



Completion of the Custom Wiring Harness Worksheet

The second page of this document is the wire harness worksheet that must be completed and FAXed or emailed back to PS Engineering, Inc. Upon the receipt of the worksheet, PS Engineering, Inc. will debit the credit card for the entire amount of the harness plus any other additional hardware or shipping charges that are indicated on the wire harness worksheet.

Wire Harnesses are not **cancelable** or **returnable**.

Allow five-business days from our receipt of your harness worksheet to the time the harness is 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. If any of the column boxes are empty, then PS Engineering will assume that wire connection is not required or needed.

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 mic and headphone jacks.

Passenger *headphone* jacks are "daisy-chained." That means that a single cable will connect the unit to the first set of passenger jacks (L1). From there, another wire will go to the next set of passenger (H12) jacks. All microphone connections are separate cables from the unit to the mic jacks. For 2-place harness, ignore L1, M2, H12 and C2.

We typically do not install intercom headphone jacks on the harness unless specifically requested by adding the quantity of jack **sets** (headphone *and* microphone). It is usually easier to feed the wires through the airplane without the jacks attached to the harness. However, if you elect to have us install jacks to your harness we will be glad to do so, at a cost of \$8.75 per jack set.

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) to the PM500EX.

The radio interface is accomplished at the "Auxiliary" Microphone and Headphone Jacks. See the Installation Manual for details as well as our Frequently Asked Questions (FAQ) on our website.

The additional jacks, which must be labeled "Auxiliary Mic; Auxiliary Headphone," serve several purposes. They allow a systematic method of installation. These jacks can be used as a troubleshooting tool as well as your only way to connect to your radios if you remove the intercom for any reason.

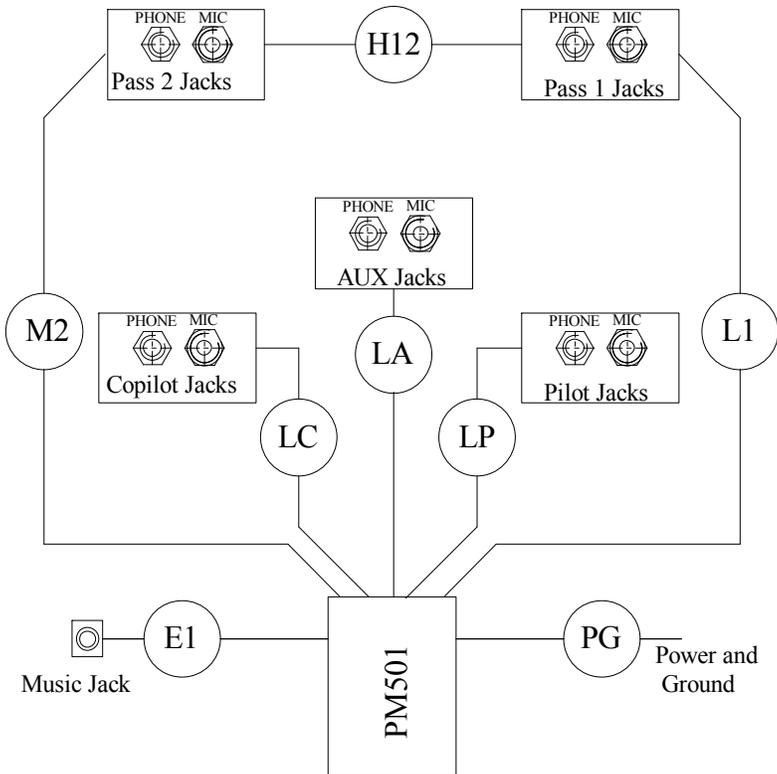
No phone orders are accepted. Complete the worksheet, print (to PDF) and return sheets to harnesses@ps-engineering.com.

PM500EX HARNESS ORDER SHEET

HARNESS IS NON CANCELLABLE AND NON RETURNABLE

NAME: _____ DATE: _____
 ADDRESS: _____ PHONE: _____
 _____ Ship Method: _____
 City: _____ State: _____
 Zip/Post Code: _____
 Visa/MC#: _____ Expiration: _____
 Aircraft Make & Model: _____

		Base Price:		
Designation	Location	Length (feet)	Price per foot	Subtotal (per foot x length)
LA	PM500EX to Aux Jacks (Radio Input)			
E1	PM500EX to Music Jack			
LP	PM500EX to Pilot Mic and Headphone Jacks			
LC	PM500EX to Copilot Mic and Headphone Jacks			
L1	PM500EX to Passenger 1 Mic Jacks			
L2	PM500EX to Passenger 2 Mic Jacks			
M2	Copilot headphone to pass 2 headphone			
H12	Pass 1 headphone to pass 2 headphone			
PG	Power and Ground			
	Install jacks	# of jacks		
			Total:	



**Harness Part Number
14003 (4-place)**

Notes:
 For 2-place harness, ignore L1, M2, H12 and C2.
 Each harness is professionally manufactured using Mil-Spec, Tefzel® shielded cable, and is clearly marked for easy identification using heat shrink labeling.
 Turn-around time is 5-business days from receipt of completed worksheet, or shipping is free.

Special Instructions: