



G13000RL Digital Audio Router – Low Impedance P139-HD Installation and Operation Manual Supplement

This supplement contains installation and operation information that is unique to the G13000RL Digital Audio Router. Installation and operation information common to the G13000 unit can be found in the P139-HD Installation Manual and the P139-HD Digital Audio System User Manual.

Prepared By:	Checked By:	Approved By:
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Section 1.0 Description

1.1 Product Description

The G13000RL Digital Audio Router is identical to the G13000 with the following exceptions:

- a) The G13000RL has a physically reduced mechanical outline with two mounting orientations, wide and narrow for added flexibility.
- b) The G13000RL has reduced the number of available Headset output and Radios.
- c) The G13000RL has an integrated 25W speaker amplifier.
- d) The G13000RL is intended to interface with low impedance (5Ω/8Ω) Headsets.

1.2 Product Approval/Certification

The G13000RL currently has no STC or TSO certification.



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Section 2.0 Installation

2.1 Accessories Required but Not Supplied

Installation kits G13000M15-IKC (x1) and G13000M50-IKC (x2) are required to complete the installation. These kits consist of the following:

G13000M15-IKC

Qty	Description	Manufacturer	Mfr Part #	AEM Part #
1	D-Sub Socket Crimp 15P	MIL Spec	M24308/2-2F	120-21-008
1	Backshell DB15	Conec	165X11619XE	120-28-015
1	D-Sub Cable Clamp 3-12mm	Conec	160X11189XE	120-30-015

G13000M50-IKC

Qty	Description	Manufacturer	Mfr Part #	AEM Part #
1	D-Sub Plug Crimp 50P	MIL Spec	M24308/4-5F	120-11-005
1	D-Sub Socket Crimp 50P	MIL Spec	M24308/2-5F	20-21-M50
2	Backshell DB50	Conec	165X11649XE	120-28-011
2	D-Sub Cable Clamp 5-14mm	Conec	160X11199XE	120-30-004

For installation information and drawings, see the P139-HD Installation Manual. The drawings specific to the G13000RL are listed below and can be found at the end of this supplement.

2.2 Installation Drawings

DOCUMENT Part No.	REV.	DESCRIPTION	TYPE	SERIAL NO.
G13000RL-403-0	1.01	Router	Interconnect	122196 and up
G13000RL-405-0	1.00	Router	Connector Map	122196 and up
G13000RL-922-0	1.00	Audio Router	Mechanical Installation	122196 and up



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Section 3.0 Operation

For operation information, see the P139-HD Digital Audio System User Manual with the following exceptions/additions:

- a) Operational references to G13000 can also include G13000RL.
- b) Reference the G13000RL-403-0 for available headsets.
- c) Low Impedance Headset specifications for the microphone and earphone are as follows:

Parameter	Value	Unit	Conditions
Microphone: Differential Input			
Microphone Input	250	μ Vrms	MIC GAIN set to 4.5 (recommended) ICS SIDETONE set to -3 (recommended)
Impedance	5	Ω	
Mic Bias	N/A	N/A	
Earphone: Single Ended Output			
Earphone Output	0.775	Vrms	EAR GAIN set to 14 (recommended)
Earphone Impedance	8	Ω	

- d) In the configuration web page - Headset Audio Settings, ensure that Headset Impedance selection is set to 150 Ω .
- e) For operation in EMER mode, the G13000RL requires a dedicated 28 Vdc power source (EMER +28V IN 1 and EMER +28V IN 2) connected to the same bus as the associated emergency COM (COM1 for PLT, COM2 for CPLT).

3.1 General

3.1.1 Speaker Output

The G13000R 25W Speaker Output replaces the existing TX4 HI/LO output from XCVR4 on the PILOT radio stack (Connector J1 pins 13, 14).

The speaker output requires definition for operation in the router configuration.



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3.1.2 Troubleshooting

Problem	Solution(s)
No Output on Speaker	<ul style="list-style-type: none">• Confirm G13000RL and P139-HD system is powered on and otherwise functioning normally• Ensure correct harness wiring between the speaker and J1 pins 13 & 14• Check that the signed system configuration sheet lists included outputs to the speaker• Contact AEM Technical Support to confirm that the memory card configuration includes the outputs to the speaker
Low Output on Speaker	<ul style="list-style-type: none">• Ensure that the resultant effective impedance is 8 Ohms connected to the Speaker Output, verify proper series and/or series parallel speaker wiring• Verify sufficient wire gauge is used in the installation

Supplement Ends After Attached Documents

G13000RL INSTALLATION NOTES:

REVIEWS		DATE	BY
REV	DESCRIPTION		
1.01	ECO1256 - SHEET 8: G13000RL J3 PINS 35/36 CORRECTED	13-JAN-2026	AJV


NOTES:

