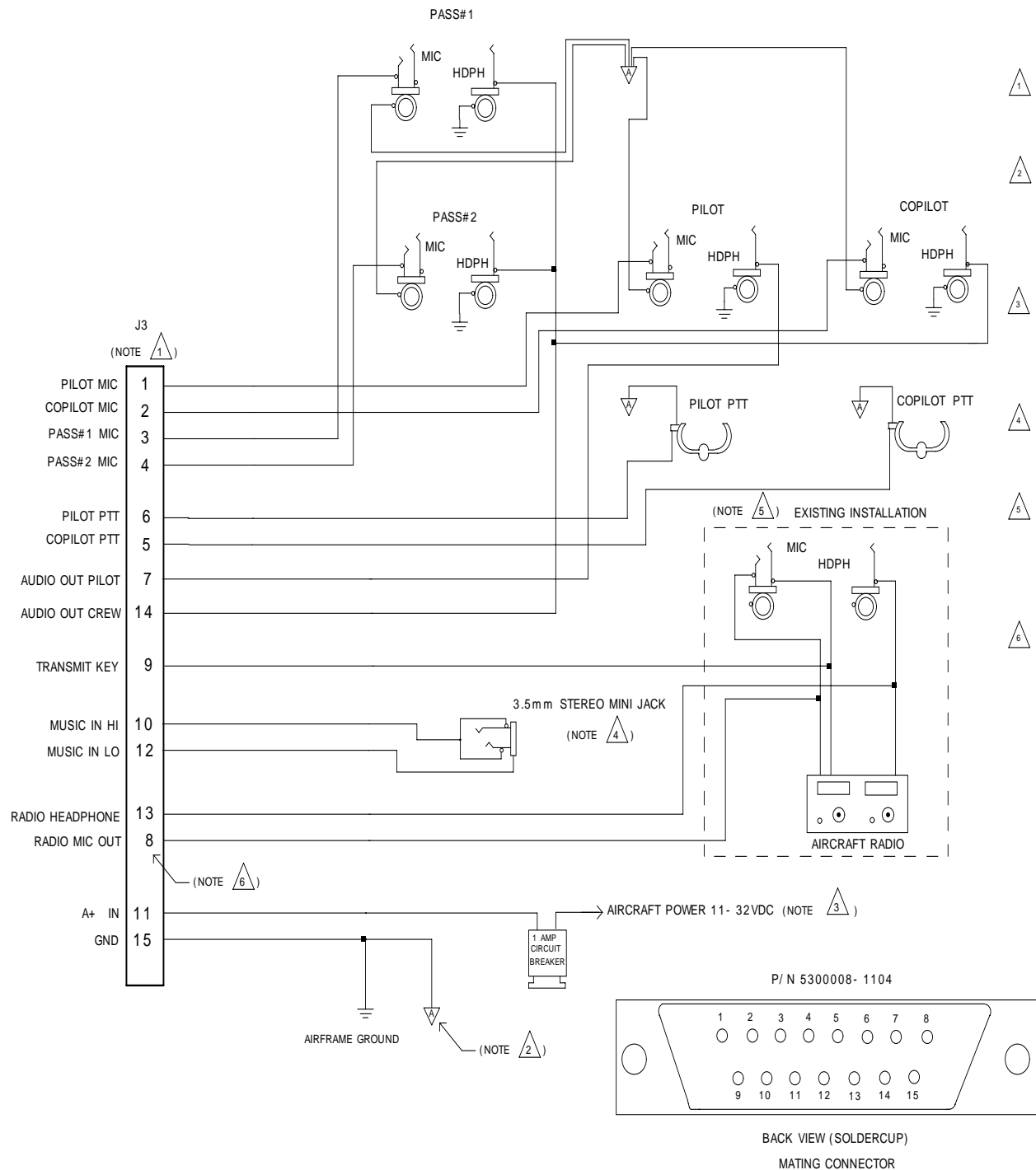


LTR	DESCRIPTION	DATE	APPROVED
A	ORIGINAL ISSUE	09-18-92	
B	ECO # 0003	05-24-93	
C	ECO # 0006	06-22-93	



- 1 ALL WIRING IS MIL- W- 22759/ 16- XX- 9 24 GA MIN; POWER AND GROUND LINES 20 GA MIN; ALL SHIELDED WIRE IS MIL- C- 27500- 24 TYPE AS APPROPRIATE. INSTALL PER FAA AC 43.13- 1() AND 43.13- 2() OR EQUIVALENT AIRWORTHINESS REQUIREMENTS, PRACTICES AND TECHNIQUES.
  - 2 TO PREVENT GROUND LOOPS AND NOISE PICKUP: (1) INSULATE ALL MIC JACKS FROM AIRFRAME GND USING INSULATING WASHERS. (2) RUN SEPARATE GROUND WRES TO EACH MIC JACK, PILOT PTT, AND COPILOT PTT FROM A CENTRAL GROUND POINT "A" WHICH SHOULD BE TIED TO AIRFRAME GND AS PHYSICALLY CLOSE TO THE HV- 1 CASE AS POSSIBLE. PIN 15, HV- 1 GND, SHOULD ALSO BE TIED TO THIS POINT "A".
  - 3 HV- 1 MAX CURRENT DRAW IS LESS THAN 60 MA. CKT BREAKER OR FUSE SHOULD BE RATED AT 1 AMP. NOTE THAT IN CASE OF LOSS OF POWER TO THE HV- 1, THE FRONT PANEL SWITCH MUST BE PLACED IN "PILOT ISO" POSITION. THIS CAUSES THE TRANSMIT/ RECEIVE FUNCTIONS TO REVERT TO NORMAL (PILOT HEADPHONES AND MIC CONNECTED DIRECTLY TO AIRCRAFT RADIO).
  - 4 USE A 3.5mm STEREO MINI JACK TO PROVIDE INPUT FROM A LOW IMPEDANCE SOURCE TYPICALLY A PORTABLE STEREO WALKMAN OR CD PLAYER. ALWAYS USE A STEREO PATCH CORD FROM THE MUSIC SOURCE TO THE HV- 1 MUSIC INPUT.
