

240-0037415 SHEET 6 CHG B (REF)  
T.C.T.O. 11-29-565A(REF)

Figure 10-2. Interphone (USAF Combat) Circuit (Sheet 6 of 6)  
(Airplanes 51-3807 to 51-5143, and 51-5145 to 51-7917 Incl)

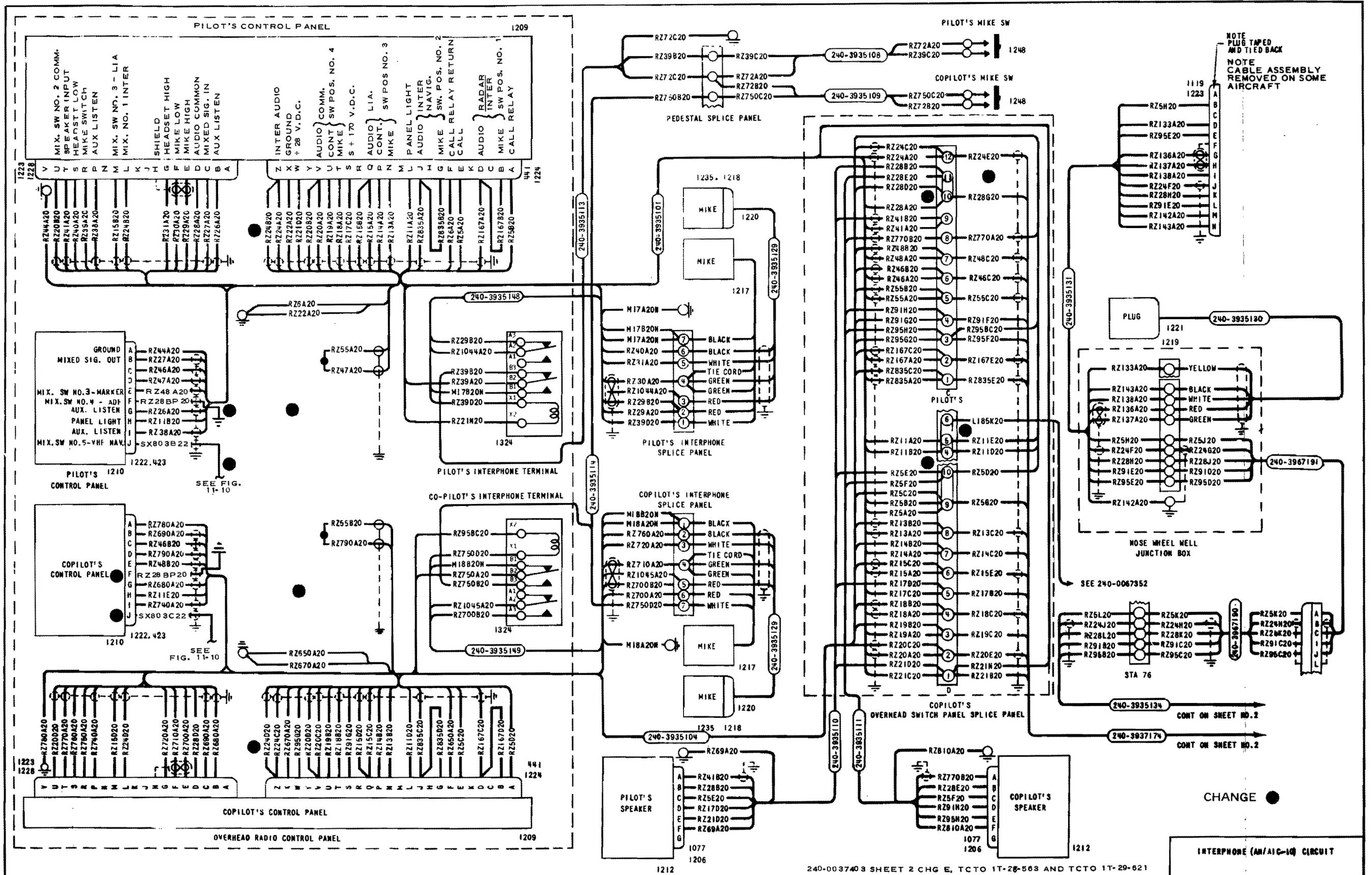


Figure 10-3. Interphone (AN/AIC-10) Circuit (Sheet 1 of 8) (Airplanes 51-5144, 52-1092 to 52-1095 Incl)

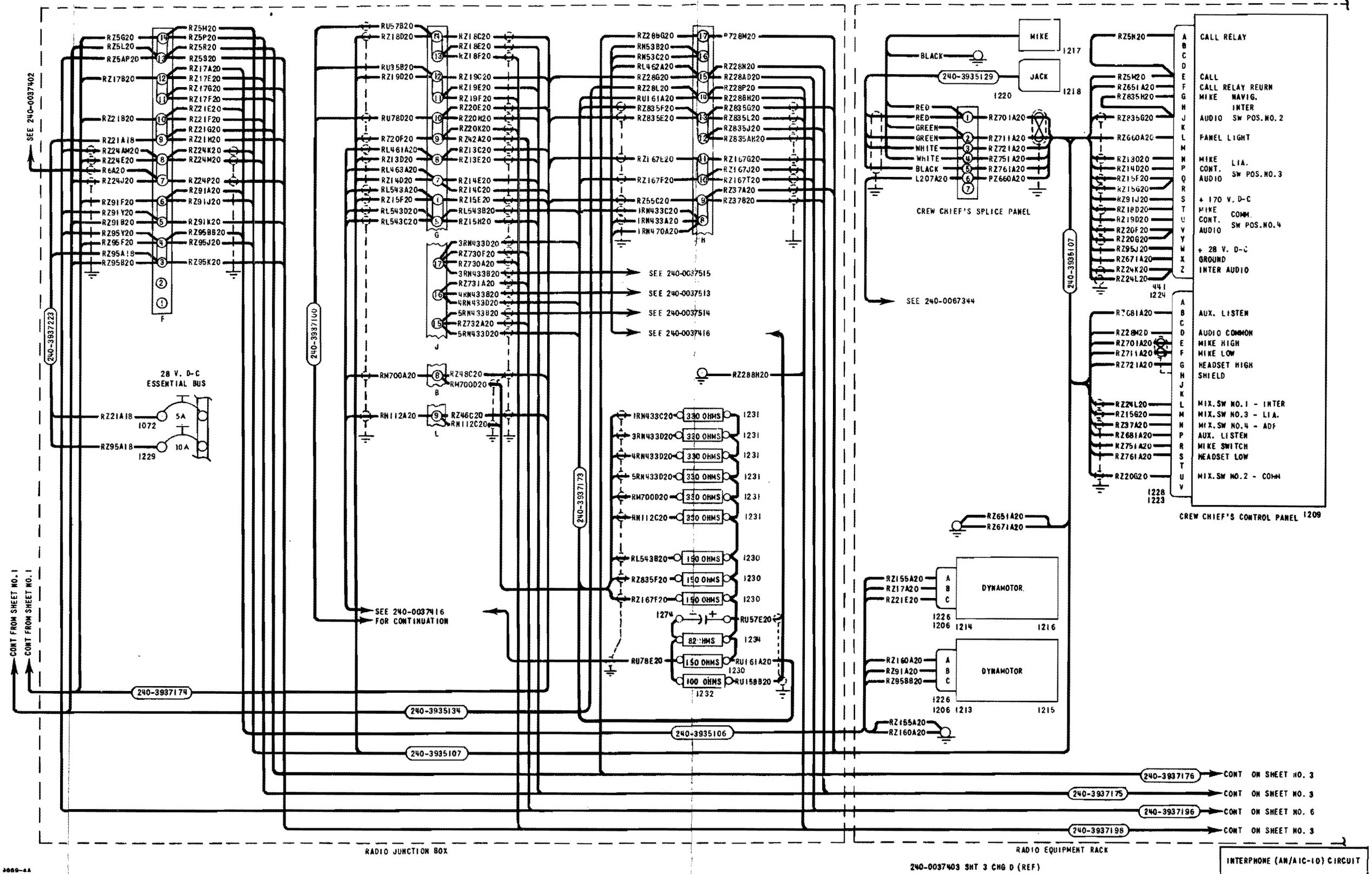


Figure 10-3. Interphone (AN AIC-10) Circuit (Sheet 2 of 8) (Airplanes 51-5144, 52-1092 to 52-1095 Incl)

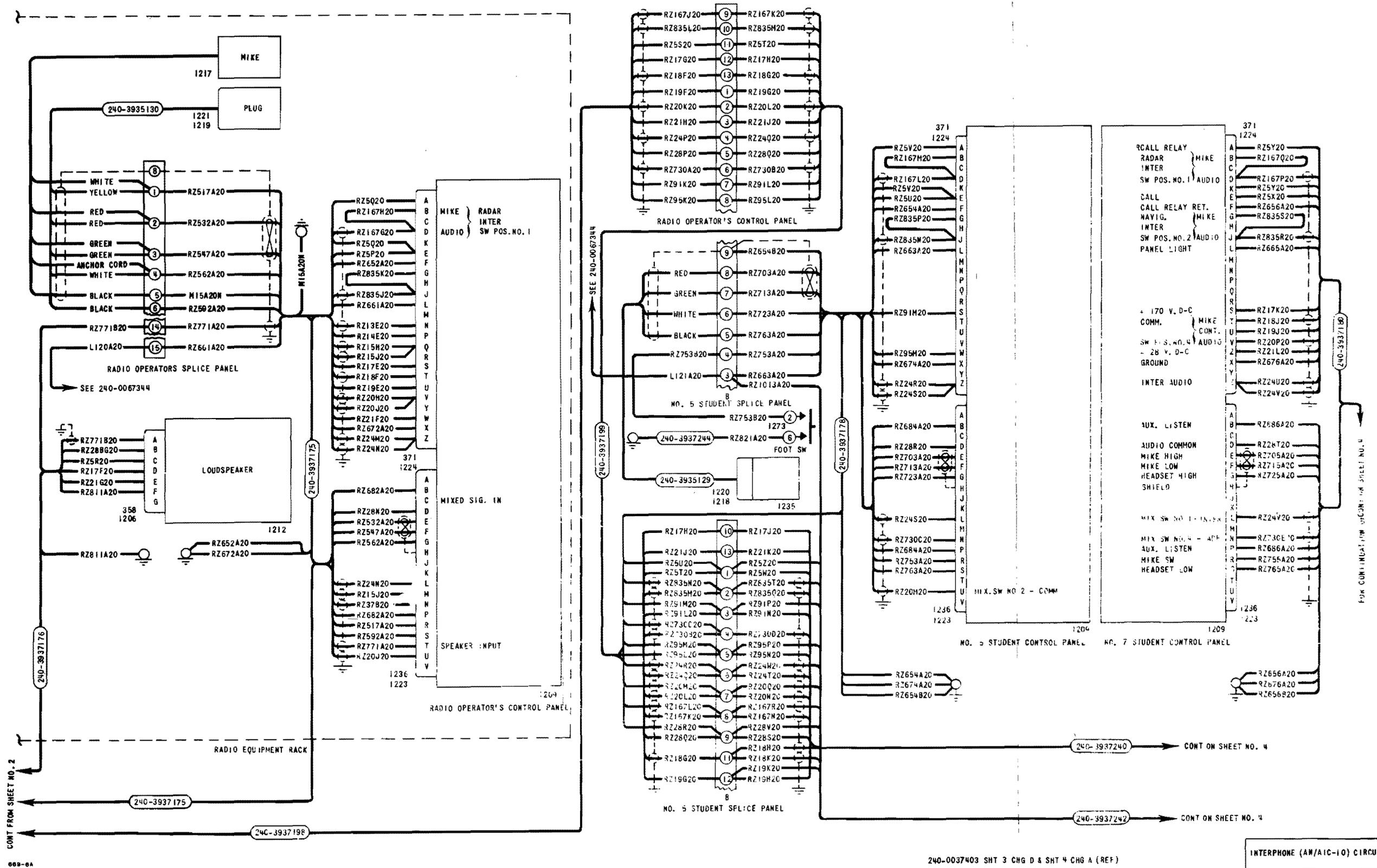
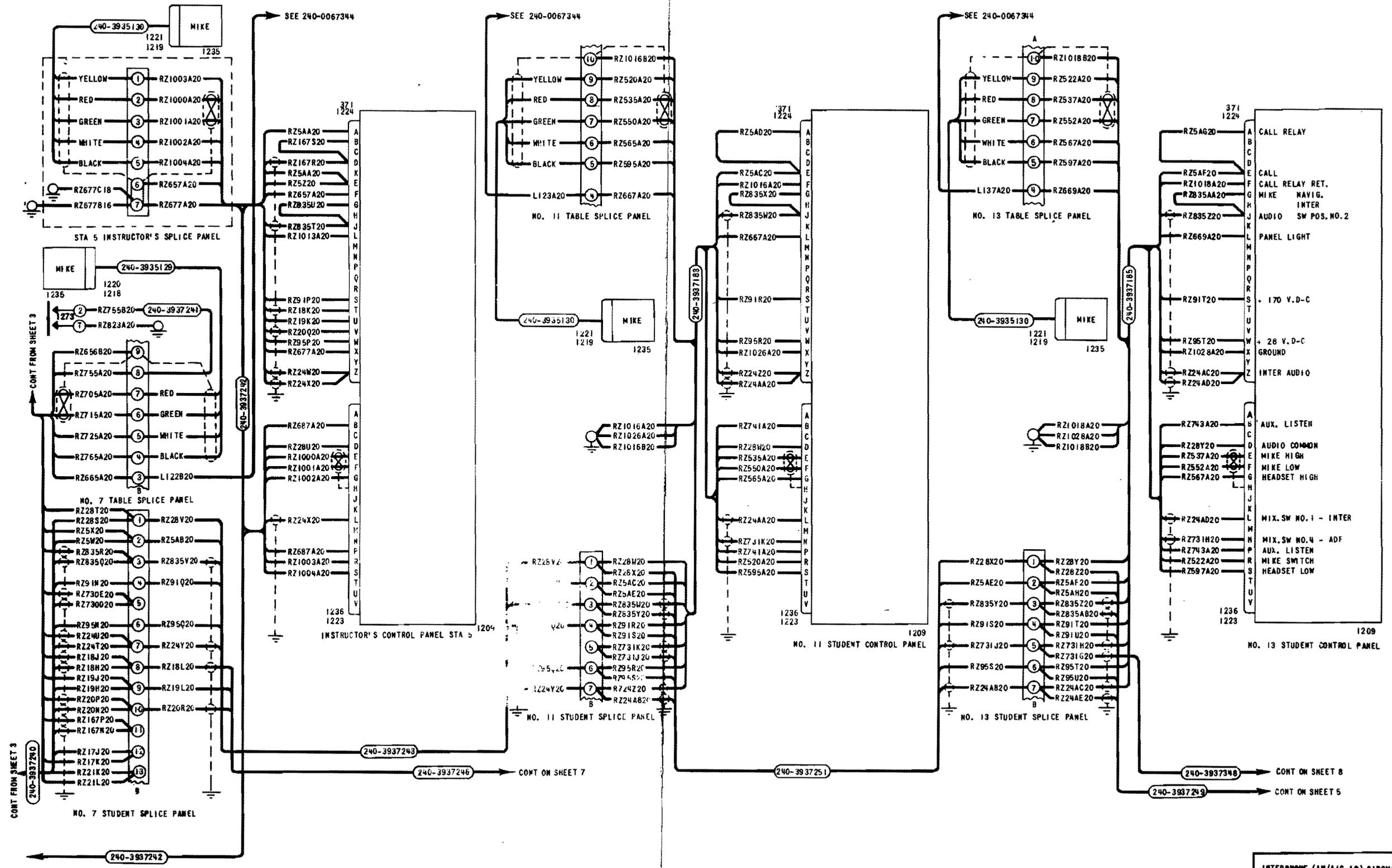