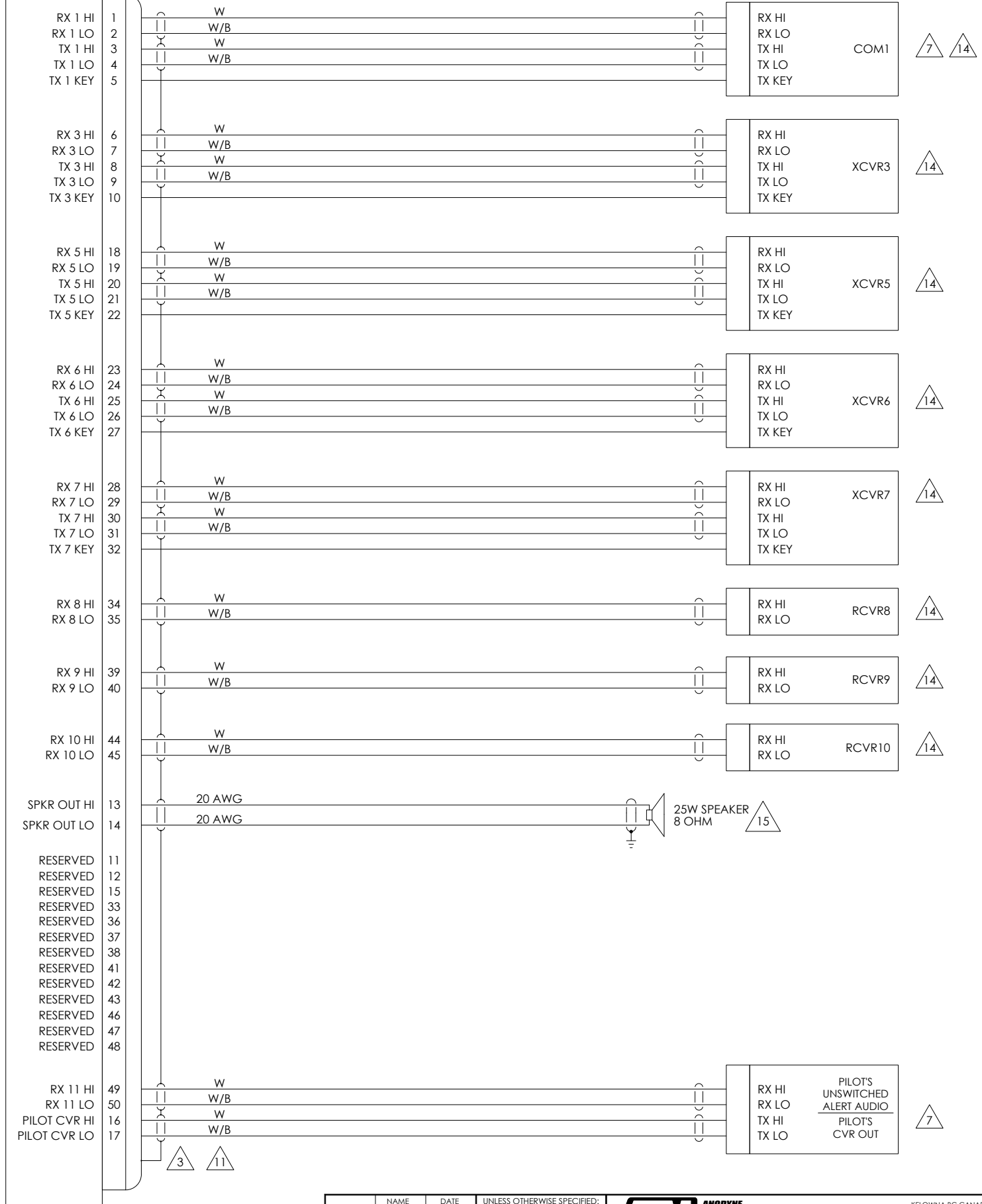
1. UNLESS OTHERWISE NOTED: ALL WIRES ARE 22 AWG; ALL SHIELDED WIRE IS MIL-DTL-27500; ALL UNSHIELDED WIRE IS MIL-W-22759/16.
2. ALL GROUNDING AND BONDING WILL BE I/A/W AC 43.13-1B, CHAPTER 1, SECTION 15.
3. GROUND THE SHIELD RETURN TO THE METAL CONNECTOR BACKSHELL IF USED, OR OTHERWISE TO THE METAL CONNECTOR HOUSING.
4. SPARE KEY LINE FUNCTION AND CONNECTIONS ARE INSTALLER DEFINED AND DEPEND ON THE SPECIFIC SYSTEM CONFIGURATION.
5. D50M CONNECTOR ASSEMBLY CONSISTS OF: CONNECTOR M24308/4-5F; CONEC BACKSELL 165X11649XE; 2EA. CINCH SCREWLOCKS D20420-42. ALTERNATE BACKSHELL: CONEC 165X10179X OR CINCH BACKSHELL DD-24661-34.
6. D50F CONNECTOR ASSEMBLY CONSISTS OF: CONNECTOR M24308/2-5F; CONEC BACKSELL 165X11649XE; 2EA. CINCH SCREWLOCKS D20420-42. ALTERNATE BACKSHELL: CONEC 165X10179X OR CINCH BACKSHELL DD-24661-34.
7. WHEN COM1DIR (P5, PIN 10) IS NOT GROUNDED, THE PILOT HEADSET IS IN EMERGENCY MODE AND THE FOLLOWING LINES ARE DIVERTED:
 - HEADSET 1 CONNECTS THRU AN INTERNAL AMPLIFIER TO RX1, RX11 (UNSWITCHED ALERT TONES) AND THE EMERGENCY INTERCOM.
 - MIC 1 CONNECTS DIRECTLY TO TX 1 AND THE EMERGENCY INTERCOM.
 - XMIT KEY 1 AND PLT COM1 KEY CONNECT TO TX KEY 1.
 - ICS KEY 1 KEYS THE EMERGENCY INTERCOM, IF AT LEAST ONE POWER INPUT CIRCUIT BREAKER TO THE G13000RL AUDIO ROUTER HAS POWER.
 - TX11 (CVR) TRANSMITS HEADSET1, MIC1 AND EMERGENCY INTERCOM IF AT LEAST ONE POWER INPUT CIRCUIT BREAKER TO THE G13000RL AUDIO ROUTER HAS POWER.
8. WHEN COM2DIR (P5, PIN 11) IS NOT GROUNDED, THE COPILOT HEADSET IS IN EMERGENCY MODE AND THE FOLLOWING LINES ARE DIVERTED:
 - HEADSET 2 CONNECTS DIRECTLY TO RX2, RX20 (UNSWITCHED ALERT TONES) AND THE EMERGENCY INTERCOM.
 - MIC 2 CONNECTS DIRECTLY TO TX 2, AND THE EMERGENCY INTERCOM.
 - XMIT KEY 2 AND CPLT COM2 KEY CONNECT TO TX KEY 2.
 - ICS KEY 2 KEYS THE EMERGENCY INTERCOM, IF AT LEAST ONE POWER INPUT CIRCUIT BREAKER TO THE G13000RL AUDIO ROUTER HAS POWER.
 - TX20 (CVR) TRANSMITS HEADSET2, MIC2 AND EMERGENCY INTERCOM IF AT LEAST ONE POWER INPUT CIRCUIT BREAKER TO THE G13000RL AUDIO ROUTER HAS POWER.
9. D9M CONNECTOR PREFERRED ASSEMBLY CONSISTS OF: CONNECTOR M24308/2-2F; CONEC BACKSELL 165X11619XE; 2EA. CINCH SCREWLOCKS D20419-46. ALTERNATE BACKSHELL: CONEC P/N: 165X10149X OR CINCH BACKSHELL DA-24658-31. SPLICES ON 20 AWG WIRE SHALL ALSO BE 20 AWG, LENGTH 3 INCHES MAXIMUM. ALTERNATE ASSEMBLY CONSISTS OF: KOBICONN SOLDER-CUP CONNECTOR 156-1315T-E AND CINCH BACKSHELL DA-24658-31; 2EA. CINCH SCREWLOCKS D20419-46. ALTERNATE BACKSHELL: CONEC P/N: 165X10149X. CONDUCTORS SHOWN WITH SPLICES MAY BE IMPLEMENTED BY SOLDERING THE SUPPLY WIRE TO BOTH PINS AFTER SOLDERING AND INSULATING THE ADJACENT CONNECTIONS.

9. D9M CONNECTOR ASSEMBLY CONSISTS OF: CONNECTOR M24308/4-1F; CONEC BACKSHELL 165X11609XE; 2EA. CINCH SCREWLOCKS D20419-46. ALTERNATE BACKSHELL: CONEC 165X10139X OR CINCH BACKSHELL DE-24657-30.
10. THE COM1DIR PIN MUST BE WIRED TO AN APPROPRIATE SWITCH TO CONTROL EMERGENCY MODE FOR THE PILOT HEADSET. EMERGENCY MODE IS MANDATORY WHEN THE G13000RL AUDIO ROUTER IS USED AS THE PRIMARY AUDIO SYSTEM. SEE NOTES ON SHEET 8.
11. SHIELDING: FOR SHIELDED WIRE, THE SHIELD MUST BE CONNECTED TO AIRFRAME GROUND OR CONNECTOR GROUND AS FOLLOWS:
 - FOR WIRE CARRYING AUDIO SIGNALS, THE SHIELD MUST BE GROUNDED AT ONE END ONLY. GROUNDED BOTH ENDS MAY LEAD TO AUDIO NOISE.
 - AUDIO SHIELD GROUND CONNECTIONS SHOULD BE MADE AT THE G13000RL CONNECTORS BUT MAY BE MADE AT THE OTHER END AT THE INSTALLERS DISCRETION.
 - FOR ALL OTHER SHIELDED WIRE, E.G. GNET AND POWER, THE SHIELD MUST BE GROUNDED AT BOTH ENDS.
12. BUS CONNECTIONS: BREAKERS SHOULD BE CONNECTED TO TWO SEPARATE BUSES FOR REDUNDANCY. CONSULT INSTALLATION INSTRUCTIONS TO DETERMINE APPROPRIATE BUS ASSIGNMENTS.
13. HEADSET LO IS NOT A POWER GROUND AND MUST NOT BE USED AS A GROUND FOR POWERED DEVICES. MIC LO IS NOT A POWER GROUND AND MUST NOT BE GROUNDED.
14. RADIO PORTS ARE DIFFERENTIAL INPUTS AND OUTPUTS. RX LO AND TX LO MUST BE GROUNDED IF THE CONNECTED DEVICE IS SINGLE-ENDED.
15. EQUIVALENT SERIES PARALLEL SPEAKERS MAY BE USED.
16. BLUETOOTH AUDIO CONNECTIONS ONLY PRESENT ON BLUETOOTH ENABLED CONTROL HEADS. RECOMMEND ONLY ONE BLUETOOTH ENABLED CONTROL HEAD PER SYSTEM.
17. THE BLUETOOTH TRANSCEIVER LOCATED WITHIN THE G1311XR CONTROL HEAD MAY BE ROUTED TO ANY AVAILABLE RADIO PORT ON THE AUDIO ROUTER. ACTIVATION AND ROUTING OF THE BLUETOOTH AUDIO IS CONTROLLED BY THE CONFIGURATION INSTALLED WITHIN THE AUDIO ROUTER.
18. BREAKERS SHOULD BE CONNECTED TO THE SAME BUS AS ASSOCIATED EMERGENCY COM (COM1 OR COM 2) PER NOTE 11.

