

SECTION 4: INSTALLATION REFERENCE 67

APPENDIX C: DPU P2 Connector Harness Fabrication

- Step 1. Determine required lengths for each thermocouple extension cable and cut it to this dimension (plus a little extra).
- Step 2. Carefully remove 1 ¼" of outer insulation.
- Step 3. Remove 1/8" of the wire insulation on both leads.
- Step 4. Apply NOKORODE™ Flux to these leads, otherwise the solder will not bond to the wire properly. (NOTE: Read caution statements and directions on container before use).
- Step 5. Crimp pin onto wire. See APPENDIX H: Recommended Tools.
- Step 6. Carefully solder the area of the crimp and wire.
- Step 7. Repeat Step 1 through Step 6 until all wires are done.
- Step 8. Thoroughly wash all contacts and crimping tool with water to remove all flux residues and let dry.
- Step 9. Select a grommet that TIGHTLY fits the bundle of cables you are installing.
- Step 10. Feed the pins through the larger diameter of the grommet. Insert the pins into the connector according to TABLE 2: DPU Harness P2 Connector Wiring. Make sure pin properly locks in place (it should click when inserted). Test this by trying to gently pull it back out.
- Step 11. Place half of the backshell onto the connector. Position the grommet into the backshell so that the larger outside diameter is located in the back groove. Caution: make sure no wires are stretched tight at the pins. There should be a slight amount of slack otherwise the wires may separate from the pins.
- Step 12. Add the second half of backshell. Be sure to insert the retaining screws and clips then tighten down the 2 screws and nuts to secure the backshell.

The other ends of the cable wires are now ready for attachment to the transducer connectors. NOTE: You may need to install and route the harness in the aircraft before doing this next procedure. Install the connectors according to the guidelines contained in 'APPENDIX A: Transducer Connector Wiring Techniques'.

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TABLE 2: DPU Harness P2 Connector Wiring

Pin	Cable Connection	Device Conn.	Function
1	WHT: CHT 1 Cable	WHT: CHT 1	CHT 1
2	RED: CHT 1 Cable	RED: CHT 1	
3	WHT: CHT 2 Cable	WHT: CHT 2	CHT 2
4	RED: CHT 2 Cable	RED: CHT 2	
5	WHT: CHT 3 Cable	WHT: CHT 3	CHT 3
6	RED: CHT 3 Cable	RED: CHT 3	
7	WHT: CHT 4 Cable	WHT: CHT 4	CHT 4
8	RED: CHT 4 Cable	RED: CHT 4	
9	WHT: CHT 5 Cable	WHT: CHT 5	CHT 5
10	RED: CHT 5 Cable	RED: CHT 5	
11	WHT: CHT 6 Cable	WHT: CHT 6	CHT 6
12	RED: CHT 6 Cable	RED: CHT 6	
13	No Connection		
14	YEL: EGT 1 Cable	YEL: EGT 1	EGT 1
15	RED: EGT 1 Cable	RED: EGT 1	
16	YEL: EGT 2 Cable	YEL: EGT 2	EGT 2
17	RED: EGT 2 Cable	RED: EGT 2	
18	YEL: EGT 3 Cable	YEL: EGT 3	EGT 3
19	RED: EGT 3 Cable	RED: EGT 3	
20	YEL: EGT 4 Cable	YEL: EGT 4	EGT 4
21	RED: EGT 4 Cable	RED: EGT 4	
22	YEL: EGT 5 Cable	YEL: EGT 5	EGT 5
23	RED: EGT 5 Cable	RED: EGT 5	
24	YEL: EGT 6 Cable	YEL: EGT 6	EGT 6
25	RED: EGT 6 Cable	RED: EGT 6	

NOTES:

- Any position not used should be jumpered.
For example, if CHT 5 were not installed, then a jumper wire must be installed between pins 9 and 10.