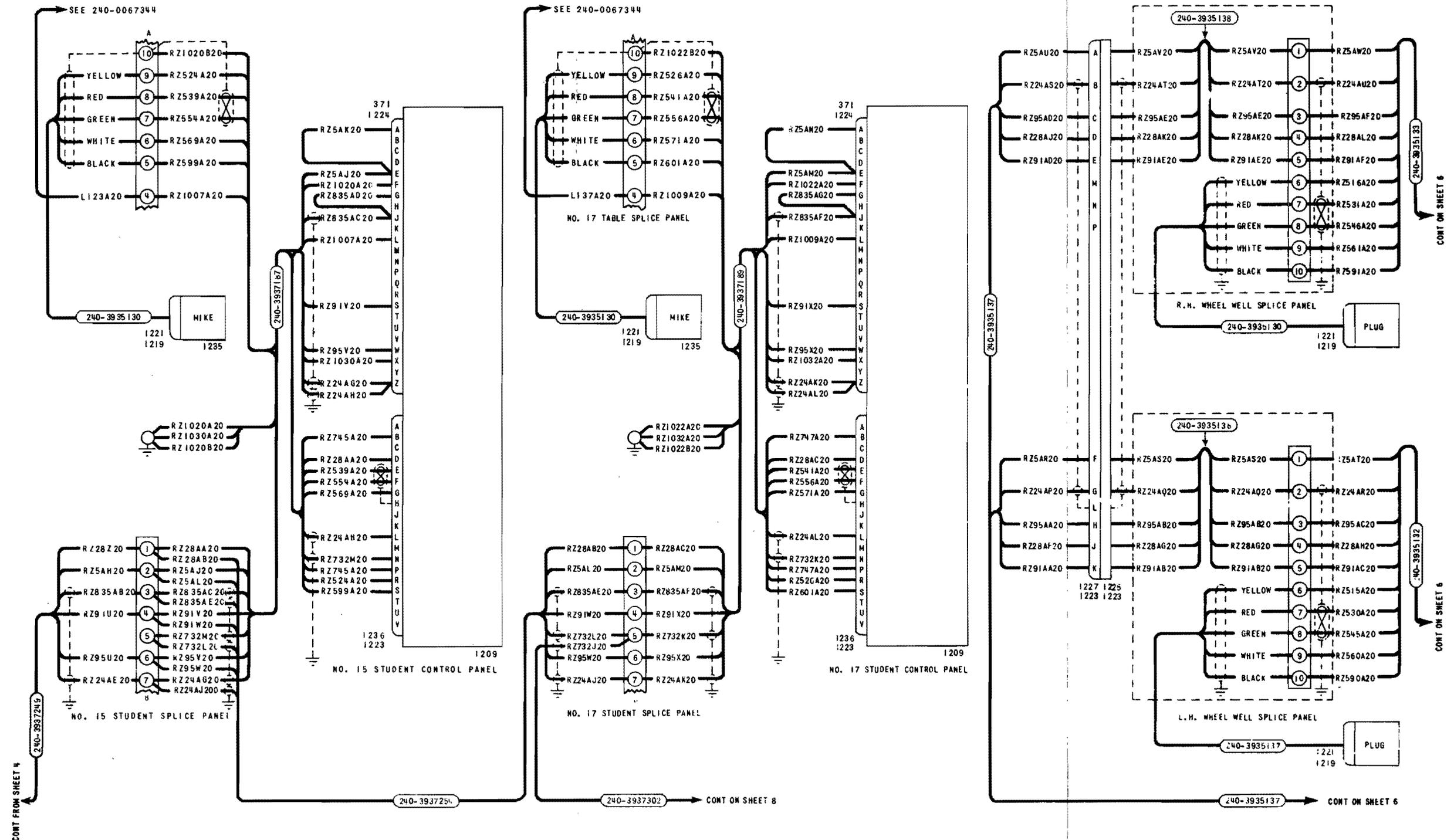
Figure 10-3. Interphone (AN/AIC-10) Circuit (Sheet 3 of 8)  
 (Airplanes 51-5144, 52-1092 to 52-1095 Incl)



240-0037403 SHT 4 & 5 CHG A (REF)

INTERPHONE (AM/AIC-10) CIRCUIT

Figure 10-3. Interphone (AM/AIC-10) Circuit (Sheet 4 of 8) (Airplanes 51-5144, 52-1092 to 52-1095 Incl)



1600-10

240-0037403 SMT 5 & 6 CHG A (REF)

INTERPHONE (AN AIC-10) CIRCUIT

Figure 10-3. Interphone (AN AIC-10) Circuit (Sheet 5 of 8) (Airplanes 51-5144, 52-1092 to 52-1095 Incl)

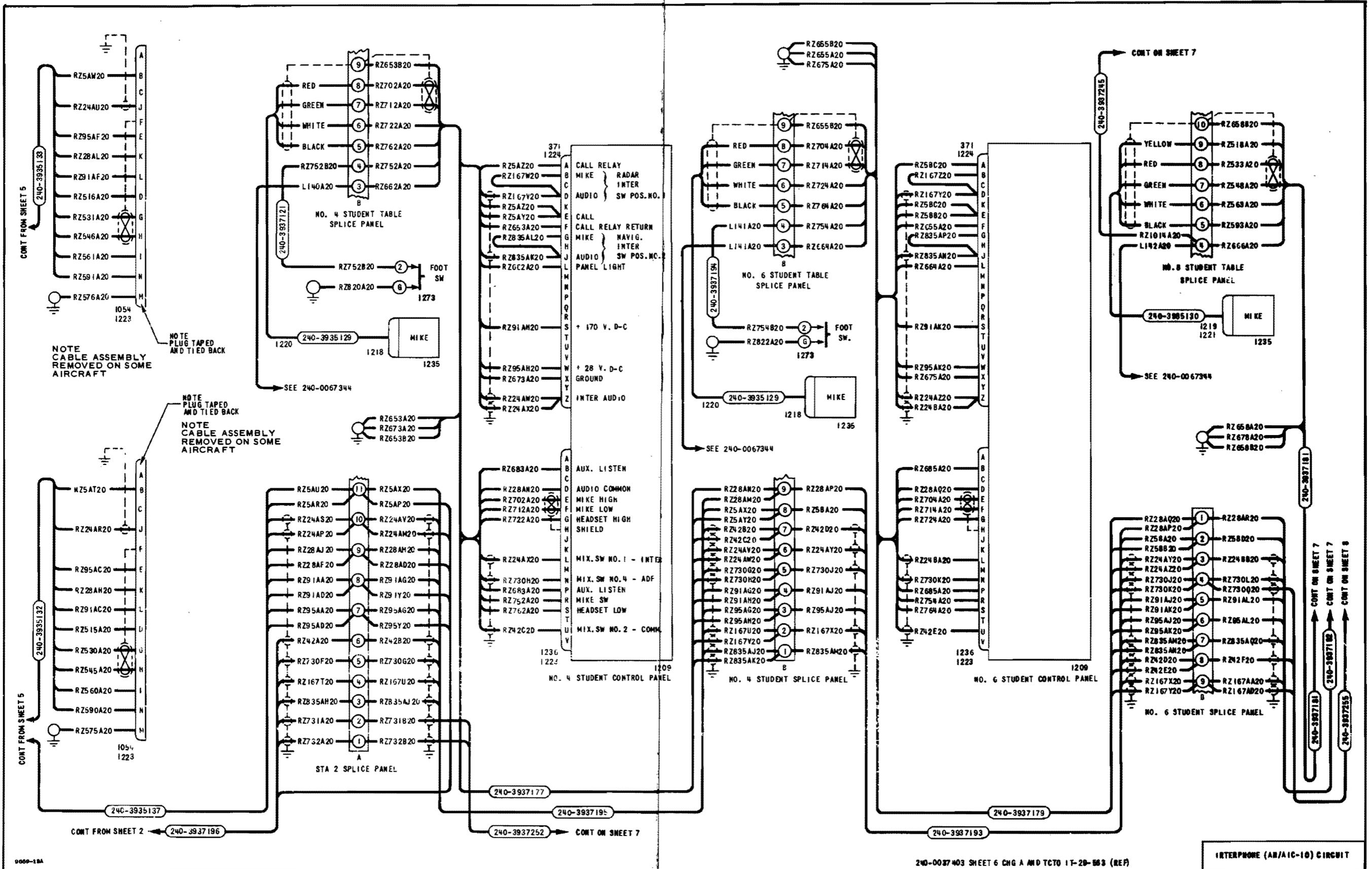
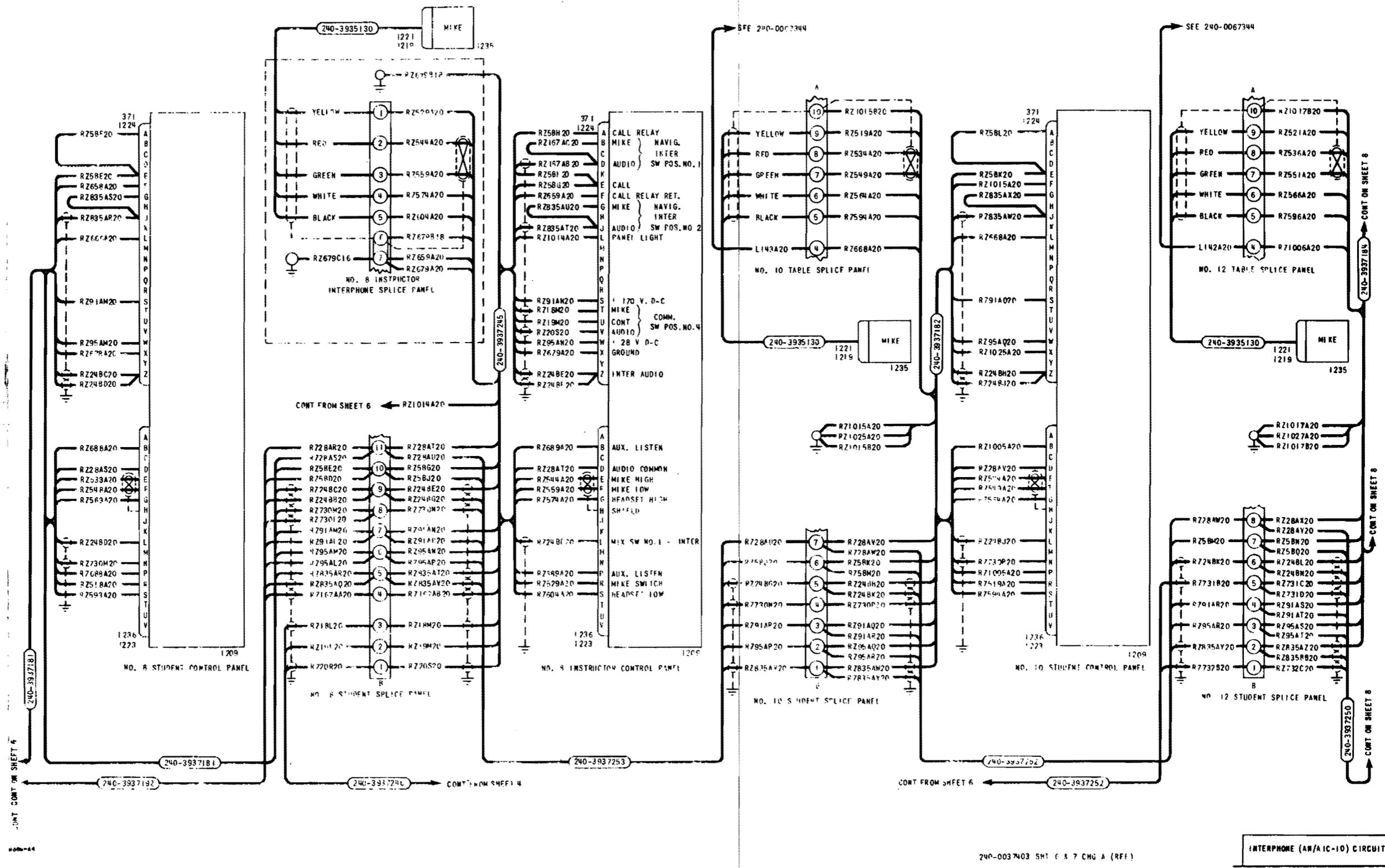


Figure 10-3. Interphone (AN/AIC-10) Circuit (Sheet 6 of 8) (Airplanes 51-5144, 52-1092 to 52-1095 Incl)



240-0037403 SHY C 8 7 CHG A (RF1)  
 Figure 11-10-3. Interphone (AN/AIC-10) Circuit (Sheet 7 of 8)

Figure 10-3. Interphone (AN/AIC-10) Circuit (Sheet 7 of 8)  
 (Airplanes 51-5144, 52-1092 to 52-1095 Incl)

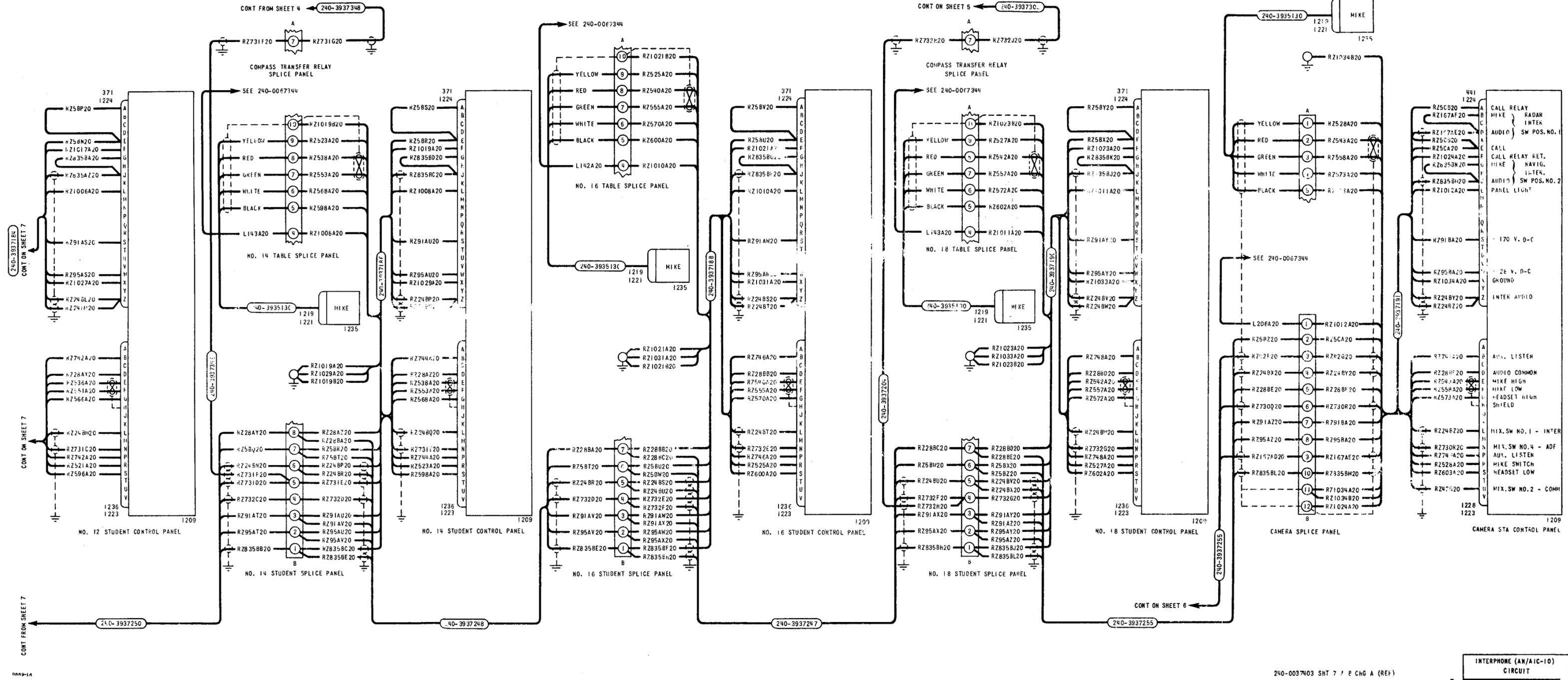


Figure 10-3. Interphone (AN/AIC-10) Circuit (Sheet 8 of 8) (Airplanes 51-5144, 52-1092 to 52-1095 Incl)

