</b>	<b>White</b>

## Sigtronics Universal Mobile Radio Microphone Interface "Y" Adapter 8 Pin

ICOM		
<ul style="list-style-type: none"> <li>• IC-A110</li> <li>• IC-F110 / F111 / F121 / F121S / F210 / F211 / F221 / F221S / F320 / F320S / F420 / F520 / F521 / F620 / F621 / F1020 / F1721 / F1721D / F1821 / F1821D / F2020 / F2721 / F2721D / F2821 / F2821D / F5011 / F5021 / F5121D / F5061 / F6011 / F6021 / F6061 / F6121D / F9511HT / F9511S / F9511T</li> <li>• IC-207H / 706 / 2000 / 2000H / 2200H / 2350H / 2820H / 7000</li> </ul>		
Function	8 Pin	Sigtronics Wire Color
PTT HI	<b>D</b>	<b>White</b>
MIC LO	<b>E</b>	<b>Black</b>
MIC HI	<b>F</b>	<b>Brown</b>
PTT LO	<b>G</b>	<b>White</b>

Kenwood		
<ul style="list-style-type: none"> <li>• NX-700 / 700H / 800 / 800H</li> <li>• TK-750 / 760G / 760GH / 762G / 762GH / 780 / 850 / 860G / 860GH / 862G / 862GH / 863G / 880 / 885 / 980 / 981 / 5720 / 5820 / 6110 / 7102H / 7150 / 7160 / 7180 / 7302 / 7360HV / 8102H / 8150 / 8160 / 8180 / 8302 / 8360HU</li> <li>• TK-7100 and TK8100 ( International Models, not US )</li> <li>• TKR-750 and TKR-850</li> <li>• TM-G707A / G707E / V7A / V7E / 261 / 271 / 461 / 471 / 642A / 742A / 742E / 942A</li> </ul>		
Function	8 Pin	Sigtronics Wire Color
MIC HI	<b>C</b>	<b>Brown</b>
MIC LO	<b>D</b>	<b>Black</b>
PTT HI	<b>E</b>	<b>White</b>
PTT LO	<b>F</b>	<b>White</b>

Maxon		
<ul style="list-style-type: none"> <li>• SM2541</li> <li>• SM2544</li> <li>• SM-6150</li> <li>• SM-6450</li> </ul>		
Function	8 Pin	Sigtronics Wire Color
MIC LO	<b>B</b>	<b>Black</b>
PTT LO	<b>B</b>	<b>White</b>
MIC HI	<b>E</b>	<b>Brown</b>
PTT HI	<b>F</b>	<b>White</b>

Midland		
<ul style="list-style-type: none"> <li>• Syntech Bantam Series</li> <li>• Titan Series</li> </ul>		
Function	8 Pin	Sigtronics Wire Color
MIC LO	<b>F</b>	<b>Black</b>
PTT LO	<b>F</b>	<b>White</b>
PTT HI	<b>G</b>	<b>White</b>
MIC HI	<b>H</b>	<b>Brown</b>

Midland		
<ul style="list-style-type: none"> <li>• ML Series (Legacy)</li> <li>• MO Series (Olympian)</li> </ul>		
Function	8 Pin	Sigtronics Wire Color
MIC LO	<b>B</b>	<b>Black</b>
PTT LO	<b>B</b>	<b>White</b>
MIC HI	<b>E</b>	<b>Brown</b>
PTT HI	<b>F</b>	<b>White</b>

Midland		
<ul style="list-style-type: none"> <li>• STM-1050B</li> <li>• STM-1055B</li> <li>• STM-4040A</li> <li>• STM-4045A</li> </ul>		
Function	8 Pin	Sigtronics Wire Color
MIC LO	<b>A</b>	<b>Black</b>
PTT LO	<b>A</b>	<b>White</b>
PTT HI	<b>G</b>	<b>White</b>
MIC HI	<b>H</b>	<b>Brown</b>

Motorola		
<ul style="list-style-type: none"> <li>• CM 200 and CM 300</li> <li>• GM 140 / 160 / 300 / 350 / 600 / 900 / 950 / 1100 / 1200 / 2000</li> <li>• GTX</li> <li>• HT-100 MVA Convertacom</li> <li>• LCS2000</li> <li>• M10, M100, M120, M130, M208, M214, M216 Radius Series</li> <li>• Maxtrac 100, 300, 800</li> <li>• MC900 and MC2100</li> <li>• MCS-2000</li> <li>• MCX600, MCX1000, MCX1200, MCX2000</li> <li>• MTS-2000 MPVA Convertacom</li> <li>• PM400</li> <li>• SM-50 and SM-120</li> <li>• XTVA for XTS Portables (convertacom type box)</li> </ul>		
Function	8 Pin	Sigtronics Wire Color
PTT HI	<b>C</b>	<b>White</b>
MIC HI	<b>D</b>	<b>Brown</b>
MIC LO	<b>E</b>	<b>Black</b>
PTT LO	<b>E</b>	<b>White</b>

