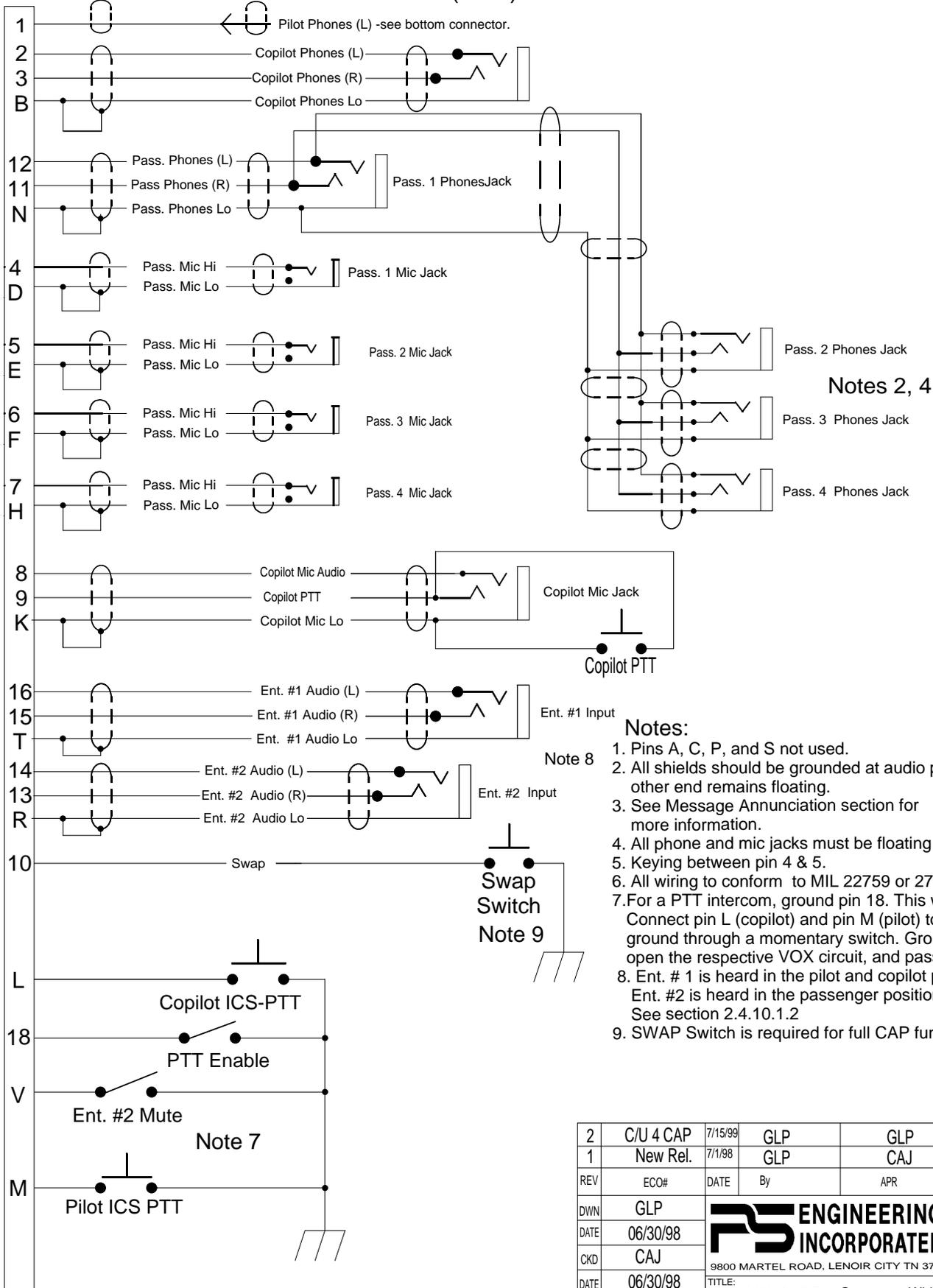


TOP_CAP.pdf

BOT_CAP.pdf

CAPAnnex.pdf

PMA7000M-S J2 TOP CONNECTOR (CAP)