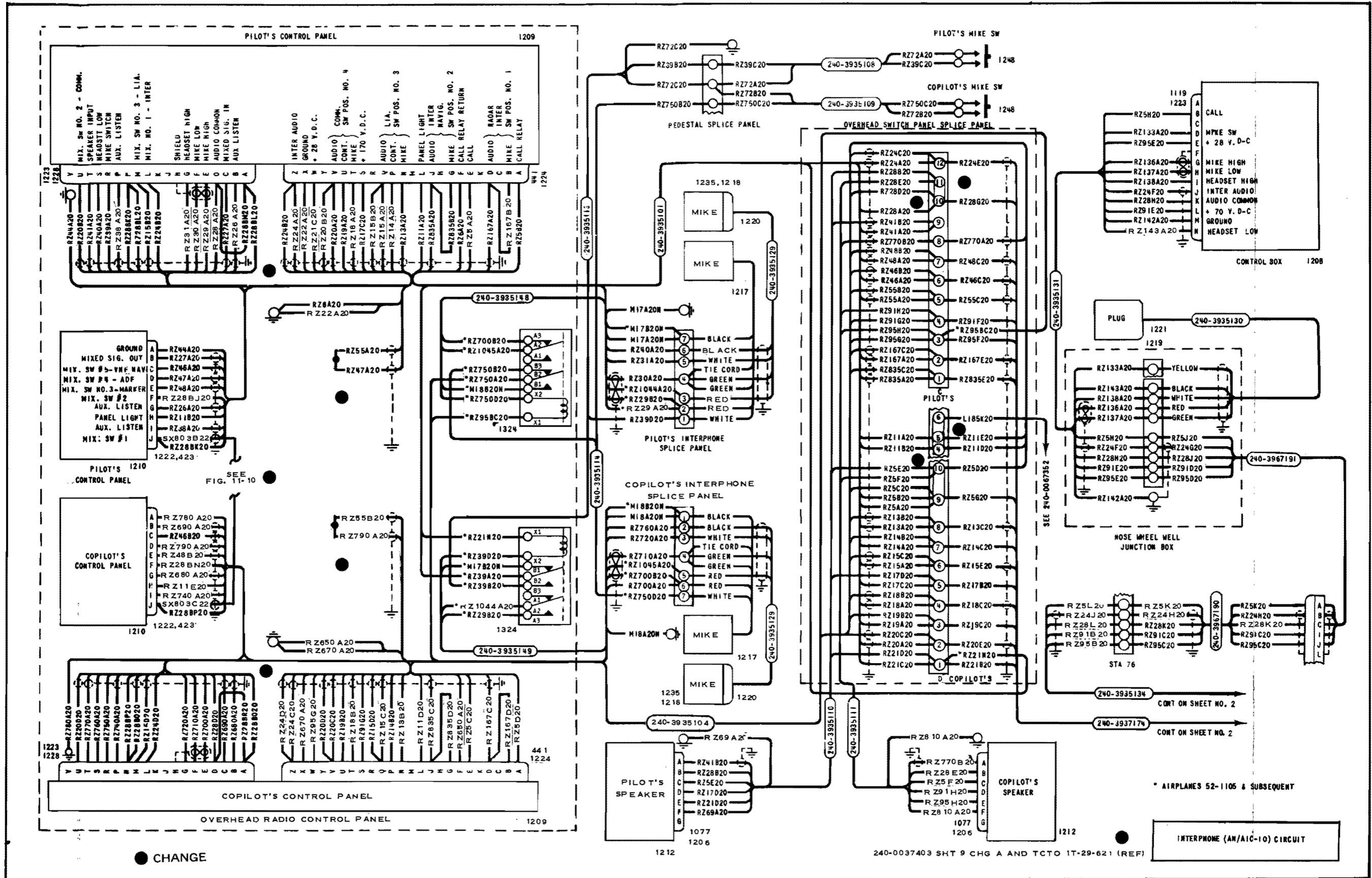


Figure 10-4. Interphone (AN/AIC-10) Circuit (Sheet 1 of 8)  
(Airplanes 52-1091, 52-1096 to 52-1155 Incl)

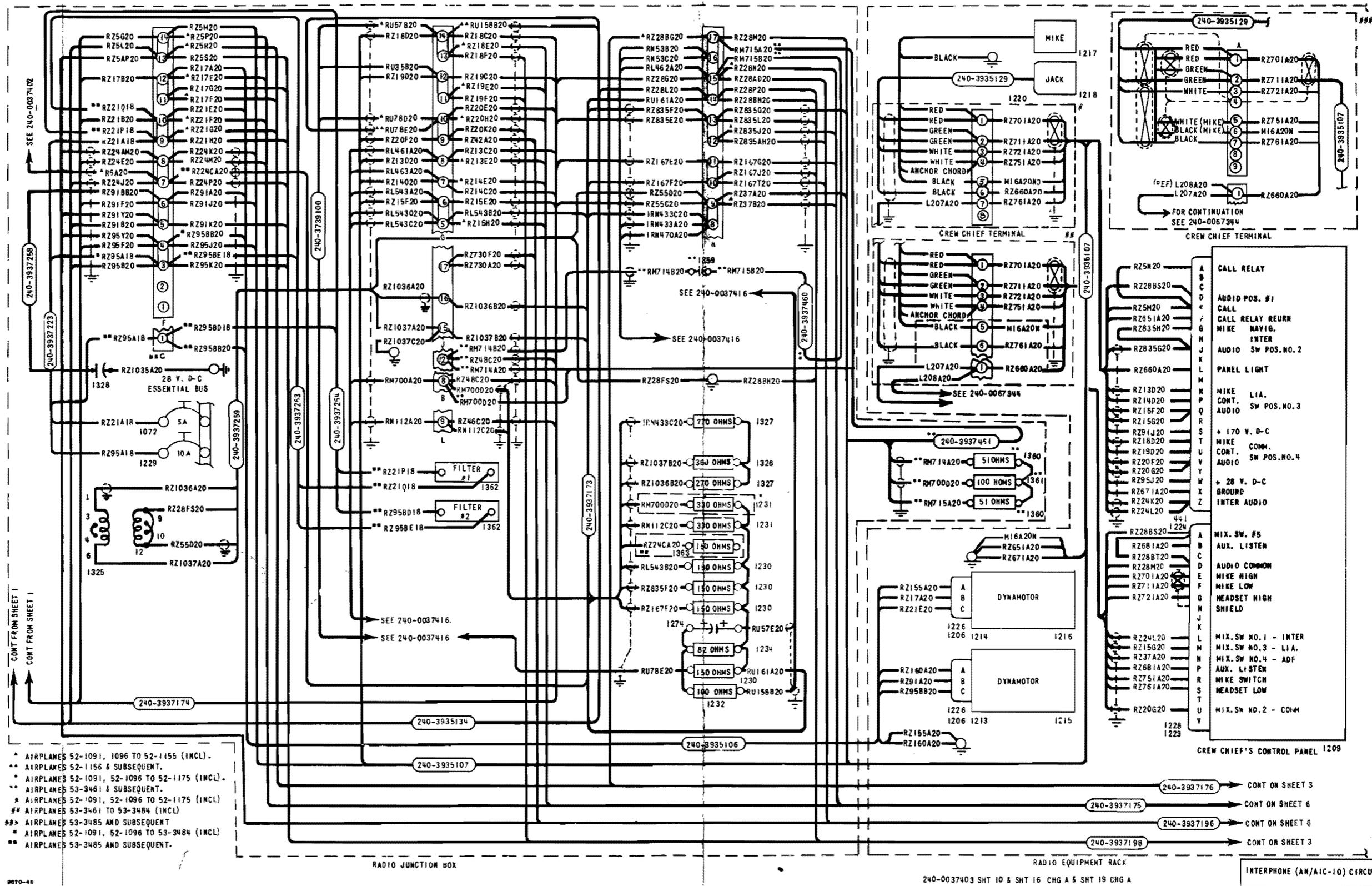
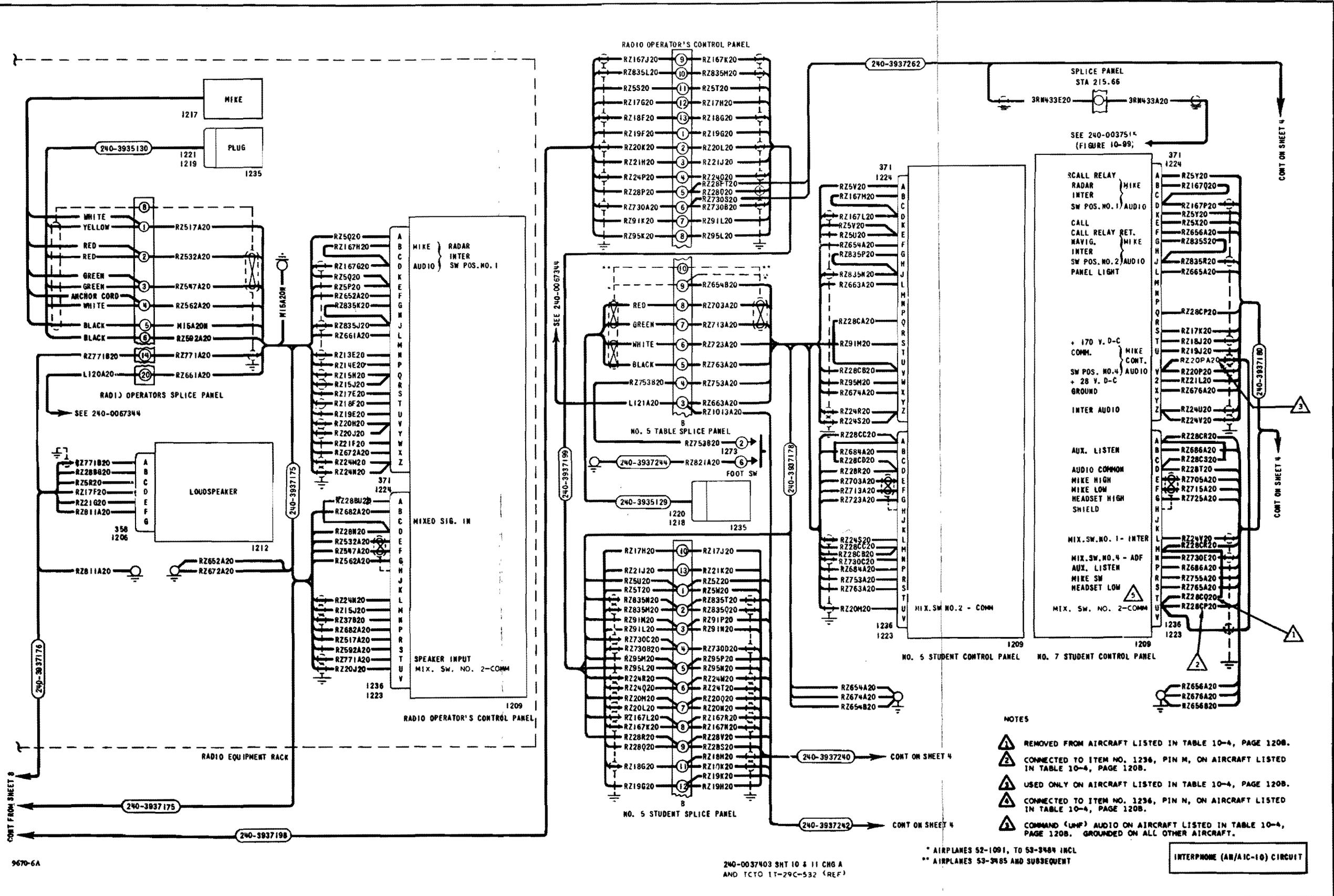


Figure 10-4. Interphone (AN/AIC-10) Circuit (Sheet 2 of 8) (Airplanes 52-1091, 52-1096 to 52-1155 Incl)



9670-6A

240-0037403 SHT 10 & 11 CHG A AND TCY TO 1T-29C-532 (REF)

Figure 10-4. Interphone (AN/AIC-10) Circuit (Sheet 3 of 8) (Airplanes 52-1091, 52-1096 to 52-1155 Incl)