  - 5 LEAVE EXISTING MIC JACK IN THE INSTALLATION FOR EMERGENCY BACK UP ONLY. IF THERE IS A PROBLEM IN THE INTERCOM, PLACE THE HV- 1 IN "PILOT ISO" (FAILSAFE) MODE. THE HAND MIC MAY THEN BE USED TO TRANSMIT VIA THE EXISTING MIC JACK. !! CAUTION !! TRANSMITTING VIA A HAND MIC PLUGGED INTO THE EXISTING MIC JACK WHEN THE HV- 1 IS IN THE "ALL" MODE WILL RESULT IN VERY WEAK OR NONEXISTENT AUDIO AT THE RECEIVING END.
  - 6 THE MIC OUTPUT AT PIN 8 IS ALWAYS "ON". SOME A/ C RADIOS DO NOT HAVE AN INTERNAL RELAY TO OPEN THEIR MIC LINE WHEN THE RADIO IS NOT KEYP. IN THIS CASE, THERE WILL ALWAYS BE AUDIO OUTPUT ON THE EXTERNAL SPEAKER.
- AN EXTERNAL DEVICE CAN BE INSTALLED IN THE MIC LINE TO THE A/ C RADIO TO KEEP THE LINE OPEN UNTIL THE RADIO IS KEYP.

		4200004	INSTALL KIT, HV- 1	TAI
2		5000004	KNOB, CONTROL	ALCOKNOB K500B 1/ 8
1		5000029	FACEPLATE, HYPERVOX	TAI
1		5300008- 1104	CONNECTOR, D- SUB	NORWESCO, E15S
1		5300017- 011	CABLE BACKSHELL, D- SUB	NORWESCO, GPH- 15
1		2000009	INSTALL MANUAL, HV- 1	TAI
2		6001719- 0705	4- 40 X .375 BLACK OX SCREW	TAI
		4200010	INSTALL KIT, JACKS, HV- 1	TAI
4		5000012	JACK, PHONE	SWITCHCRAFT JJ034
4		5000013	JACK, MIC	SWITCHCRAFT JJ033
4		5300014	WASHER, SHOULDER	SWITCHCRAFT S- 1029
4		5300018	WASHER, FLAT INSULATING	SWITCHCRAFT S- 1028
QTY	CODE ID	TROLL PART NO.	NOMENCLATURE OR DESCRIPTION	NOTES AND REF DESIG.

PARTS LIST				
CONTRACT NO.		TROLL AVIONICS INCORPORATED VALENCIA, CALIFORNIA		
APPROVAL	DATE 08/ 01/ 91	INSTALLATION WIRING DIAGRAM		
DRAWN P/L		Model HV- 1 HYPERVOX		
TAI ENG APPROVED		SIZE D	CODE IDENT HV_ 1_ SZ.S01	DRAWING NO. 2000014
FAA- PMA PROCEDURES REQUIRED	YES NO	SCALE	REV. C	SHEET 1 OF 1