DEFINITIONS:

- N/C: NO CONNECTION. THE PIN IS NOT CONNECTED TO ANYTHING INTERNALLY, AND THEREFORE SHALL HAVE NO CONNECTION EXTERNALLY.
- N/C SPARE: NO CONNECTION INTERNALLY, BUT A SPARE WIRE SHALL BE INSTALLED IN THE WIRE HARNESS.
- RESERVED: MAY BE CONNECTED AND USED IN THE FUTURE. THE CIRCUITRY MAY BE PRESENT OR ADDED TO ACTIVATE THE FUNCTION. THE PIN MAY BE USED FOR TEST PURPOSES. THERE IS NO EXTERNAL CONNECTION.
- RESERVED, SPARE: RESERVED, BUT INSTRUCTIONS SHALL BE FOLLOWED TO ACTIVATE THE CIRCUITRY. A SPARE WIRE SHALL BE INSTALLED IN THE WIRE HARNESS.

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APPROVED			ANGULAR _____ ±0.5°		
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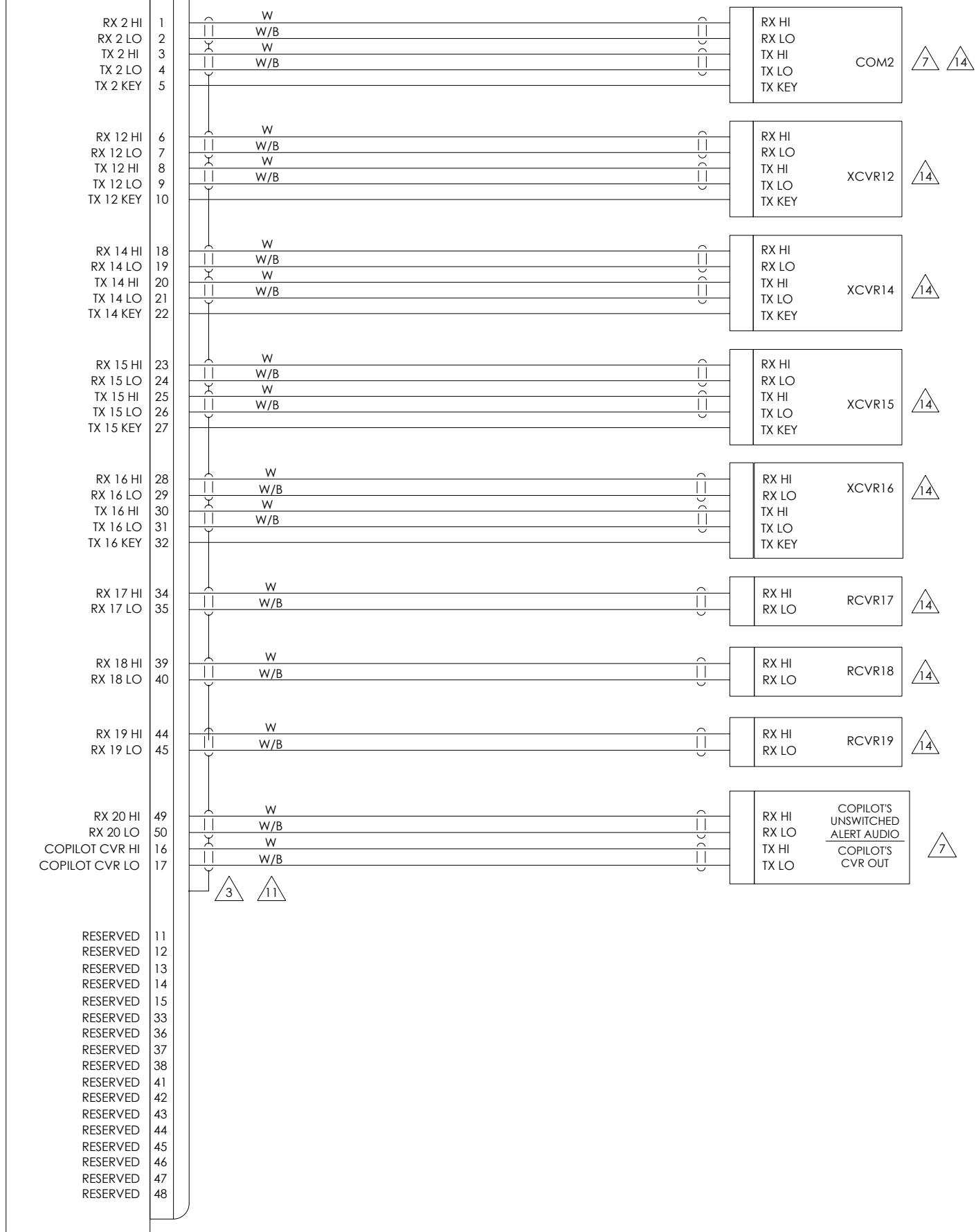
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J2