Changed 15 January 1965

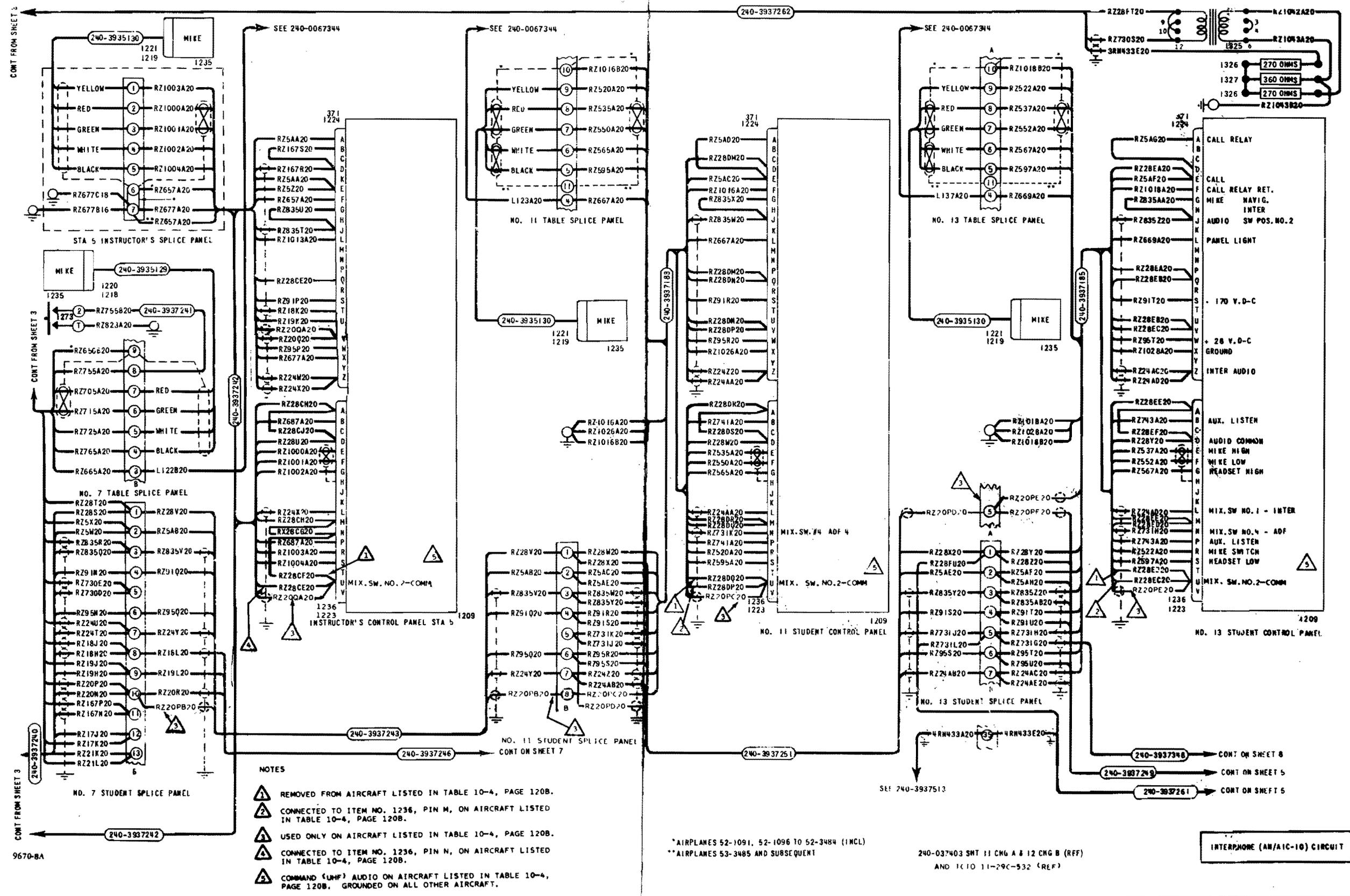
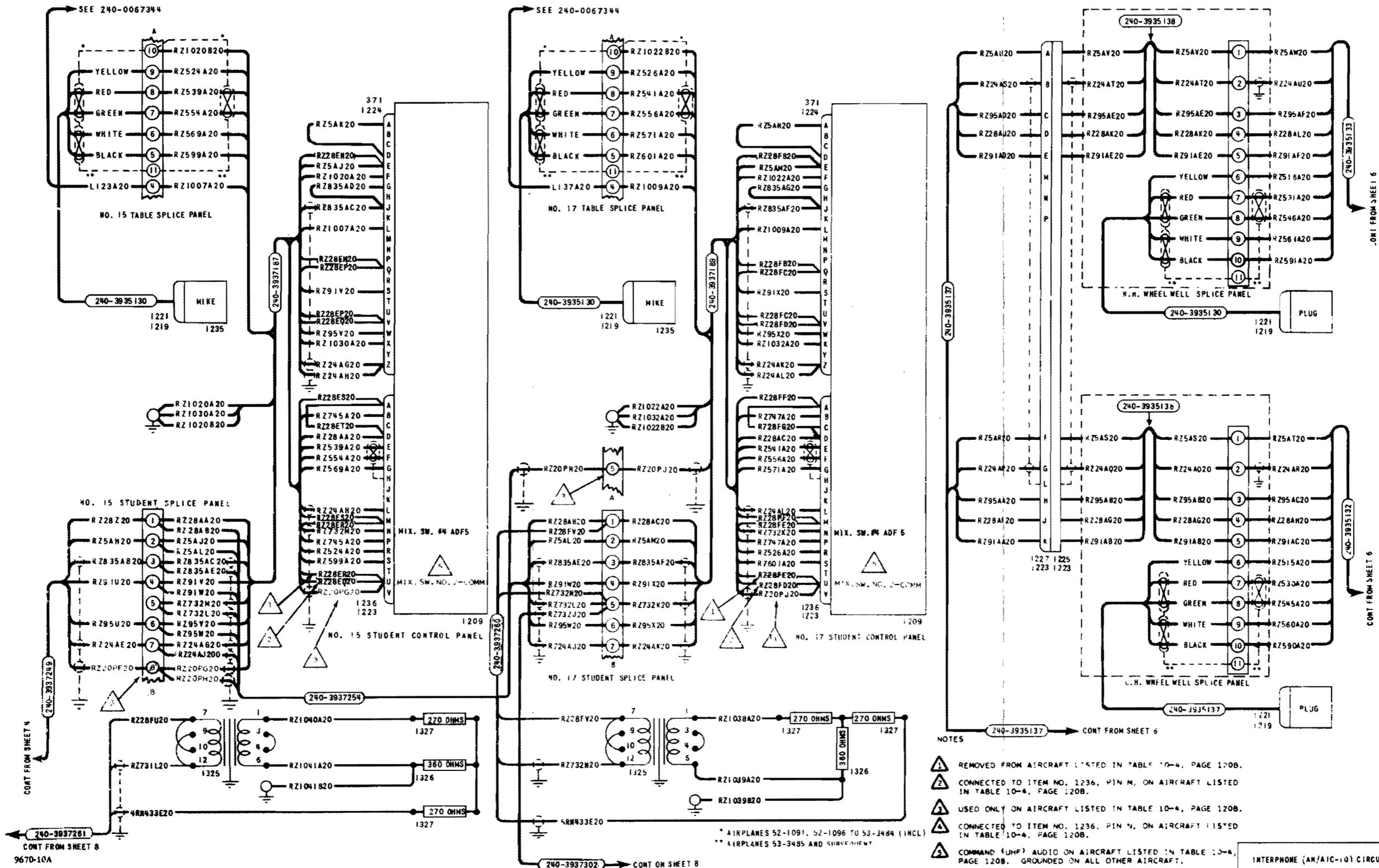


Figure 10-4. Interphone (AN/AIC-10) Circuit (Sheet 4 of 8) (Airplanes 52-1091, 52-1096 to 52-1155 Incl)



- NOTES
- ⚠ REMOVED FROM AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - ⚡ CONNECTED TO ITEM NO. 1236, PIN M, ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - ⚡ USED ONLY ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - ⚡ CONNECTED TO ITEM NO. 1236, PIN N, ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - ⚡ COMMAND (UHF) AUDIO ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B. GROUNDED ON ALL OTHER AIRCRAFT.
- INTERPHONE (AN/AIC-10) CIRCUIT

Figure 10-4. Interphone (AN/AIC-10) Circuit (Sheet 5 of 8) (Airplanes 52-1091, 52-1096 to 52-1155 Incl)

Changed 15 January 1965

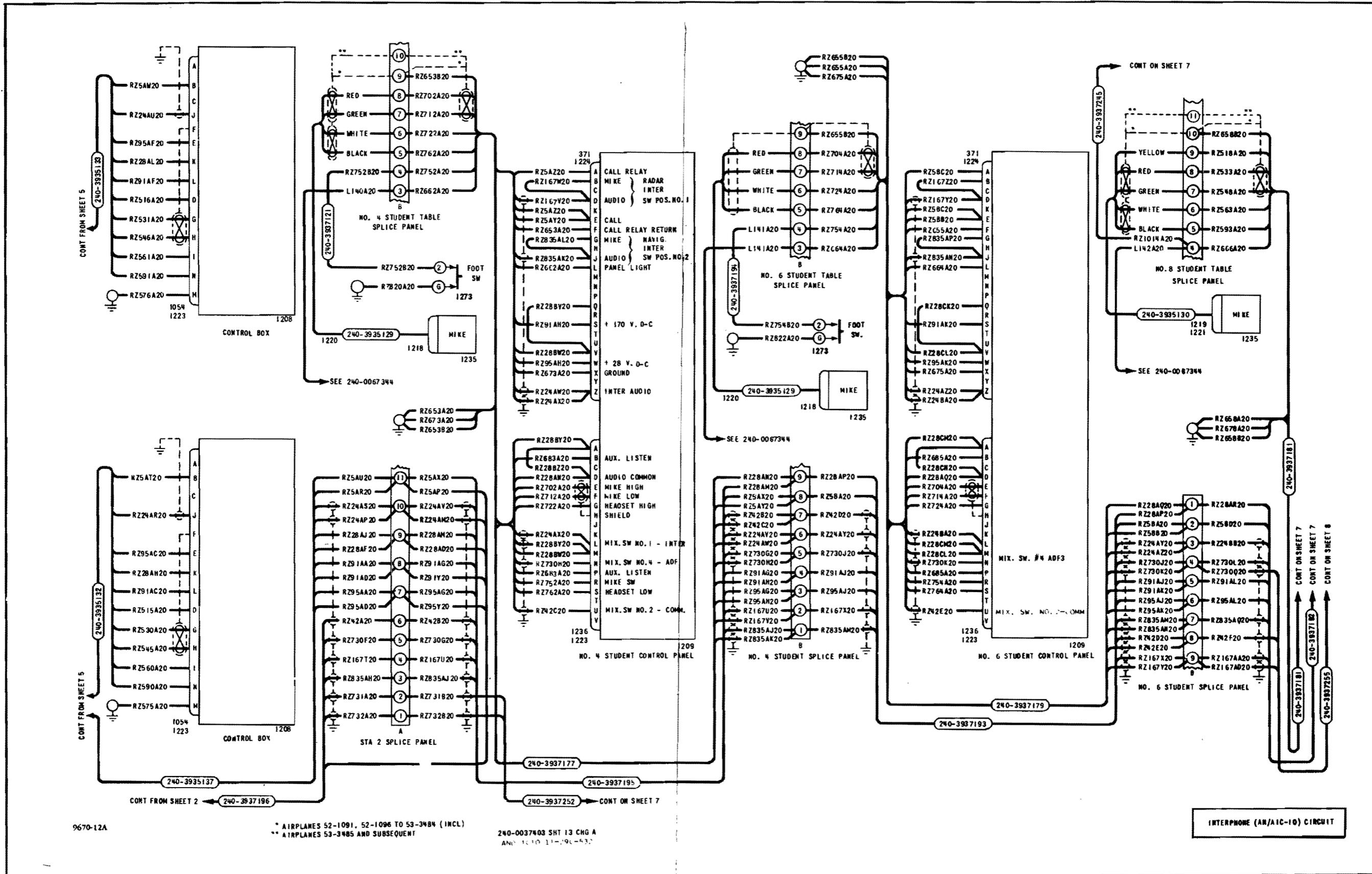
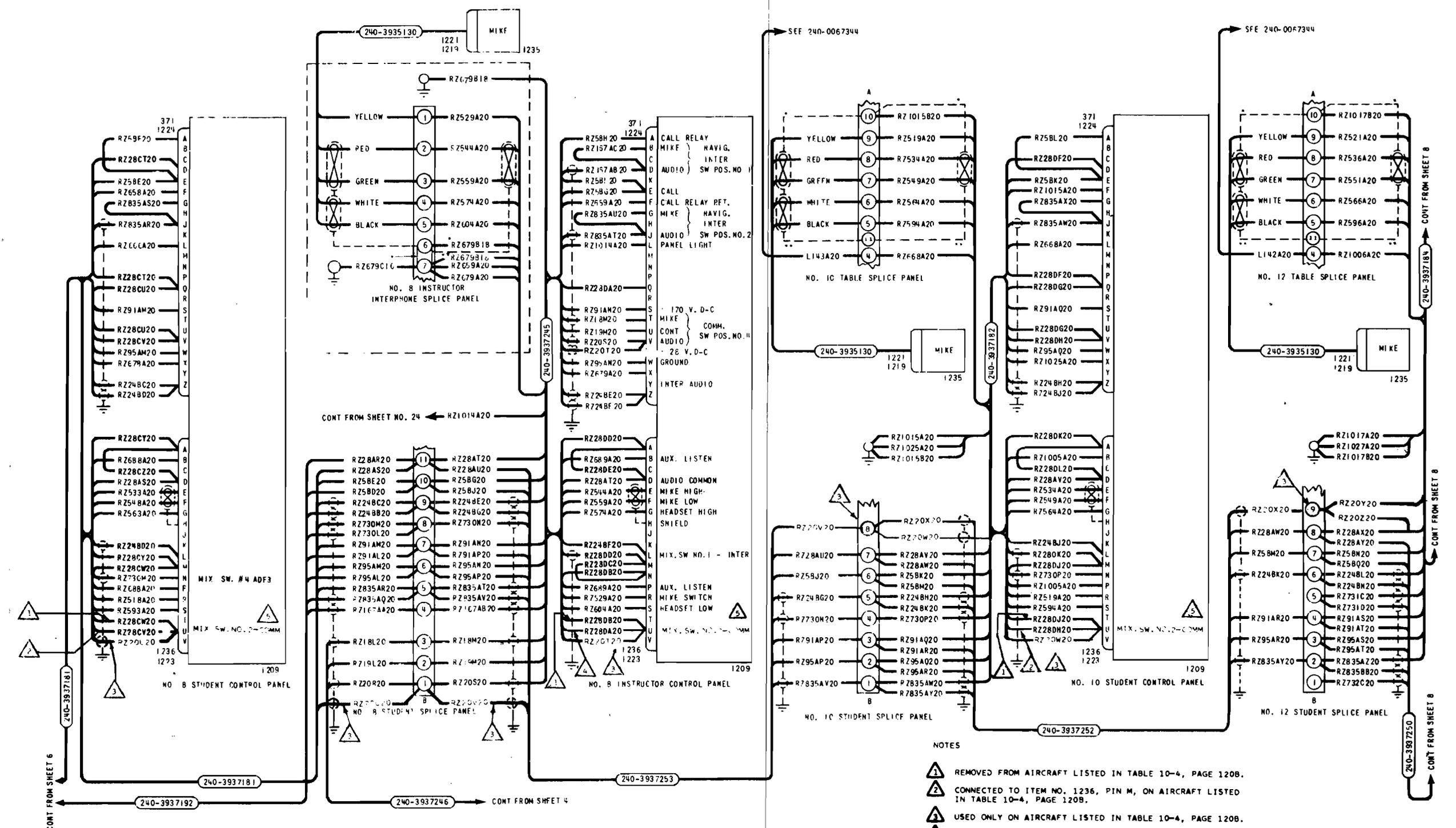


Figure 10-4. Interphone (AN/AIC-10) Circuit (Sheet 6 of 8)  
 (Airplanes 52-1091, 52-1096 to 52-1155 Incl)  
 Changed 15 January 1965



- NOTES
- 1 REMOVED FROM AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - 2 CONNECTED TO ITEM NO. 1236, PIN M, ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - 3 USED ONLY ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - 4 CONNECTED TO ITEM NO. 1236, PIN N, ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - 5 COMMAND (UHF) AUDIO ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B; GROUND ON ALL OTHER AIRCRAFT.

INTERPHONE (AN/AIC-10) CIRCUIT

240-0037403 SMT 13 CHG A, SMT 14 CHG A (REF.)