Motorola		
<ul style="list-style-type: none"> <li>• MCX-1000</li> </ul>		
Function	8 Pin	Sigtronics Wire Color
PTT LO	<b>B</b>	<b>White</b>
MIC HI	<b>C</b>	<b>Brown</b>
PTT HI	<b>E</b>	<b>White</b>
MIC LO	<b>F</b>	<b>Black</b>

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RELM		
• RMU25 • RMU45		• RMV25 • RMV50
Function	8 Pin	Sigtronics Wire Color
MIC LO	<b>D</b>	<b>Black</b>
PTT LO	<b>D</b>	<b>White</b>
MIC HI	<b>E</b>	<b>Brown</b>
PTT HI	<b>F</b>	<b>White</b>

RELM		
• RMU800A		• RMV800A
Function	8 Pin	Sigtronics Wire Color
MIC HI	<b>C</b>	<b>Brown</b>
MIC LO	<b>D</b>	<b>Black</b>
PTT HI	<b>E</b>	<b>White</b>
PTT LO	<b>F</b>	<b>White</b>

SEA		
• Sideband		
Function	8 Pin	Sigtronics Wire Color
PTT HI	<b>C</b>	<b>White</b>
MIC HI	<b>F</b>	<b>Brown</b>
MIC LO	<b>G</b>	<b>Black</b>
PTT LO	<b>G</b>	<b>White</b>

Tait		
• TM8110 • TM8115 • TM8235		• TM8250 • TM8254 • TM8255
• TM8260 • TM9135 • TM9155		
Function	8 Pin	Sigtronics Wire Color
PTT HI	<b>D</b>	<b>White</b>
MIC HI	<b>E</b>	<b>Brown</b>
MIC LO	<b>F</b>	<b>Black</b>
PTT LO	<b>F</b>	<b>White</b>

Tekk		
• MT-800		
Function	8 Pin	Sigtronics Wire Color
MIC LO	<b>B</b>	<b>Black</b>
PTT LO	<b>B</b>	<b>White</b>
MIC HI	<b>E</b>	<b>Brown</b>
PTT HI	<b>F</b>	<b>White</b>

Standard (Vertex / Yaesu)		
• GX4800		• GX5800
Function	8 Pin	Sigtronics Wire Color
MIC LO	<b>C</b>	<b>Black</b>
PTT LO	<b>C</b>	<b>White</b>
MIC HI	<b>D</b>	<b>Brown</b>
PTT HI	<b>E</b>	<b>White</b>

Vertex Standard		
• VX-2000 • VX-2100 • VX-2200 • VX-2500 • VX-3000		• VX-3200 • VX-4104 • VX-4107 • VX-4204 • VX-4207
• VX-4500 • VX-4600 • VX-7100 • VX-7200		
Function	8 Pin	Sigtronics Wire Color
MIC LO	<b>D</b>	<b>Black</b>
MIC HI	<b>E</b>	<b>Brown</b>
PTT HI	<b>F</b>	<b>White</b>
PTT LO	<b>D</b>	<b>White</b>

Yaesu		
• FT-2500M		
Function	8 Pin	Sigtronics Wire Color
PTT HI	<b>F</b>	<b>White</b>
MIC HI	<b>E</b>	<b>Brown</b>
PTT LO	<b>D</b>	<b>White</b>
MIC LO	<b>D</b>	<b>Black</b>

Yaesu		
• FTL-1011 • FTL-2011		• FTL-7011 • FTL-8011
Function	8 Pin	Sigtronics Wire Color
MIC LO	<b>D</b>	<b>Black</b>
MIC HI	<b>E</b>	<b>Brown</b>
PTT HI	<b>F</b>	<b>White</b>
PTT LO	<b>D</b>	<b>White</b>

*Specifications subject to change without notice.*

**Sigtronics Corporation**  
 178 East Arrow Highway  
 San Dimas, CA 91773  
 Phone: (909) 305-9399  
 E-mail: info@sigtronics.com  
 Web Site: www.sigtronics.com