P2
50 PIN FEMALE DSUB
MATING CONNECTOR



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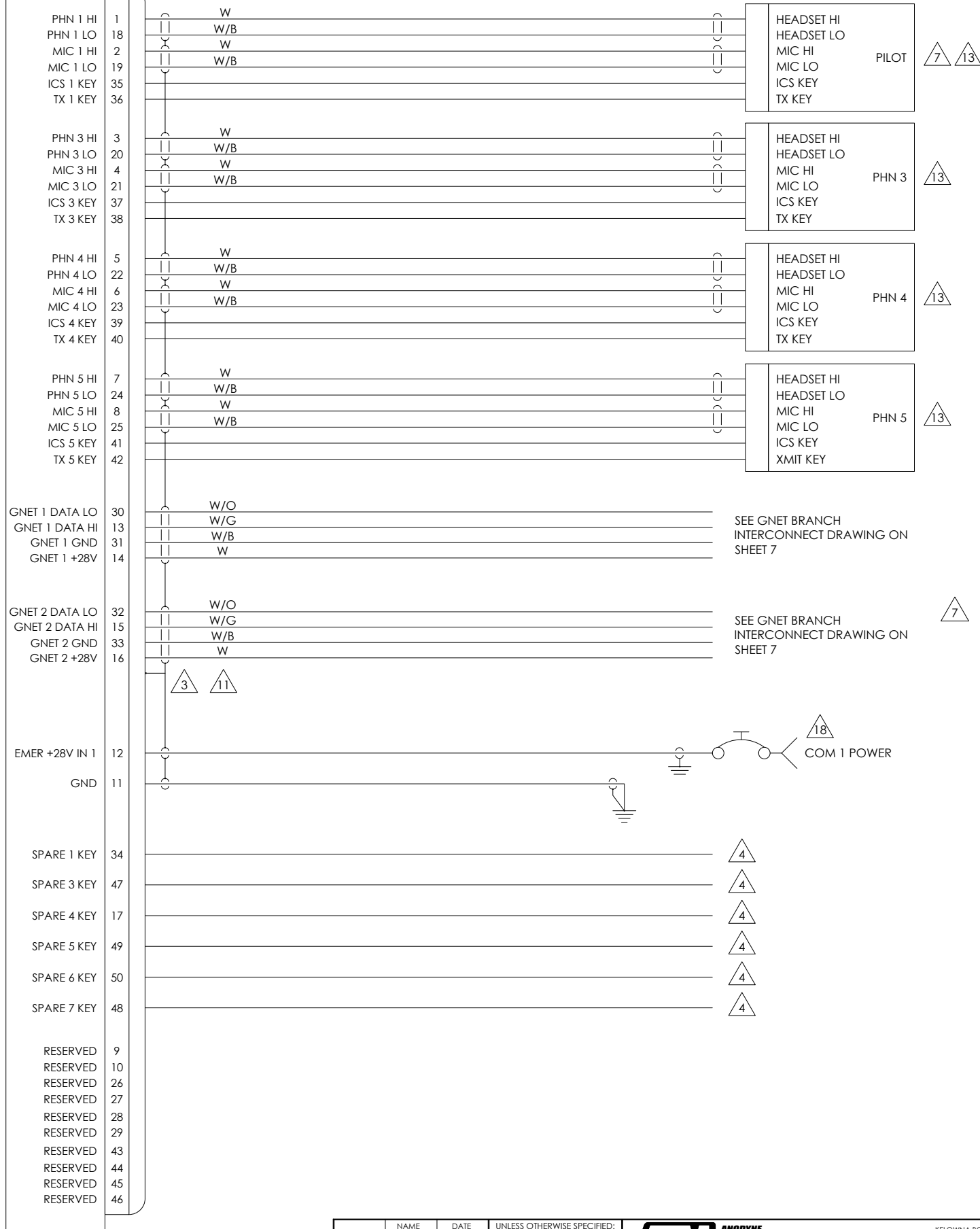
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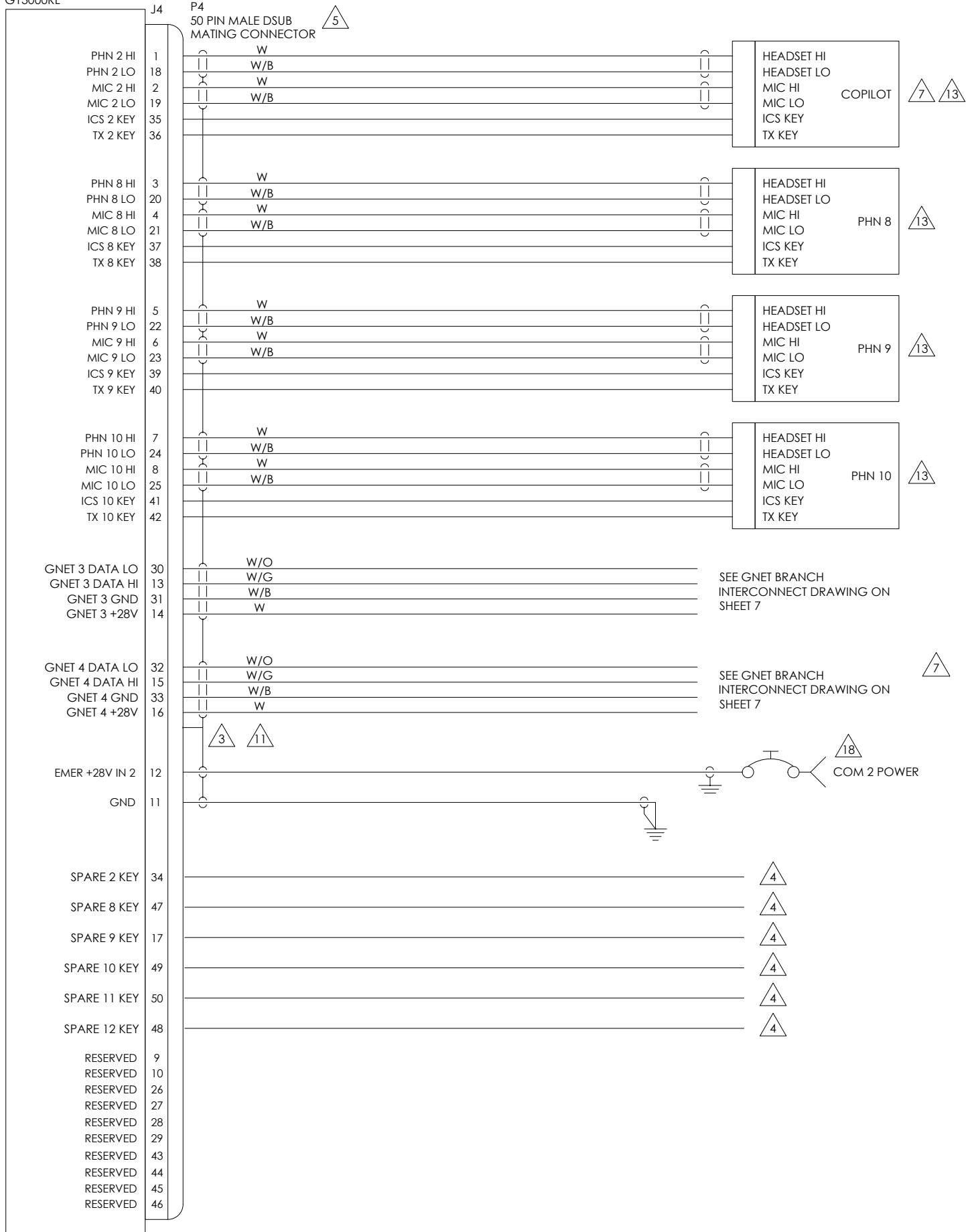
G13000RL