Figure 10-4. Interphone (AN/AIC-10) Circuit (Sheet 7 of 8)  
(Airplanes 52-1091, 52-1096 to 52-1155 Incl)

Changed 15 January 1965

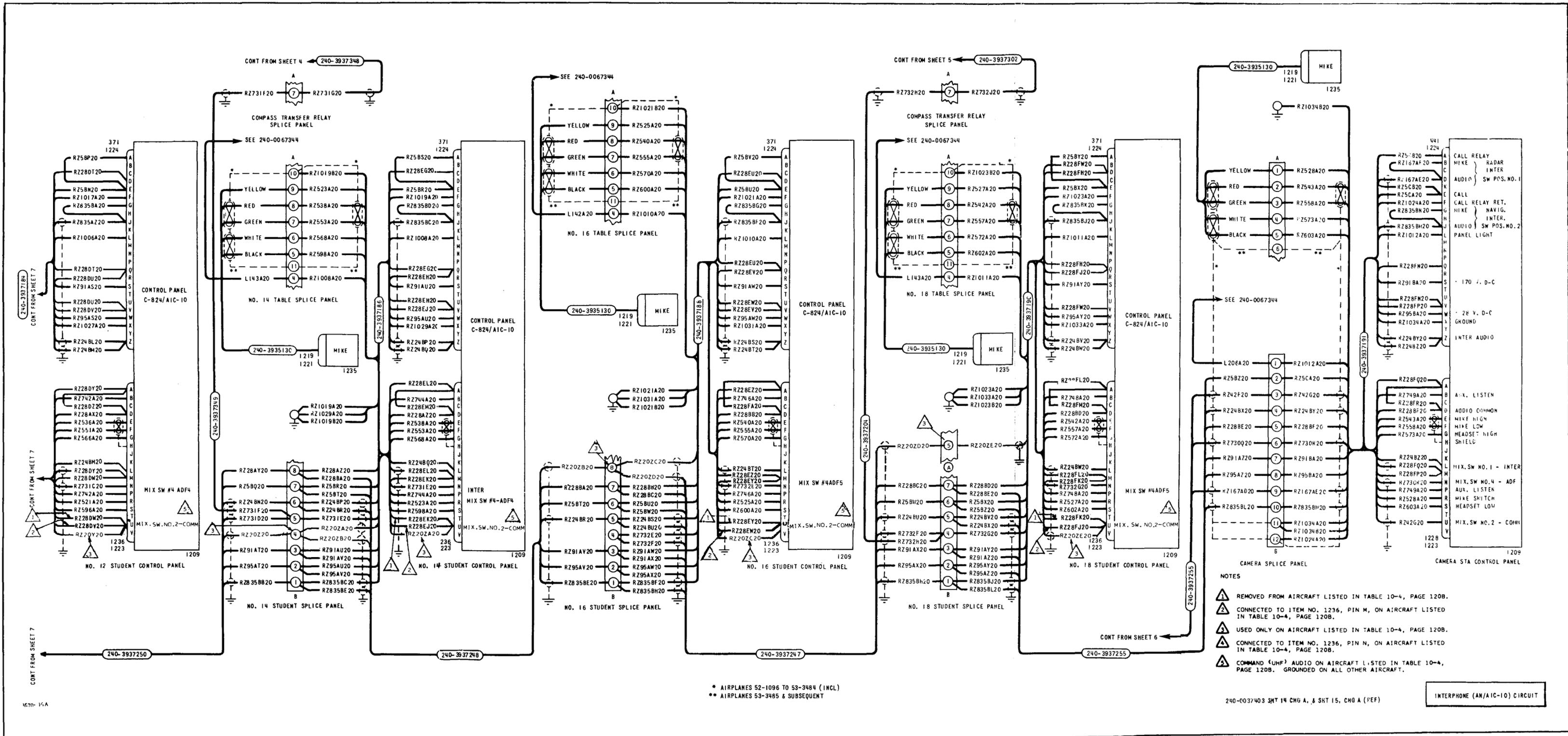


Figure 10-4. Interphone (AN/AIC-10) Circuit (Sheet 8 of 8) (Aircraft 52-1091, 52-1096 to 52-1155 Incl)

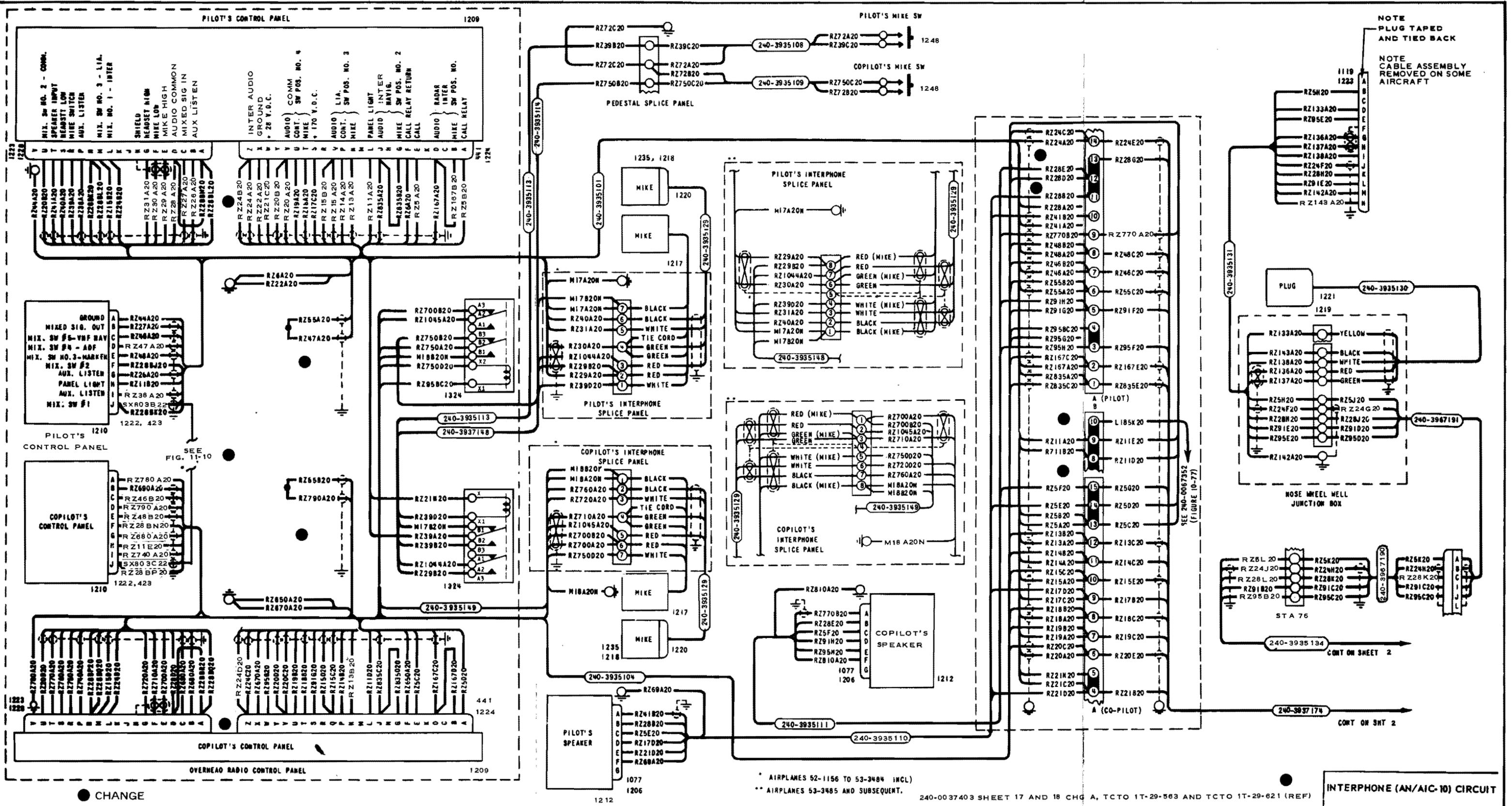
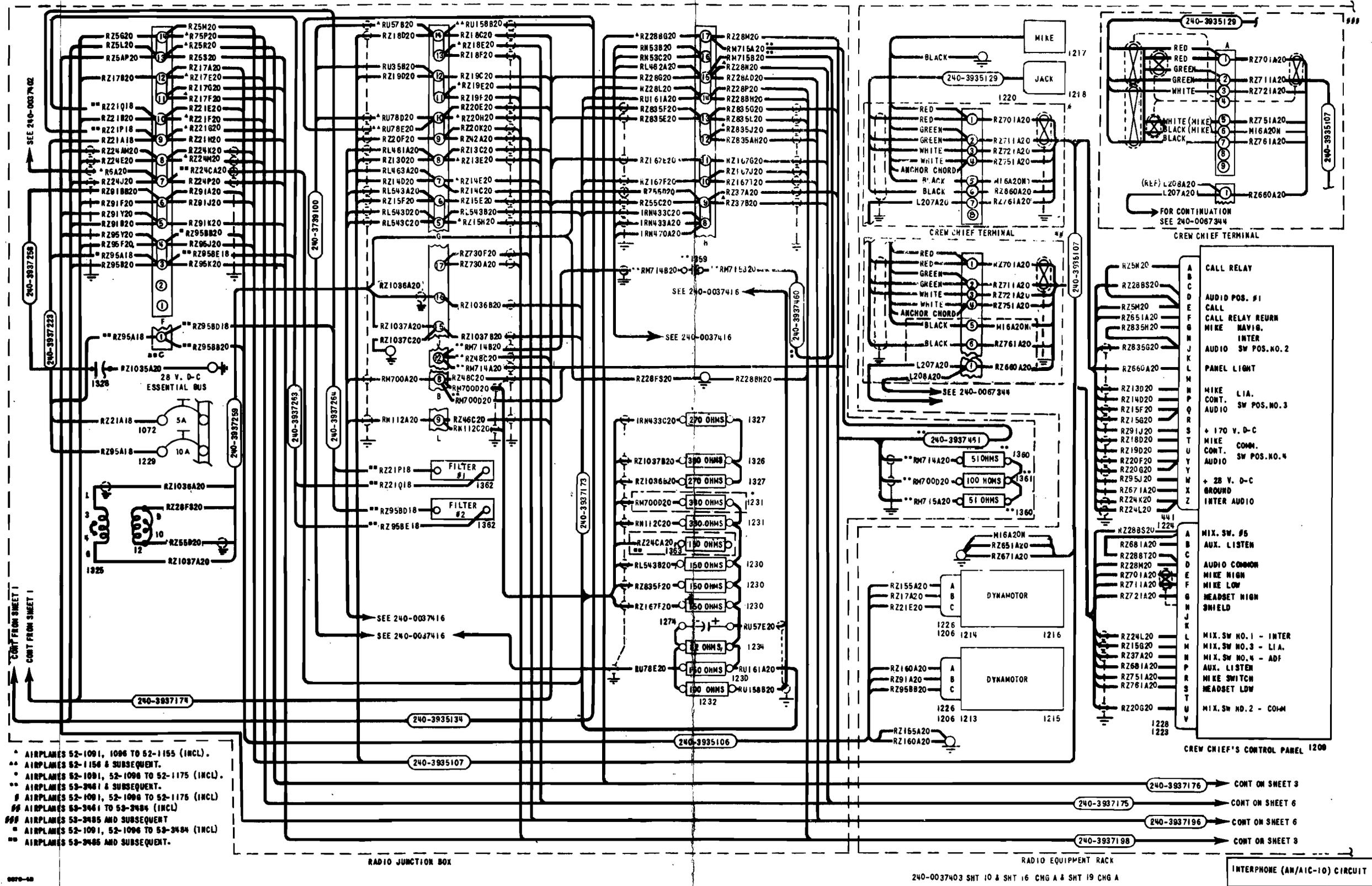
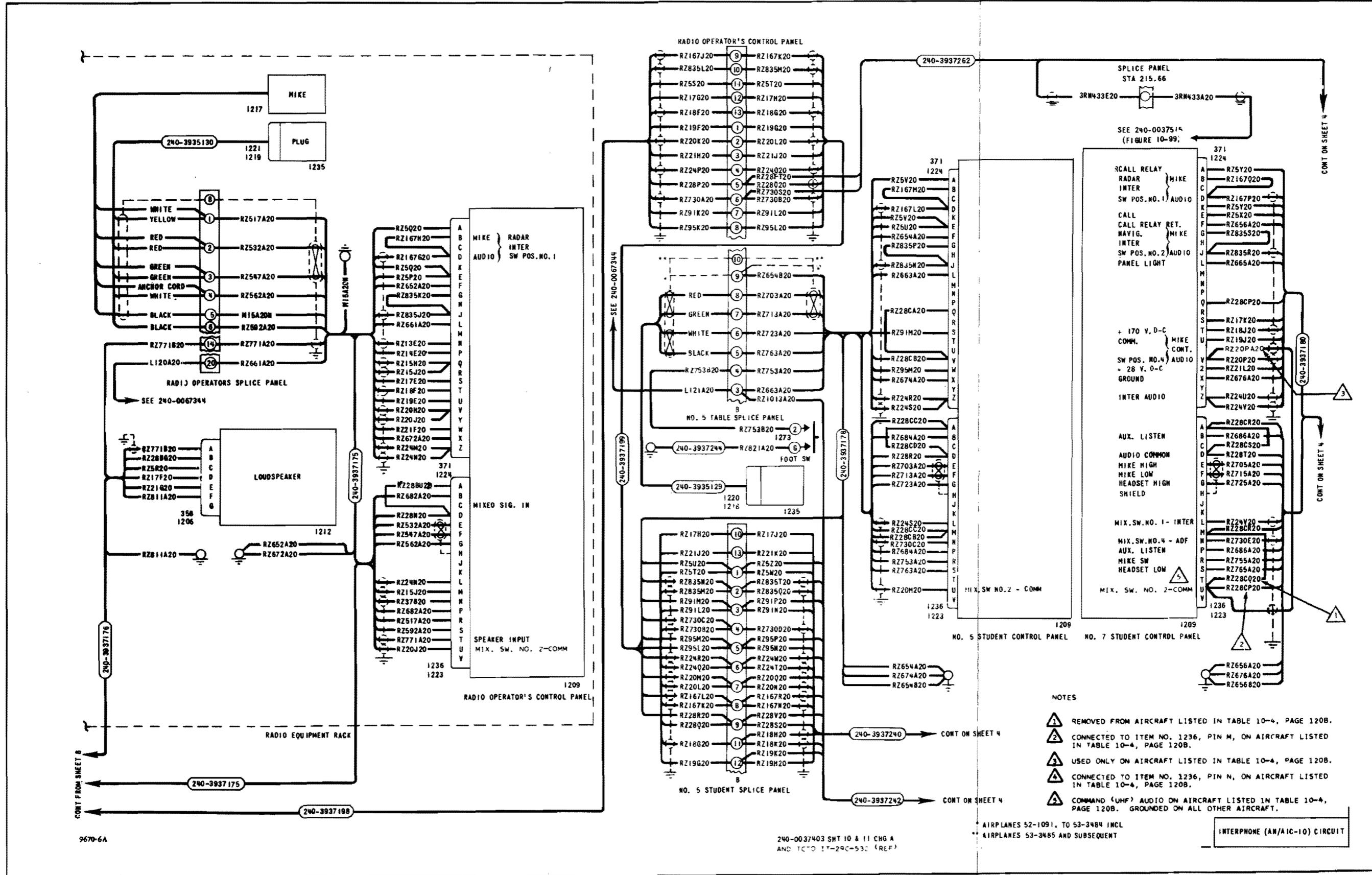


Figure 10-5. Interphone (AN/AIC-10) Circuit (Sheet 1 of 8) (Aircraft 52-1156 and Subsequent)



- \* AIRPLANES 52-1001, 1006 TO 52-1155 (INCL).
- \*\* AIRPLANES 52-1156 & SUBSEQUENT.
- \*\*\* AIRPLANES 52-1001, 52-1006 TO 52-1175 (INCL).
- ◆ AIRPLANES 53-3441 & SUBSEQUENT.
- ◆ AIRPLANES 52-1001, 52-1006 TO 52-1175 (INCL)
- ◆ AIRPLANES 53-3441 TO 53-3484 (INCL)
- ◆ AIRPLANES 53-3485 AND SUBSEQUENT
- ◆ AIRPLANES 52-1001, 52-1006 TO 53-3484 (INCL)
- ◆ AIRPLANES 53-3485 AND SUBSEQUENT.

