

### **PS Engineering Audio Panel Harness Form**

**On all PS Engineering audio panels, a wiring must be done by PS Engineering or a PS Engineering dealer (Aircraft Spruce) or the warranty is void on the unit.**

On the second page of this document is the wire harness worksheet that must be completed and faxed or emailed back to Aircraft Spruce. Upon the receipt of the worksheet, Aircraft Spruce will return with a quote for the entire amount of the harness plus any other additional hardware.

Please fax completed forms to 951-372-0555 and put your quote number and sales representative's name on the fax. If this information was not given to you at time of quote, put attention Ryan Deck – Avionics Sales Manager.

Please email your complete forms to sales represents. If this information was not given, please email [ryandeck@aircraftspruce.com](mailto:ryandeck@aircraftspruce.com) and give your quote number in the email.

### **Wire harnesses are not cancelable or returnable.**

Allow one week from your order of your harness to the time the harness is to be shipped.

The best technique to measure the needed cable lengths is to take a piece of string, and run it from the desired unit location to the desired jack location, next to, or through the aircraft structure along the planned cable route. Then measure that string to determine the wire run. Repeat for each individual run (pilot jacks, passenger jacks, music jacks etc.).

Enter the length in the "Length (feet)" column.

Specify the receivers to be included, such as Nav/Com, Com, ADF, DME, or Auxiliary (RX) in the special instructions section.

Ordering a harness with excessive wire lengths will increase the likelihood of Radio Frequency Interference (RFI). The only alternative to a too long a wire run is to cut it to length. However, this eliminates the work that had already been done in prepping the wires and will require special tools to re-prepare the wires for termination to the microphone and headphone jacks.

Please request if you want the microphone & headphone jack attached.

Power and ground wires will be the length you specify. The lengths should include the distance from the circuit breaker on the avionics bus (power) and the ground location (ground). **Specify the voltage of the aircraft dimmer (14 or 28V).**

## Aircraft Spruce - PS Engineering PMA 4000 Harness Form

Designation	Location	Length (feet)
E1	PMA4000 to Music Jack	
LP	PMA4000 to Pilot Jacks	
LC	PMA4000 to Copilot Jacks	
L1 (if more than 2-place)	PMA4000 to Passenger 1 Jacks	
H12 (if more than 2-place)	Passenger 1 Phones to Passenger 2 Phones	
M2 (if more than 2-place)	PMA4000 to Passenger 2 Mic	
RV (optional)	PMA4000 to remote Volume/Expansion unit	
NC1	PMA4000 to Nav/Com 1 Com 1 Phones & Microphone	
	Nav 1 (if present)	
NC2	PMA4000 to Nav/Com 2 Com 2 Phones & Microphone	
	Nav 2 (if present)	
US	PMA4000 to Unswitched Receiver #1	
US	PMA4000 to Unswitched Receiver #2	
US	PMA4000 to Unswitched Receiver #3	
US	PMA4000 to Unswitched Receiver #4	
PB	Optional IRS Playback (11941 only)	
SP	PMA4000 to Cockpit Speaker	
PG	Power and Ground	

Special Instructions:

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