J3

P3
50 PIN MALE DSUB
MATING CONNECTOR

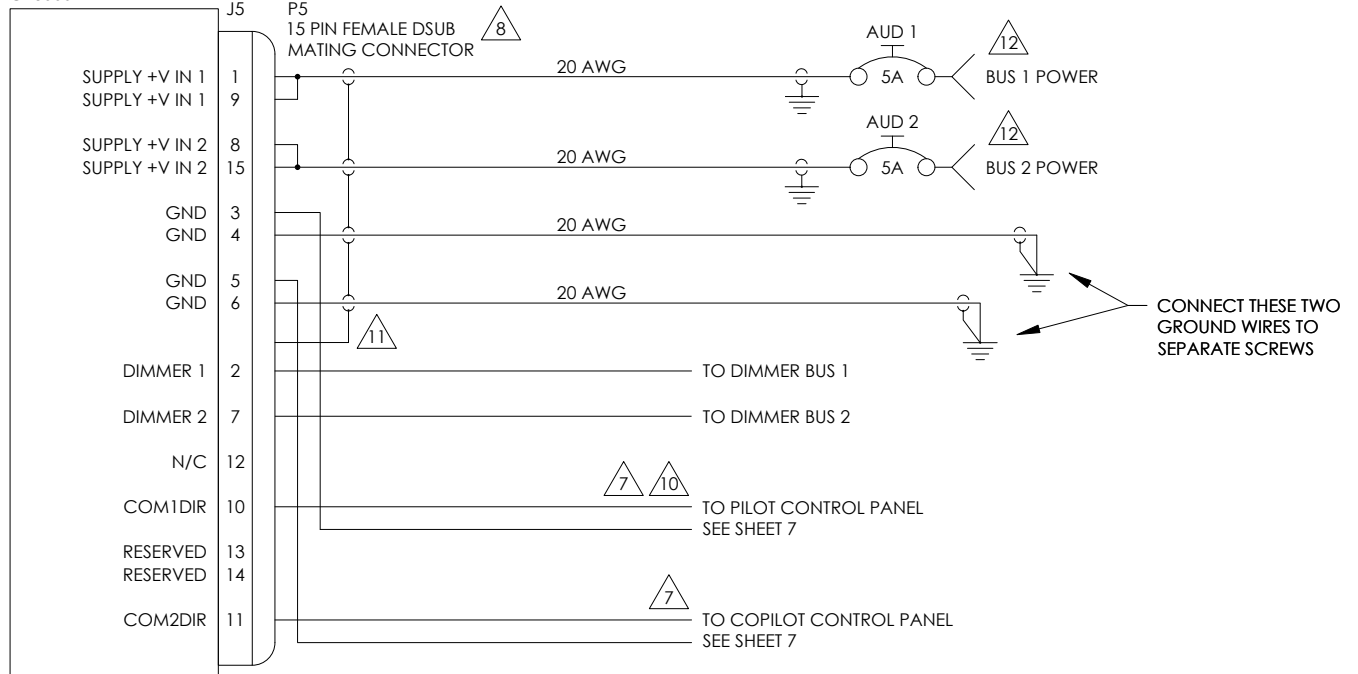



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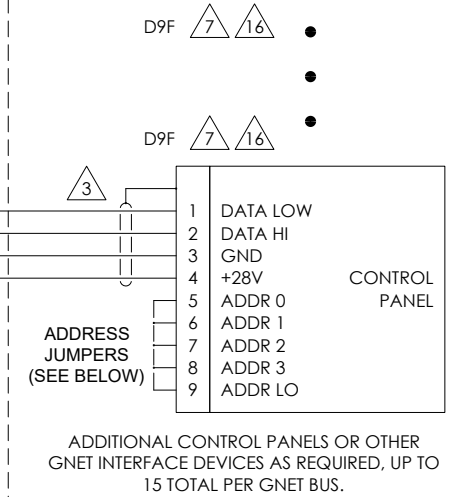
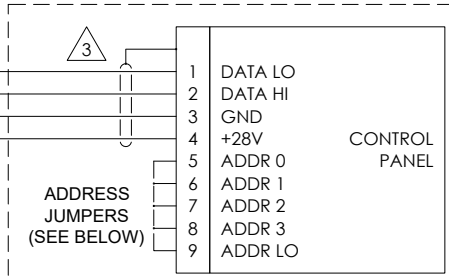
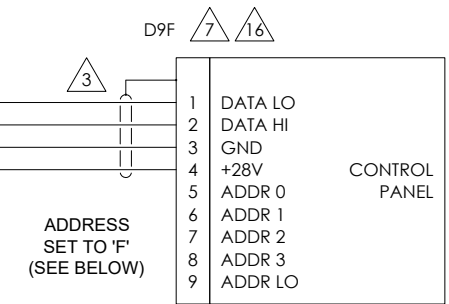
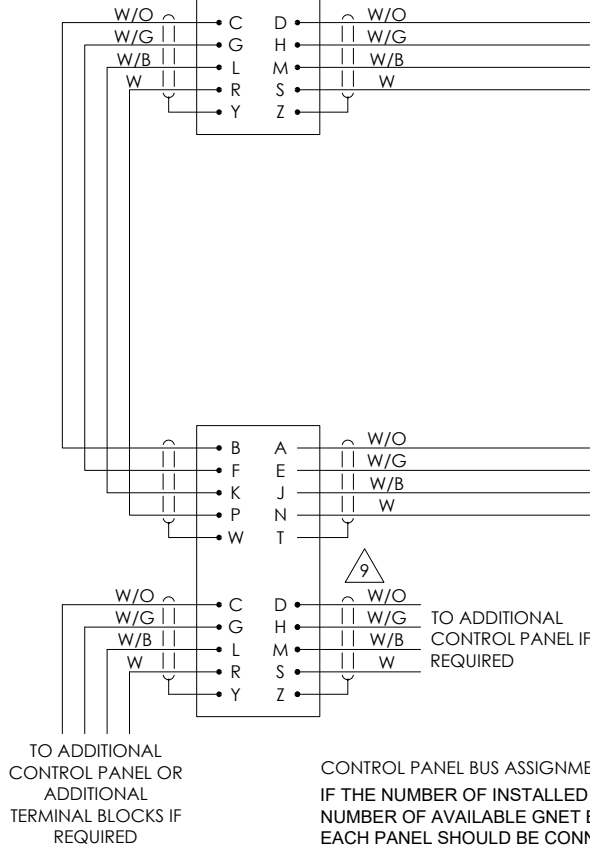
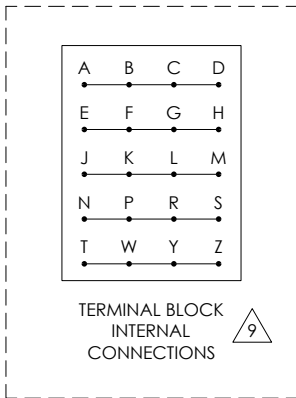
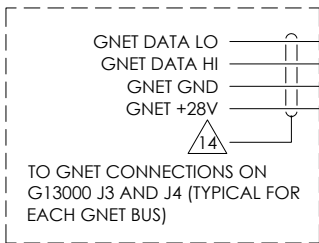
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G13000RL



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TITLE: **ROUTER INTERCONNECT**



CONTROL PANEL BUS ASSIGNMENT:
 IF THE NUMBER OF INSTALLED CONTROL PANELS IS EQUAL TO OR LESS THAN THE NUMBER OF AVAILABLE GNET BUSES (4 FOR DUAL-BOARD, 2 FOR SINGLE-BOARD) THEN EACH PANEL SHOULD BE CONNECTED TO A SEPARATE GNET BUS AND TERMINAL BLOCKS ARE NOT REQUIRED.

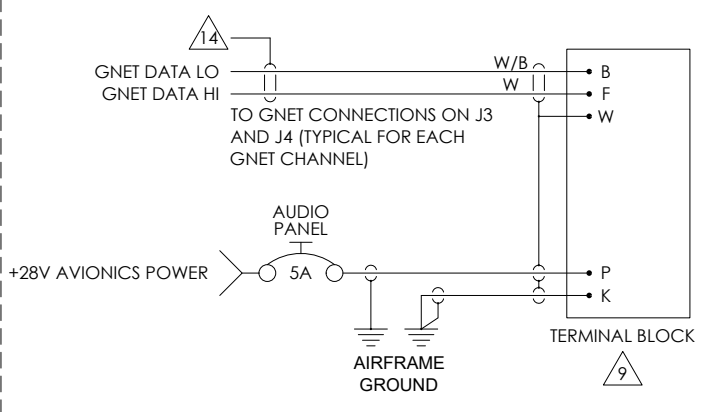
THE PILOT'S PRIMARY CONTROL PANEL SHOULD BE THE FIRST DEVICE ON GNET BUS 1. THE COPILOT'S PRIMARY CONTROL PANEL SHOULD BE THE FIRST DEVICE ON GNET 3 IN A DUAL-BOARD SYSTEM AND THE FIRST DEVICE ON GNET 2 ON A SINGLE-BOARD SYSTEM.

ADDITIONAL CONTROL PANELS SHOULD BE EVENLY DISTRIBUTED AMONG AVAILABLE GNET BUSES.

GNET ADDRESS JUMPERS:
 FOR EVERY CONTROL PANEL OR OTHER PERIPHERAL DEVICE CONNECTED TO A PARTICULAR GNET BUS, A UNIQUE DEVICE ADDRESS FROM "1" TO "9" OR "A" TO "F" MUST BE WIRED INTO THE CONNECTOR. THE ADDRESS FOR EACH DEVICE ON EACH GNET BUS IS DEFINED IN THE SYSTEM CONFIGURATION SOFTWARE FOR THE SPECIFIC INSTALLATION.
 USING 24 AWG WIRE 1.5" LONG FOR EACH JUMPER, CONNECT THE FOLLOWING PINS TOGETHER FOR GNET ADDRESSING FOR EACH CONNECTOR, AS SPECIFIED IN THE SYSTEM CONFIGURATION REQUIREMENTS. MAKE NO CONNECTIONS TO UNLISTED PINS.
 THE FIRST CONTROL PANEL ON ANY GIVEN GNET BUS SHOULD BE SET AS ADDRESS "F" WITH NO JUMPERS. ADDITIONAL PANELS ON THE SAME BUS SHOULD BE GIVEN ADDRESSES IN DESCENDING ORDER: "E", "D", "C" ETC.