Figure 10-5. Interphone (AN/AIC-10) Circuit (Sheet 2 of 8)  
(Airplanes 52-1156 and Subsequent)



9670-6A

240-0037403 SHT 10 & 11 CHG A AND T.O. 1T-29C-530 (REF)

Figure 10-5. Interphone (AN/AIC-10) Circuit (Sheet 3 of 8) (Airplanes 52-1156 and Subsequent)

Changed 15 January 1965

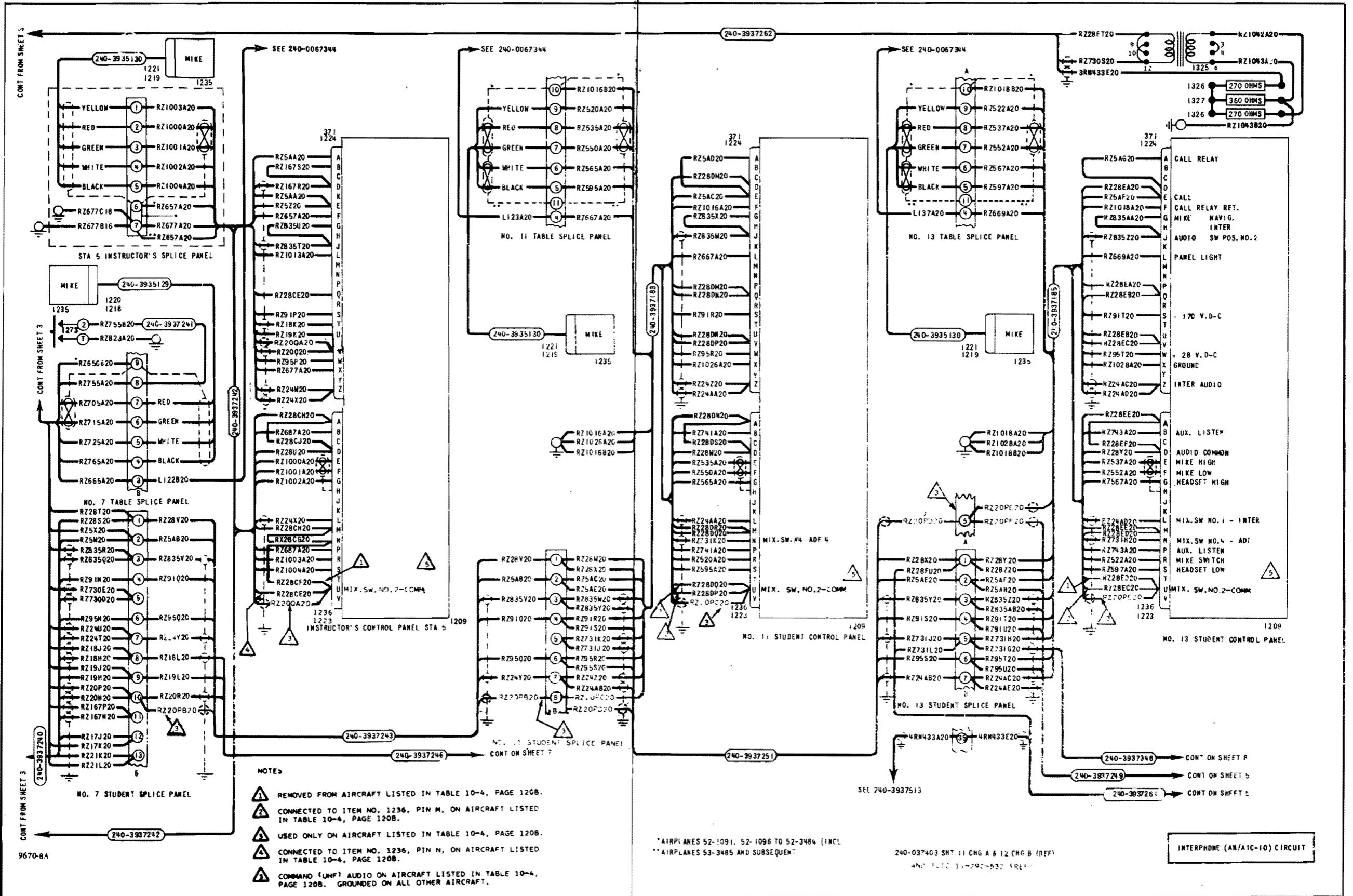


Figure 10-5. Interphone (AN/AIC-10) Circuit (Sheet 4 of 8) (Airplanes 52-1156 and Subsequent)

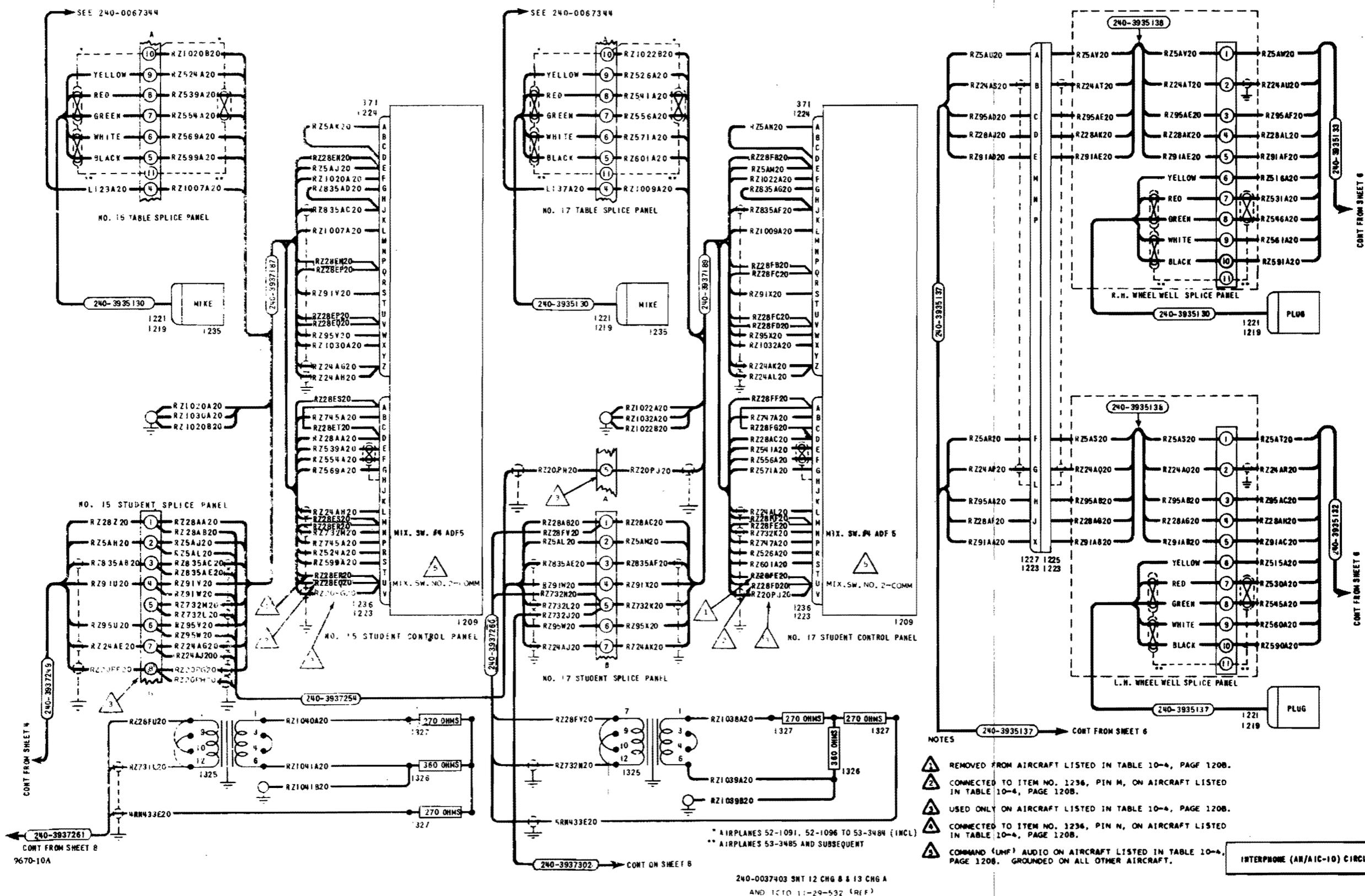


Figure 10-5. Interphone (AN/AIC-10) Circuit (Sheet 5 of 8) (Airplanes 52-1156 and Subsequent)

Changed 15 January 1965



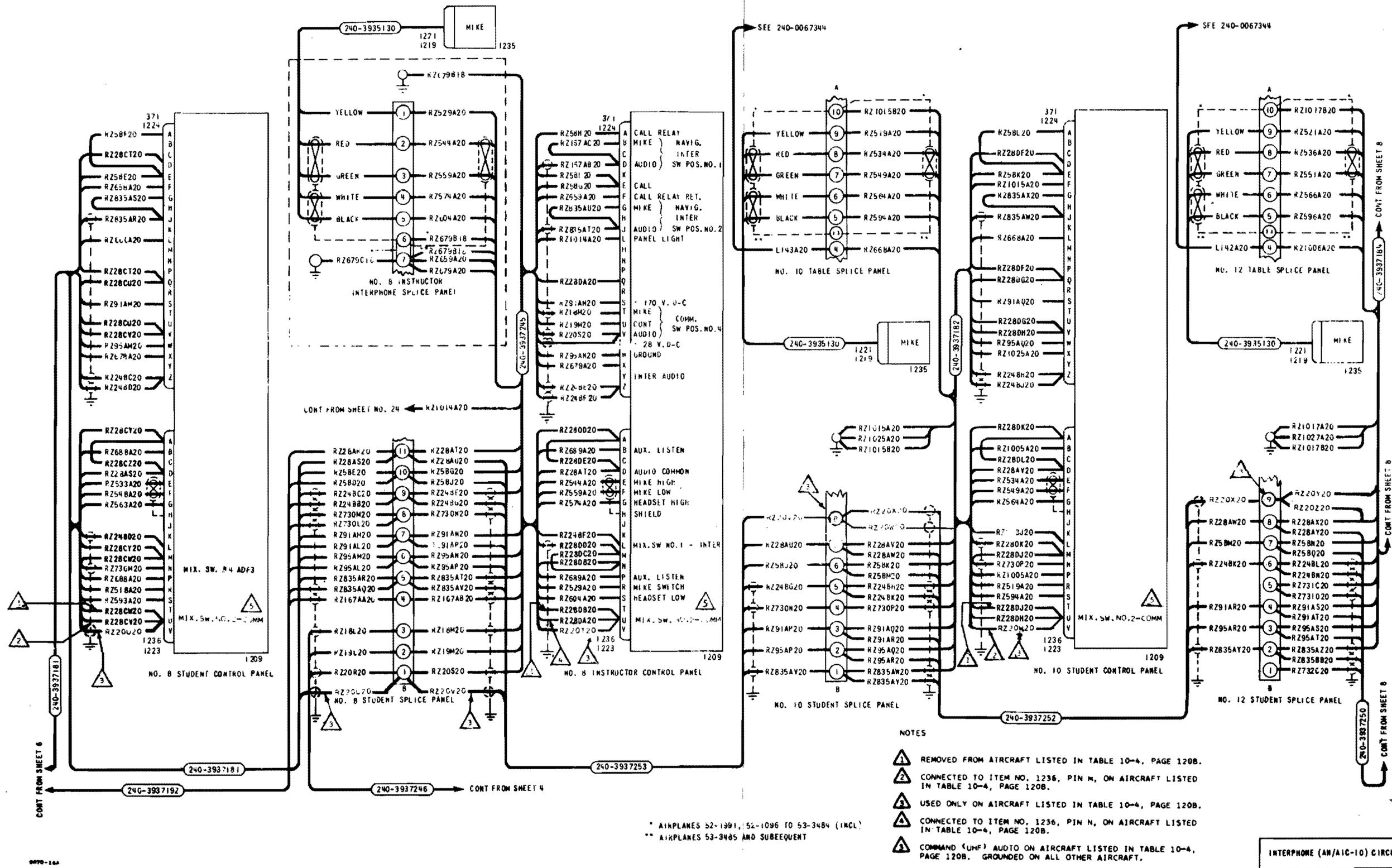
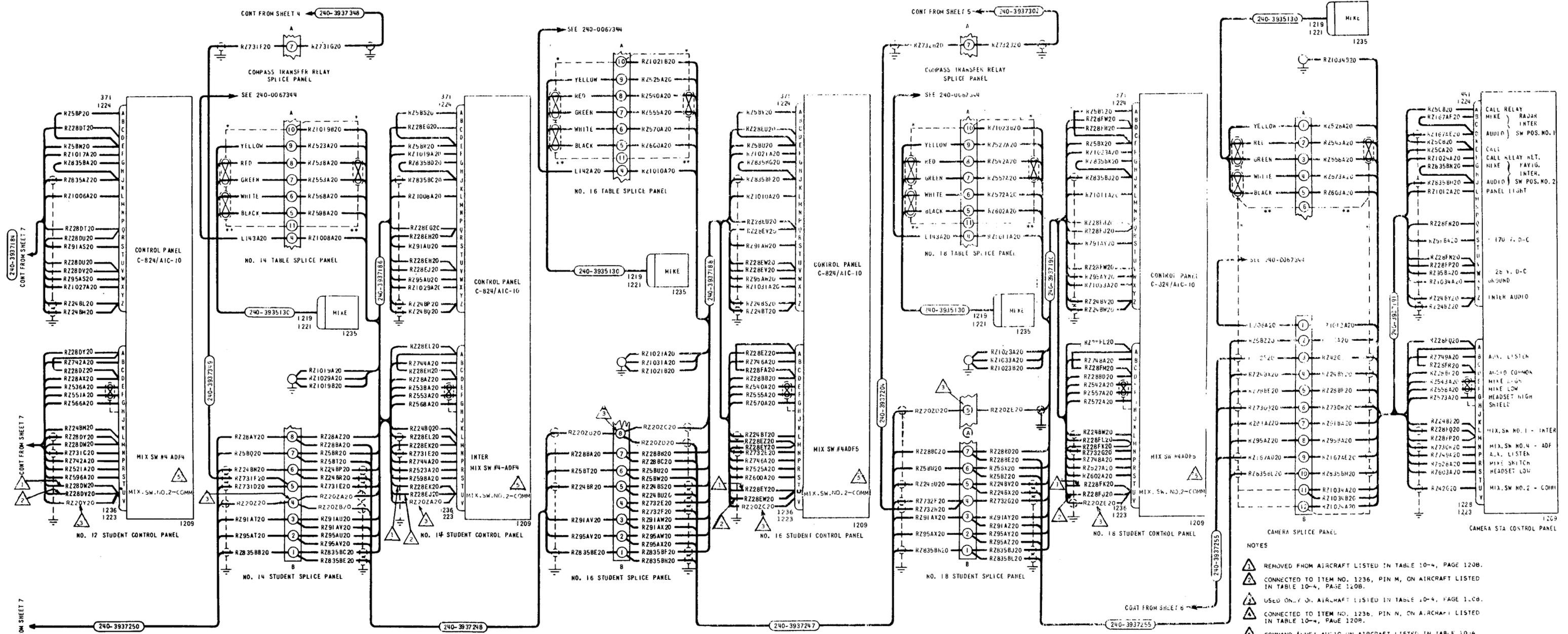


Figure 10-5. Interphone (AN/AIC-10) Circuit (Sheet 7 of 8) (Airplanes 52-1156 and Subsequent)