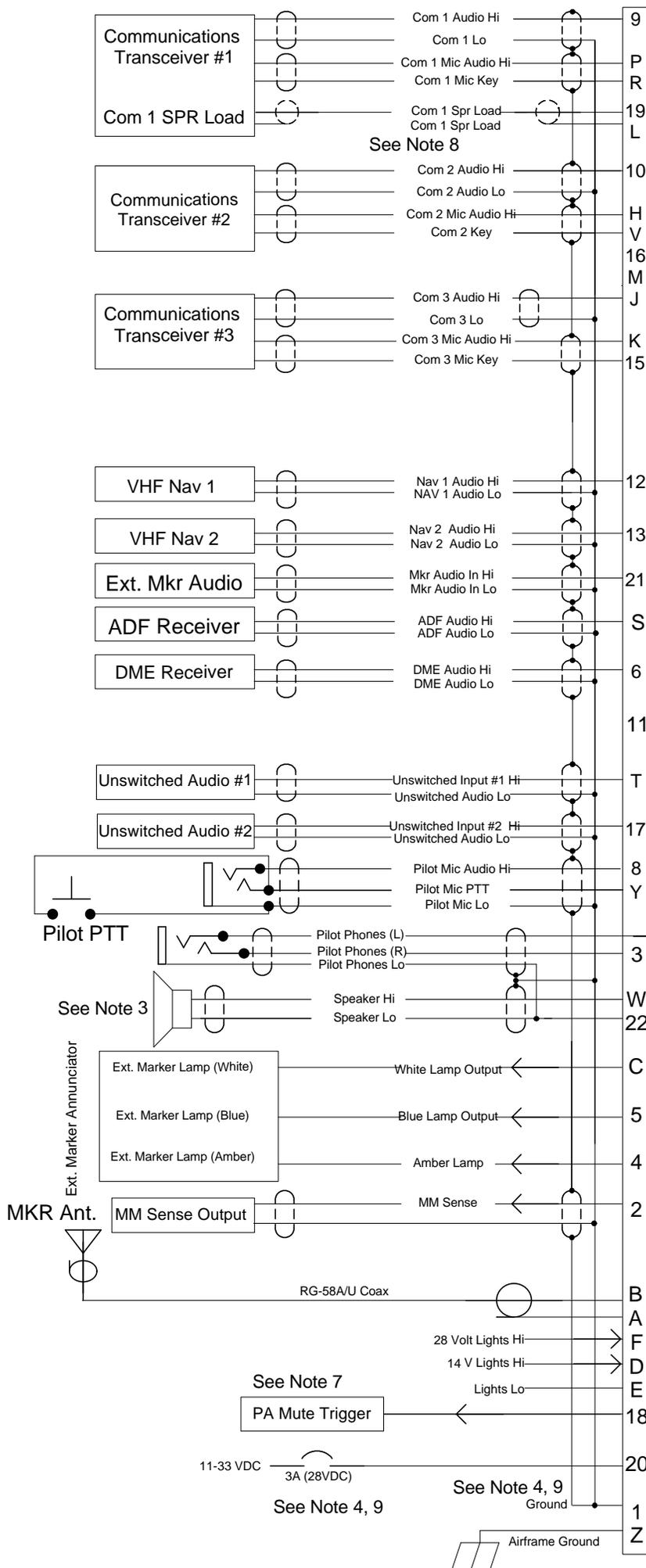


Notes 2, 4

Notes:

1. Pins A, C, P, and S not used.
2. All shields should be grounded at audio panel only. other end remains floating.
3. See Message Annunciation section for more information.
4. All phone and mic jacks must be floating from ground.
5. Keying between pin 4 & 5.
6. All wiring to conform to MIL 22759 or 27500.
7. For a PTT intercom, ground pin 18. This will force intellivox closed. Connect pin L (copilot) and pin M (pilot) to ground through a momentary switch. Grounding these pins will open the respective VOX circuit, and pass mic signals.
8. Ent. # 1 is heard in the pilot and copilot positions only, Ent. # 2 is heard in the passenger positions only. See section 2.4.10.1.2
9. SWAP Switch is required for full CAP functionality.