"1" = 6-7-8-9	"5" = 6-8-9	"9" = 6-7-9	"D" = 6-9
"2" = 5-7-8-9	"6" = 5-8-9	"A" = 5-7-9	"E" = 5-9
"3" = 7-8-9	"7" = 8-9	"B" = 7-9	"F" = NONE
"4" = 5-6-8-9	"8" = 5-6-7-9	"C" = 5-6-9	

GNET EXTERNAL POWER:
 IF THE AUDIO SYSTEM HAS MORE THAN 6 CONTROL PANELS AN EXTERNAL POWER SOURCE FOR THE ADDITIONAL PANELS MUST BE PROVIDED. UP TO 12 ADDITIONAL CONTROL PANELS MAY BE POWERED FROM EACH EXTERNAL 5A BREAKER. CONTROL PANELS POWERED BY AN EXTERNAL BREAKER SHOULD NOT BE CONNECTED TO ROUTER GNET POWER.

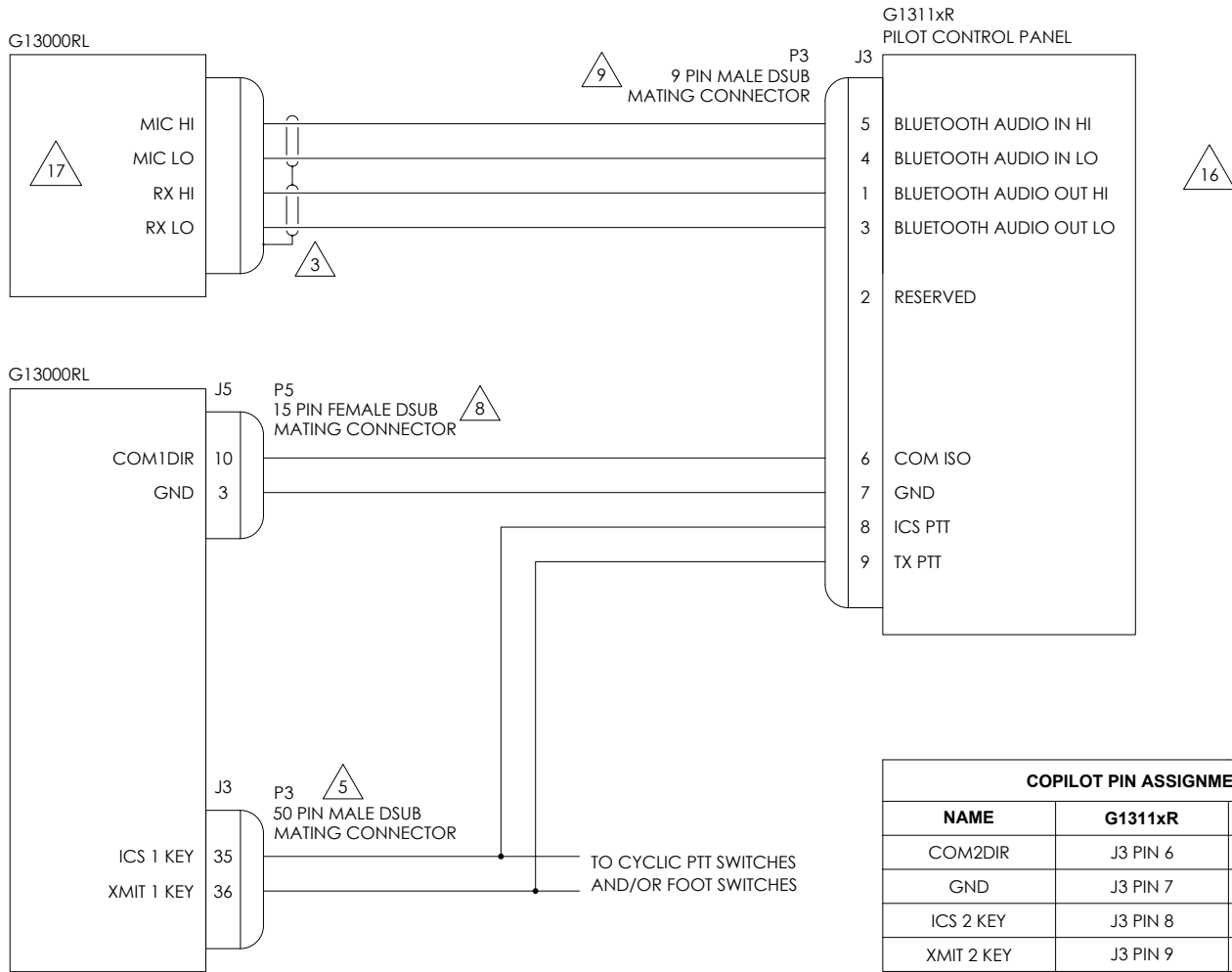


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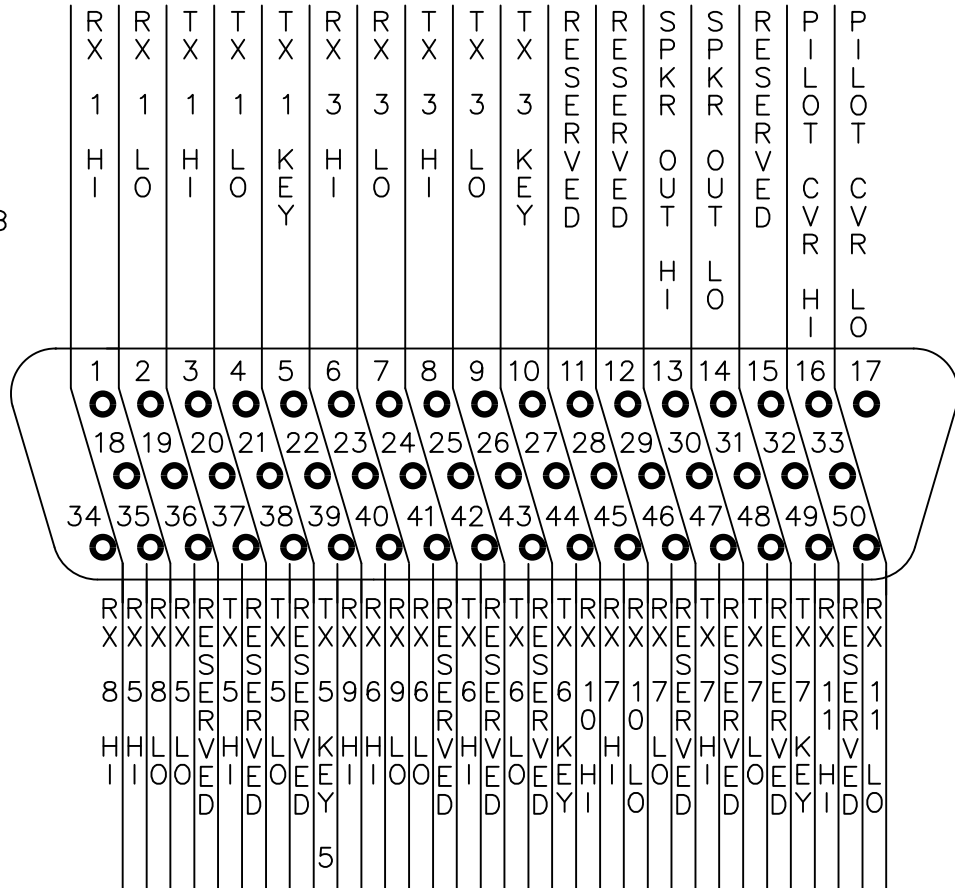


COPILOT PIN ASSIGNMENT		
NAME	G1311xR	G13000R
COM2DIR	J3 PIN 6	J5 PIN 11
GND	J3 PIN 7	J5 PIN 5
ICS 2 KEY	J3 PIN 8	J4 PIN 35
XMIT 2 KEY	J3 PIN 9	J4 PIN 36




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APPROVED		ANGULAR: ±0.5°	MATERIAL: N/A		
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P1