Changed 15 January 1965



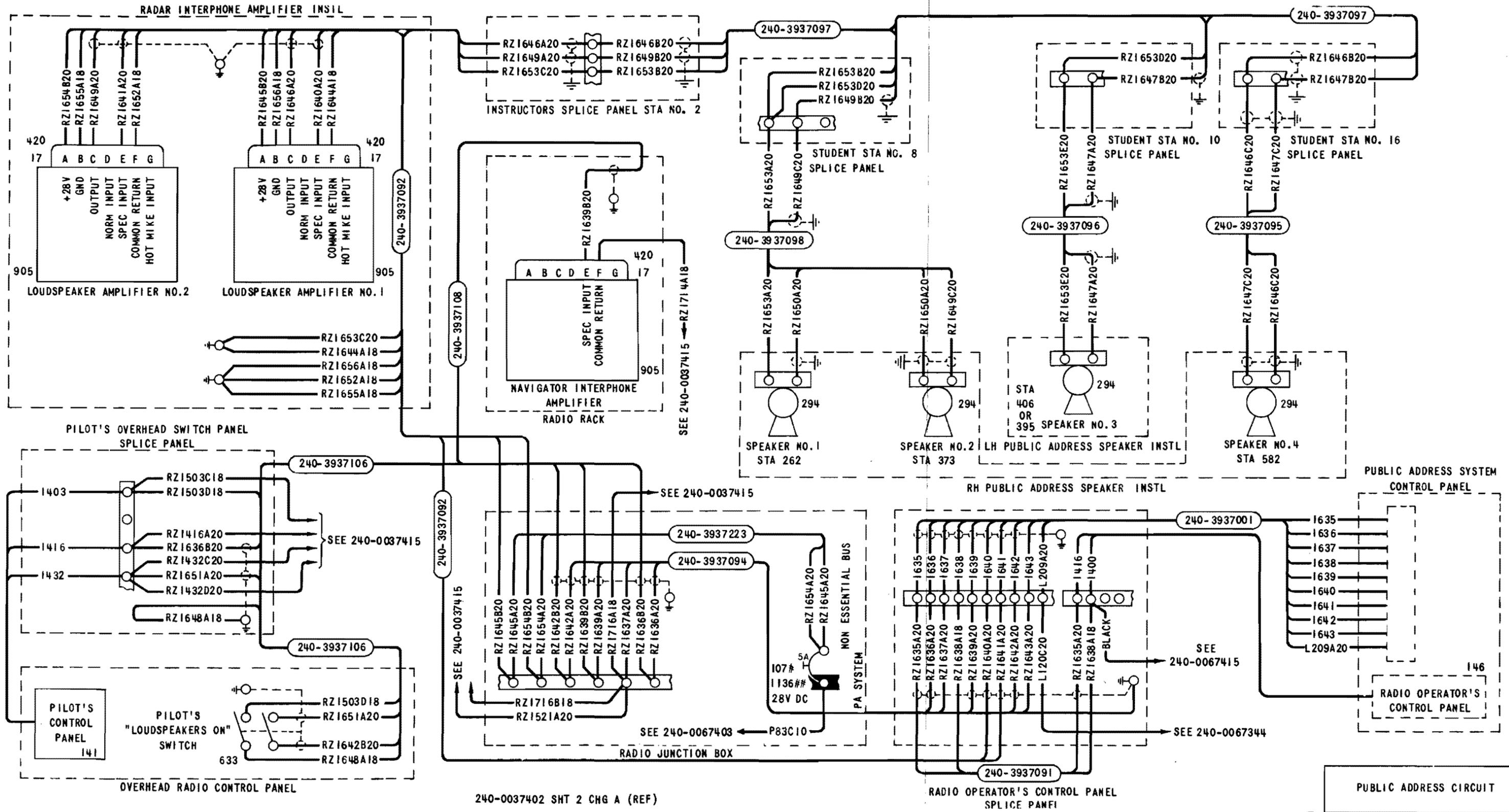
- NOTES
- ⚠ REMOVED FROM AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - ⚡ CONNECTED TO ITEM NO. 1236, PIN M, ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - ⚡ USED ONLY ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - ⚡ CONNECTED TO ITEM NO. 1236, PIN N, ON AIRCRAFT LISTED IN TABLE 10-4, PAGE 120B.
  - ⚡ COMMAND SWITCH AUDIO ON AIRCRAFT LISTED IN TABLE 10-4 PAGE 120B. GROUNDED ON ALL OTHER AIRCRAFT.

\* AIRPLANES 52-1096 TO 53-3484 (INCL)  
 \*\* AIRPLANES 53-3485 & SUBSEQUENT

240-0037403 SH 14 CHG A. & SH 15, CHG A

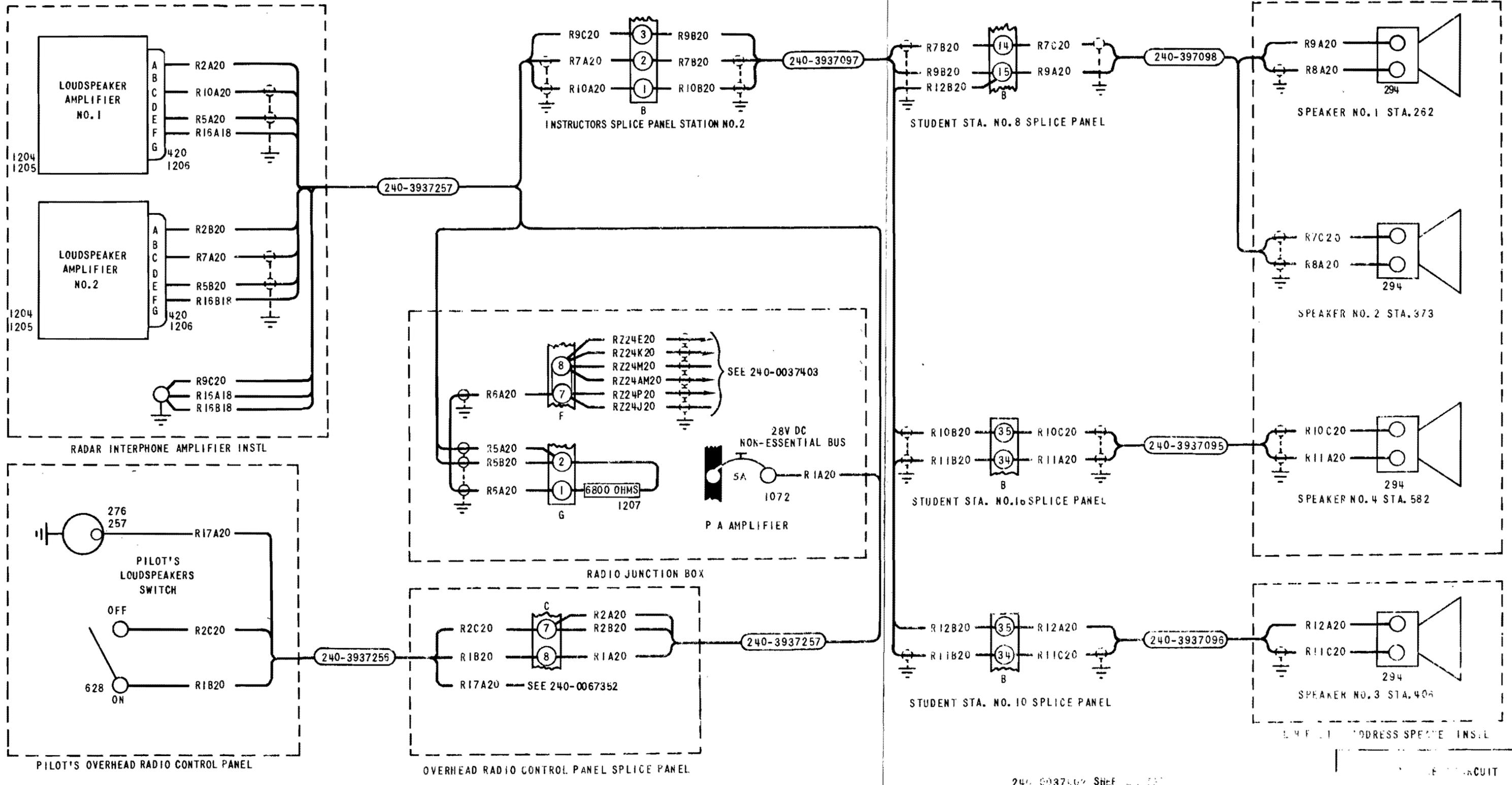
INTERPHONE (AN/AIC-10) CIRCUIT

Figure 10-5. Interphone (AN/AIC-10) Circuit (Sheet 8 of 8)  
 (Airplanes 52-1156 and Subsequent)



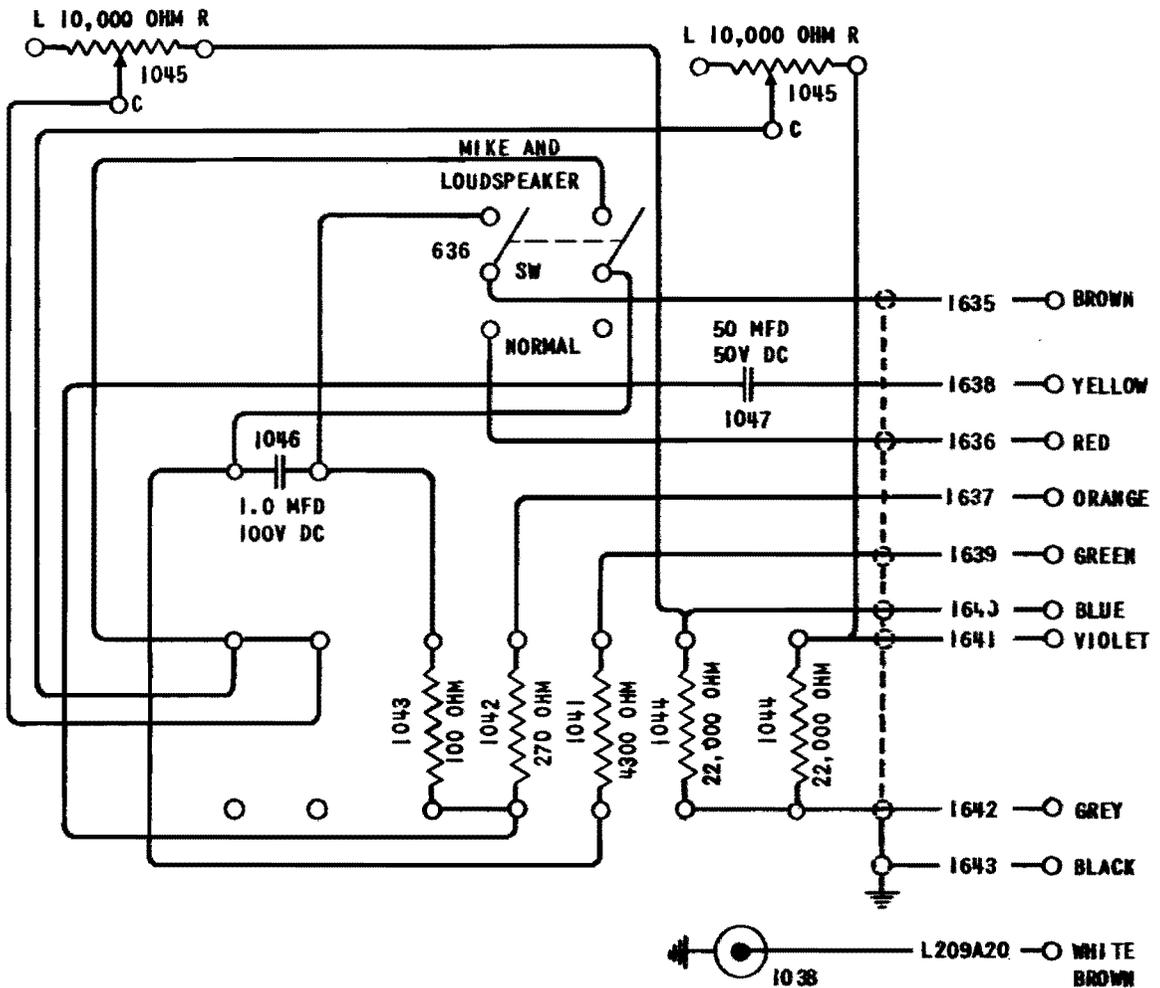
240-0037402 SHT 2 CHG A (REF)

Figure 10-6. Public Address Circuit  
(Airplanes 51-3797 to 51-5143, and 51-5145 to 51-7917 Incl)



240-0037409 SHEF

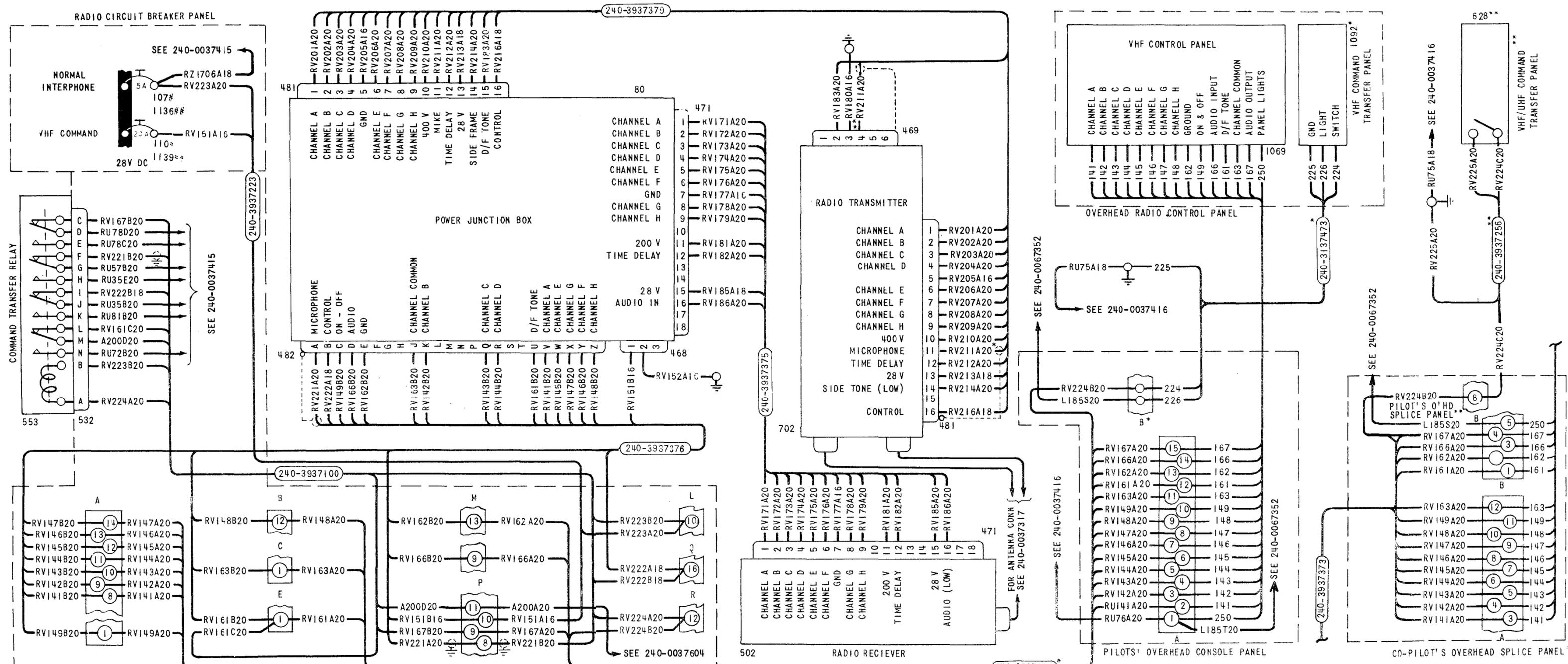
Figure 10-7. Public Address Circuit  
(Aircraft 51-5144, 52-1091 and Subsequent)



240-39 37001 SHEET 2 CHG C (REF)

PUBLIC ADDRESS CONTROL PANEL,  
TYPICAL

Figure 10-8. Public Address Control Panel, Typical



9874-2A

RADIO JUNCTION BOX

240-0037416 SHT 5 CHG S AND SHT 6 CHG C (REF)