2	C/U 4 CAP	7/15/99	GLP	GLP
1	New Rel.	7/1/98	GLP	CAJ
REV	ECO#	DATE	By	APR
DWN	GLP			
DATE	06/30/98			
CKD	CAJ	9800 MARTEL ROAD, LENOIR CITY TN 37922		
DATE	06/30/98	TITLE: PMA7000 CAP Top Connector Wiring		
APR	GLP	SIZE	DOCUMENT NUMBER:	REV
DATE	07/01/98	A	120-070-0402	2
DATE:		07/01/98		SHEET 1 OF 1



Bottom Connector, J1

Notes:

1. Pins 7, U, 11, and X not used.
2. All shields should be grounded at audio panel only. Other end remains floating.
3. Speaker and Pilot Headphone ground returns MUST be kept separate and connected to pin 22.
4. All Power and Ground wires must be #18 gage wire
5. Pilot mic and headphone jacks must be isolated from ground.
6. Pin 20 connected through a 3 A breaker.
7. PA Mute is a TTL level logic output that is pulled low when PTT active.
8. Speaker loads may be required on some transceivers. Consult manufacturer's information.
9. Reserved
10. Reserved
11. All shielded wires must be MIL 22759 or 27500.
12. For stereo installation, connect pilot headphone (L) to top connector, Pin 1, using 3-conductor wire.
13. Key pin between pin 7 and 8.

→ To Pin 1
Top Conn.
See Note 12

REV	GLP	Clean up notes
REV	GLP	Remove AUX input
DWN	GLP	
DATE	11/11/98	
CKD		9800 MARTEL ROAD, LENOIR CITY TN 37922
DATE	11/11/98	TITLE: PMA7000 Bottom Connector Wiring (CAP)
APR	GLP	SIZE: DOCUMENT NUMBER: 120-070-0211 REV: 1
DATE	11/11/98	DATE: 11/11/98 SHEET 1 OF 1

Record of revisions:

REV:	ECO	Description	Approved:
1		Change from passenger swap to parallel interface	Picou
2		Correct Newark P/N on Mil Spec switch	Picou

**Annex A,
PMA7000MS-CAP
Installation Manual**

**Copilot/Observer
Transmit Exchange
Wiring**

**RS ENGINEERING[®]
INCORPORATED**

9800 Martel Road, Lenoir City TN 37772

Title: CAP Observer/Copilot Wiring Annex

Document Number: 002-072-0920

Pages: 3

Written By: Gary Picou

Checked By:

Approved By:

Date: 8/21/2000

Date:

Date:

Purpose:

The purpose of this document is to provide interconnect information to add a transmit position (observer) to share the COM 3 transceiver if necessary.

Applicability

This applies only to PMA7000MS-CAP versions.

Components required

K1 and K2-	Potter & Brumfield KHS-14D11-24
Diodes-	1N4004 (or Equiv.) (3 ea.)
Switch-	SPDT Momentary, Center off Mil-Spec = 11TW1-7 Industrial = 11TS15-7 Standard = 7105SYZQE

Limitations

All wires must be Mil-Spec. Use 2-, 3- and 4- conductor wire with shield as indicated. Use insulating washers on all jacks to prevent ground loops. Connect shields at unit only.

This drawing is for reference only. PS Engineering, Inc. makes no guarantee that this interconnect will work in all cases.

Operational notes

1. Pass 1 can only transmit on CAP radio.
2. Pilot and copilot can still hear CAP radio
3. Pilot and copilot can hear passenger transmit.
4. Pilot and copilot positions still have use of all 3 radios except when the Pass 1 is in ICS PTT.
5. Pass 1 push to talk puts him on CAP com only.
6. The crew can hear, but cannot transmit on COM 3 while the PASS 1 has radio keyed.
7. When the Pass 1 uses the ICS PTT, he overrides the copilot on the intercom.
 - a. When the PTT ICS is activated,
 - b. the copilot cannot transmit
 - c. This prevents the passenger's voice from going out instead of the copilot's.
 - d. If pass 1 does not push the ICS PTT switch, he will be heard on the passenger intercom, but NOT in crew intercom in CREW or Split modes.