50 PIN FEMALE DSUB
MATING CONNECTOR

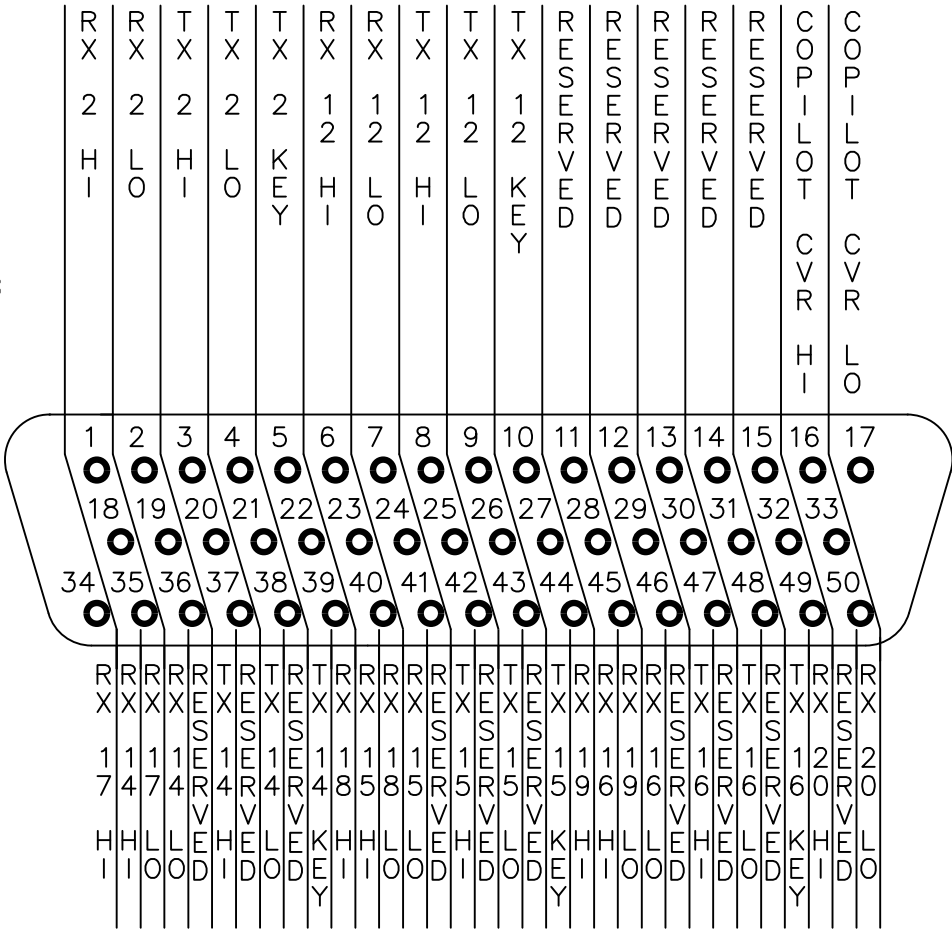


VIEW IS FROM REAR OF AIRFRAME CONNECTOR

NAME		DATE		UNLESS OTHERWISE SPECIFIED:				KELOWNA BC CANADA (250)-763-1088 WWW.AEM-CORP.COM	
DRAWN		AMP		01-OCT-2025					
CHECKED				31-Oct-2025		TOLERANCES:		TITLE: ROUTER CONNECTOR MAP	
APPROVED				24-Nov-2025		FRACTIONAL _____ ±0.0625"			
						ANGULAR _____ ±0.5°			
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.				MATERIAL:		NA		PAPER SIZE: CAGE CODE PART No.:	
				FINISH:		NA		A L9015 G13000RL	
						-		SCALE: 1:1 DO NOT SCALE DRAWING DRAWING No.: 405-0	
								REVISION 1.00	
								SHEET: 1 of 5	

P2

50 PIN FEMALE DSUB
MATING CONNECTOR

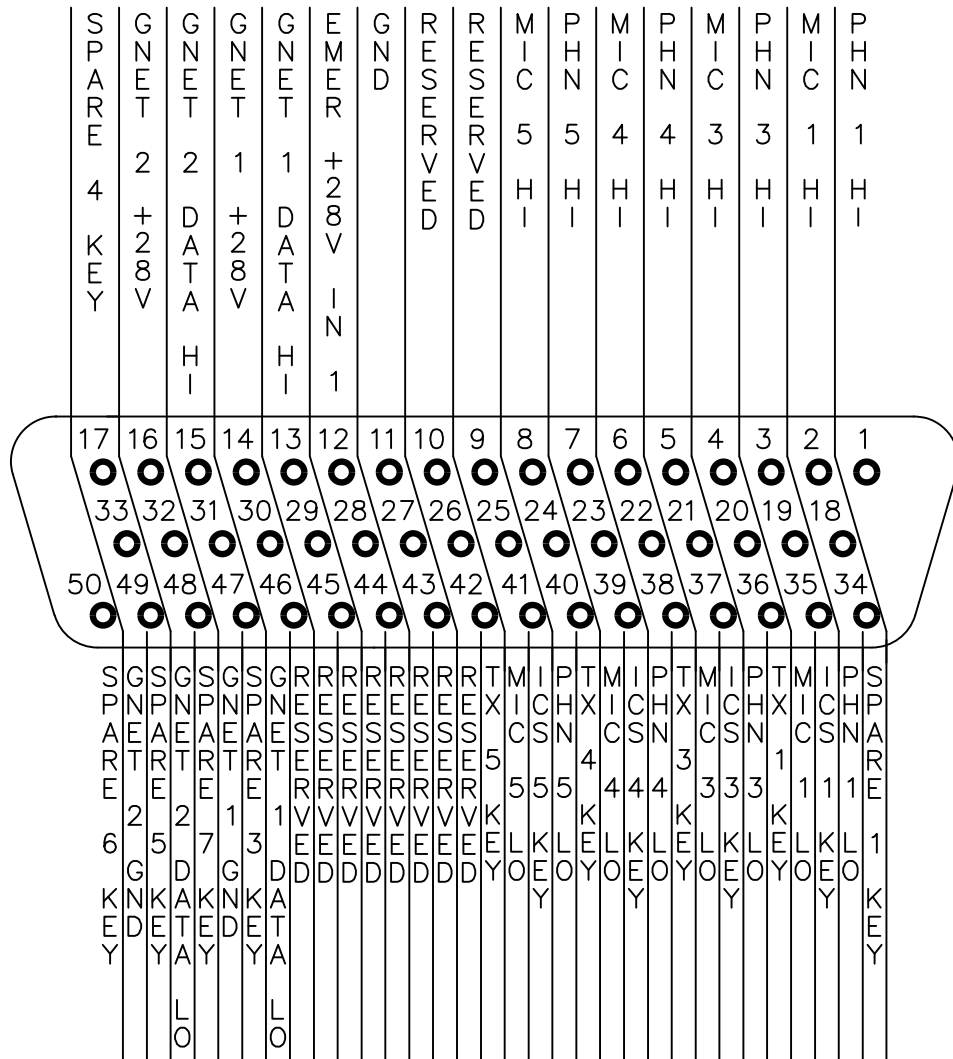


VIEW IS FROM REAR OF AIRFRAME CONNECTOR




NAME		DATE		UNLESS OTHERWISE SPECIFIED:				KELOWNA BC CANADA (250)-763-1088 WWW.AEM-CORP.COM	
DRAWN		AMP		01-OCT-2025					
CHECKED		[Signature]		31-Oct-2025		TOLERANCES:		TITLE: ROUTER CONNECTOR MAP	
APPROVED		[Signature]		24-Nov-2025		FRACTIONAL _____ ±0.0625"			
						ANGULAR _____ ±0.5°			
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.				MATERIAL:		NA		PAPER SIZE: A	
				FINISH:		NA		CAGE CODE L9015	
						-		PART No.: G13000RL	
								REVISION 1.00	
								SCALE: 1:1	
								DO NOT SCALE DRAWING	
								DRAWING No.: 405-0	
								SHEET: 2 of 5	

P3

50 PIN MALE DSUB
MATING CONNECTOR

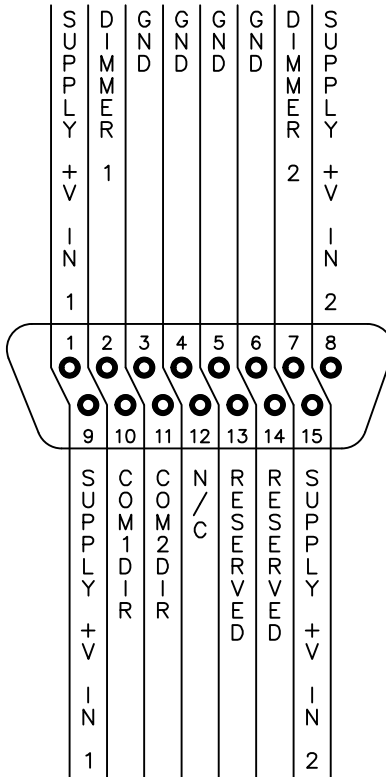


VIEW IS FROM REAR OF AIRFRAME CONNECTOR




NAME		DATE		UNLESS OTHERWISE SPECIFIED:		 ANODYNE ELECTRONICS MANUFACTURING CORP.		KELOWNA BC CANADA (250)-763-1088 WWW.AEM-CORP.COM					
DRAWN	AMP	01-OCT-2025		DIMENSIONS ARE IN INCHES [MM]									
CHECKED		31-Oct-2025		TOLERANCES:		TITLE: ROUTER CONNECTOR MAP							
APPROVED		24-Nov-2025		FRACTIONAL _____ ±0.0625"									
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.				MATERIAL:						PAPER SIZE:		CAGE CODE	
				FINISH:		A		L9015		G13000RL		1.00	
				NA		SCALE: 1:1		DO NOT SCALE DRAWING		DRAWING No.: 405-0		SHEET: 3 of 5	

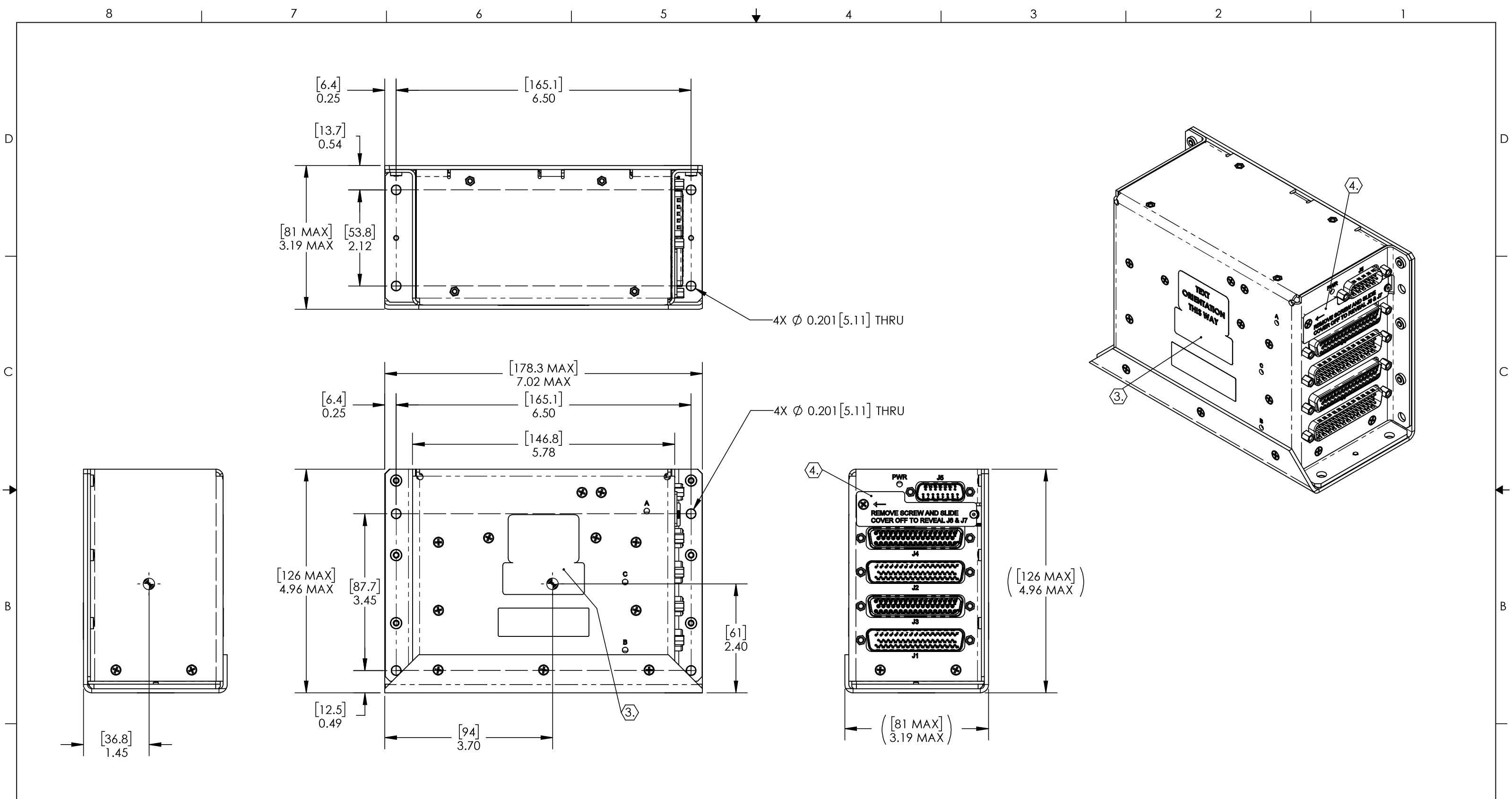
P5

15 PIN FEMALE DSUB
MATING CONNECTOR



VIEW IS FROM REAR OF AIRFRAME CONNECTOR

	NAME	DATE	UNLESS OTHERWISE SPECIFIED:	 ANODYNE ELECTRONICS MANUFACTURING CORP.	KELOWNA BC CANADA (250)-763-1088 WWW.AEM-CORP.COM
DRAWN	AMP	01-OCT-2025	DIMENSIONS ARE IN INCHES [MM]		
CHECKED		31-Oct-2025	TOLERANCES: FRACTIONAL _____ ±0.0625" ANGULAR _____ ±0.5° TWO DECIMAL PLACE _____ ±0.010" THREE DECIMAL PLACE _____ ±0.005"		
APPROVED		24-Nov-2025	MATERIAL:	TITLE: <h2 style="text-align: center;">ROUTER CONNECTOR MAP</h2>	
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.			FINISH:		
			MATERIAL: NA FINISH: NA -	SCALE: 1:1 DO NOT SCALE DRAWING DRAWING No.: 405-0	SHEET: 5 of 5



- NOTES:
1. MASS 3.3 lb [1.5 kg] MAX
 2. -●- DENOTES APPROXIMATE CENTER OF MASS
 - ③ PRODUCT LABEL
 - ④ J6 & J7 ACCESS PANEL

	NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN	AMP	12-AUG-2025	DIMENSIONS ARE IN INCHES (MM)
CHECKED	<i>[Signature]</i>	12-Aug-2025	TOLERANCES:
APPROVED	<i>[Signature]</i>	30-Oct-2025	ANGULAR: ±0.5°
			FRACTIONAL: ±0.0625"
			ONE DECIMAL PLACE: ±0.100"
			TWO DECIMAL PLACE: ±0.030"
			THREE DECIMAL PLACE: ±0.010"
CONFIDENTIAL AND PROPRIETARY			MATERIAL:
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.			N/A
			FINISH:
			N/A

			100-966 CROWLEY AVE. KELOWNA BC V1Y 0L1 (250)-763-1088 WWW.AEM-CORP.COM
TITLE: AUDIO ROUTER - LOW IMPEDANCE MECHANICAL INSTALLATION			
PAPER SIZE: B	CAGE CODE: L9015	PART No.: G13000RL	REVISION: 1.00
SCALE: 1:2		DO NOT SCALE DRAWING	DRAWING No.: 922-0
			SHEET: 1 OF 1