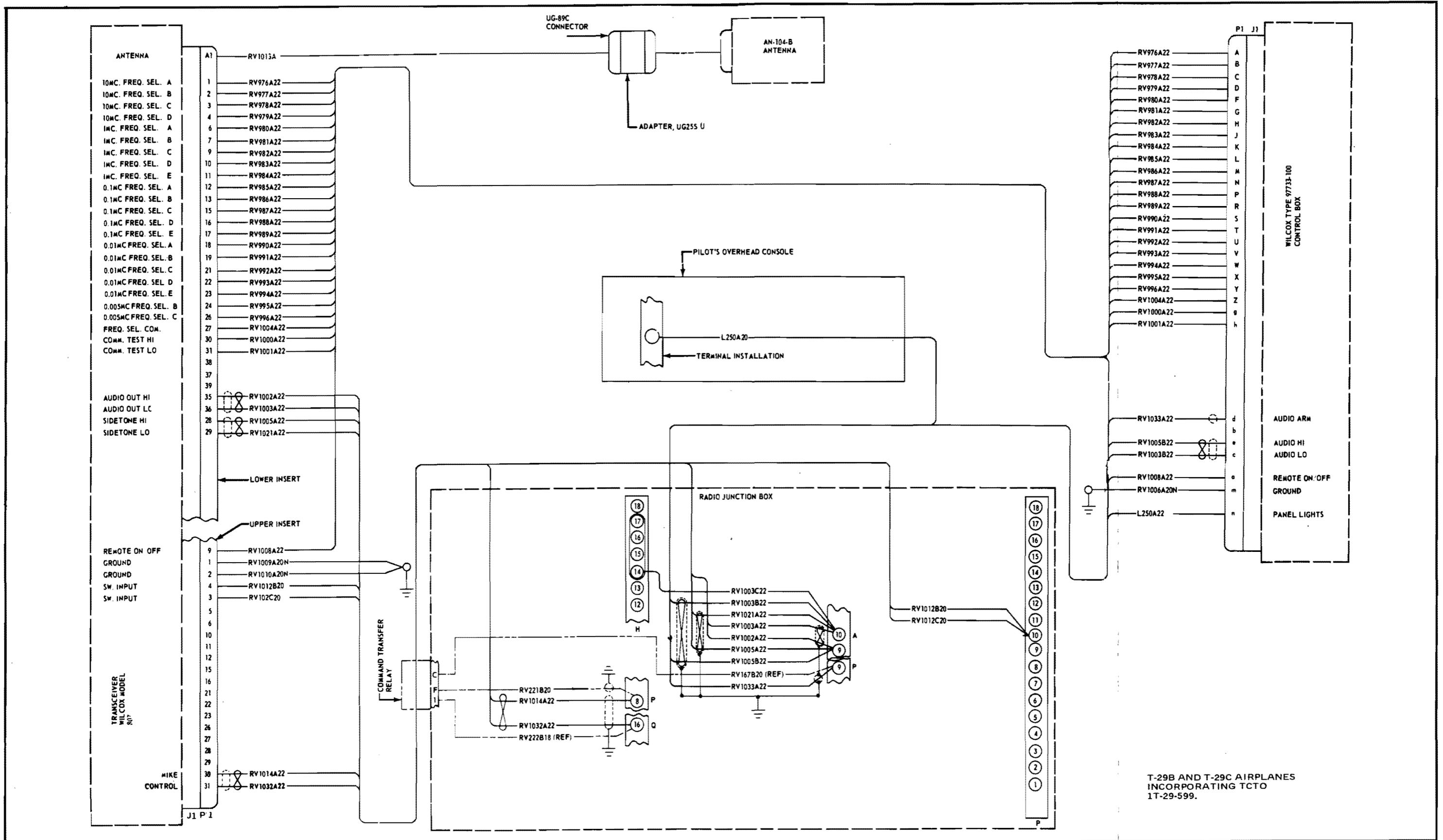
NOTES:  
 # AIRPLANES 51-3797 TO 51-5123 (INCL)  
 ## AIRPLANES 51-5124 AND SUBSEQUENT.

\* CONFIGURATION FOR AIRPLANES 51-3797 TO 51-5143 AND 51-5145 TO 51-7917 (INCL).

\*\* CONFIGURATION FOR AIRPLANES 51-5144, 52-1091 AND SUBSEQUENT.

RADIO SET AN/ARC-3 (VHF COMMAND) CIRCUIT

Figure 10-9. Radio Set AN ARC-3 (VHF Command) Circuit (Airplanes 51-3797 to 51-7917 Incl)



T-29B AND T-29C AIRPLANES  
INCORPORATING TCTO  
1T-29-599.

Figure 10-9A. Wilcox 807 VHF Communication Transceiver Wiring Diagram

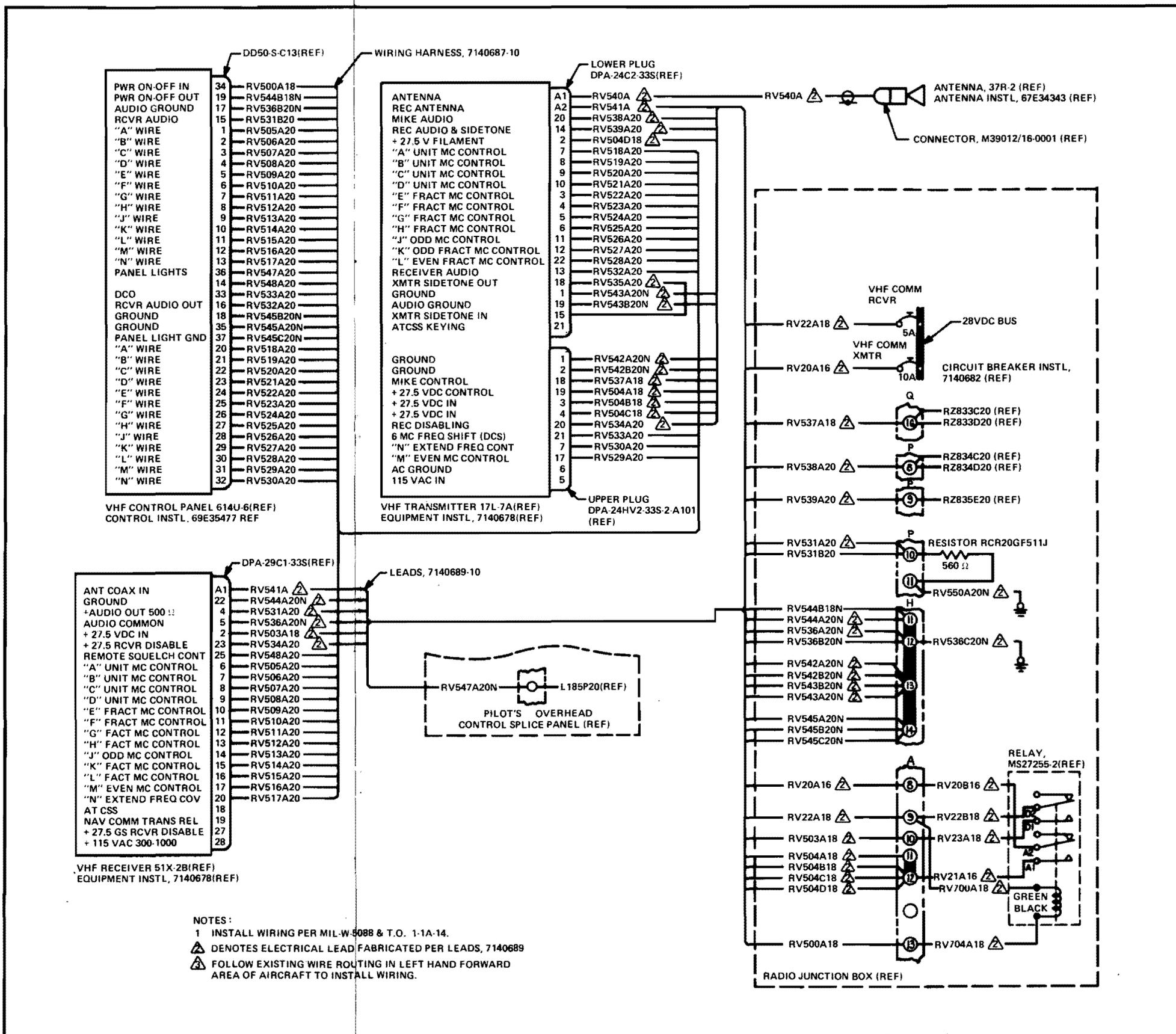
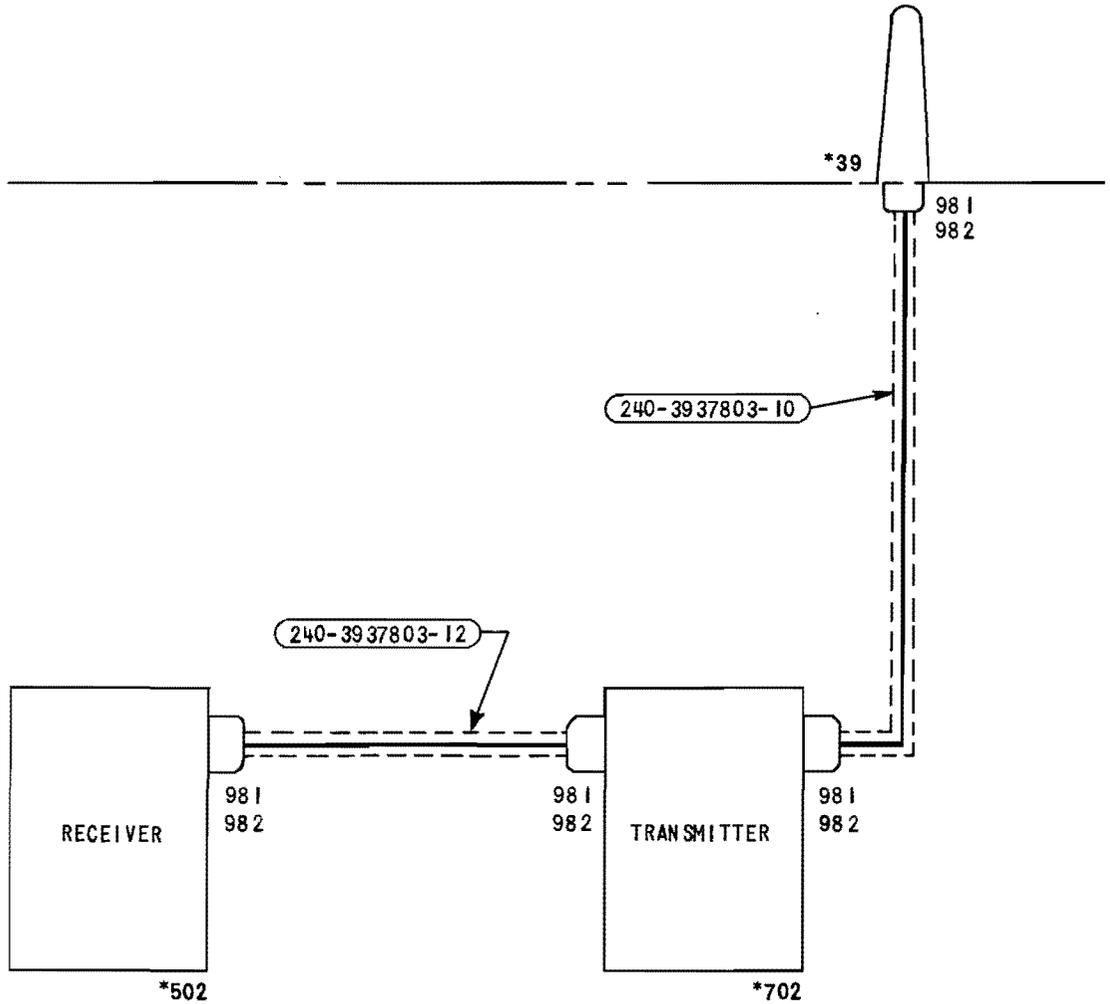


Figure 10-9B. Collins VHF 101 Radio Communications System



\* AIRPLANES 51-3797 TO  
51-7917 (INCL)

RADIO SET AN/ARC-3  
(VHF COMMAND) ANTENNA DIAGRAM

9676-2B

240-0037317 SHEET 2 CHG Z (REF)

Figure 10-10. Radio Set AN/ARC-3 (VHF Command) Antenna Diagram  
(Airplanes 51-3797 to 52-1155 Incl)

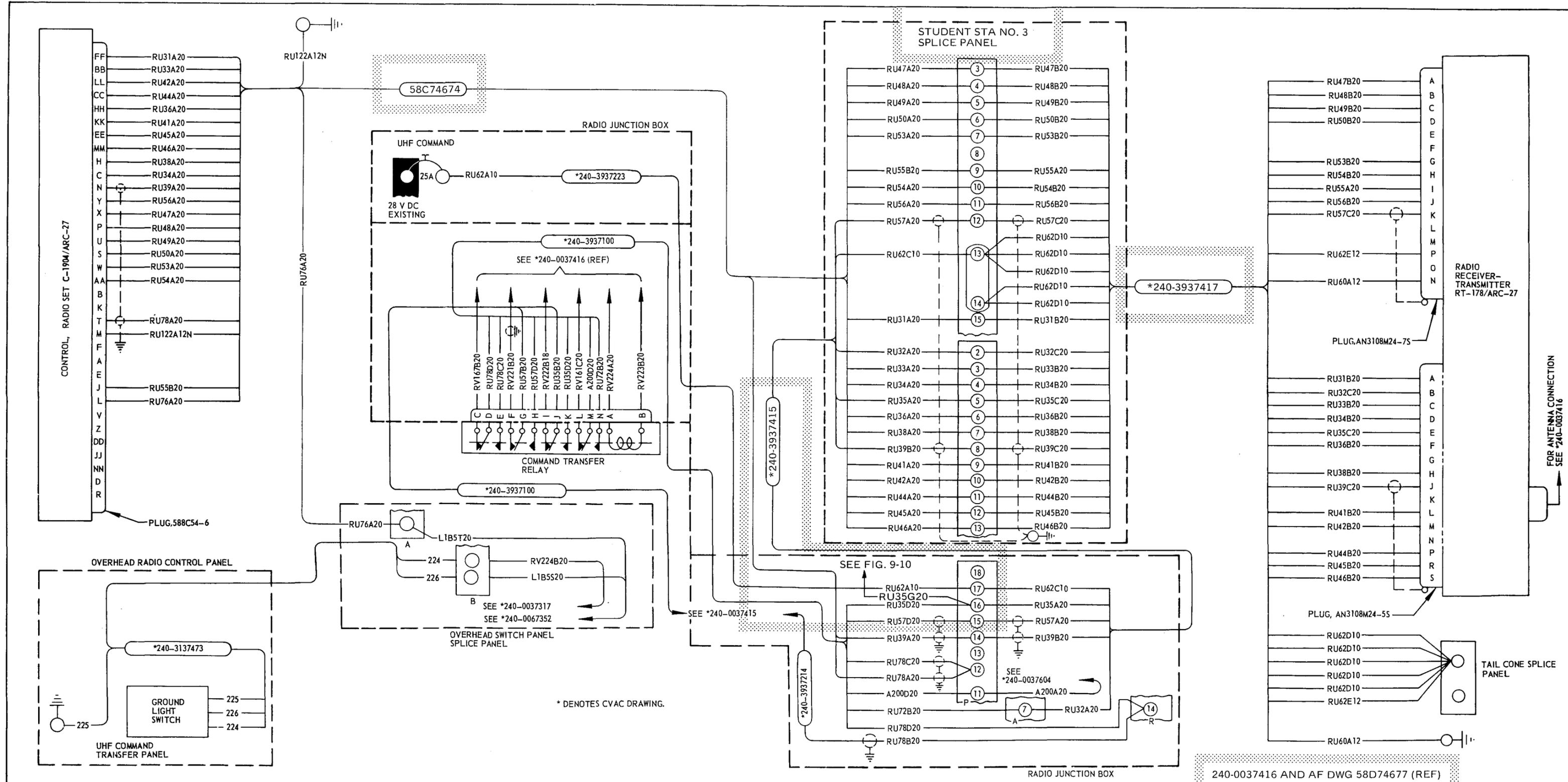
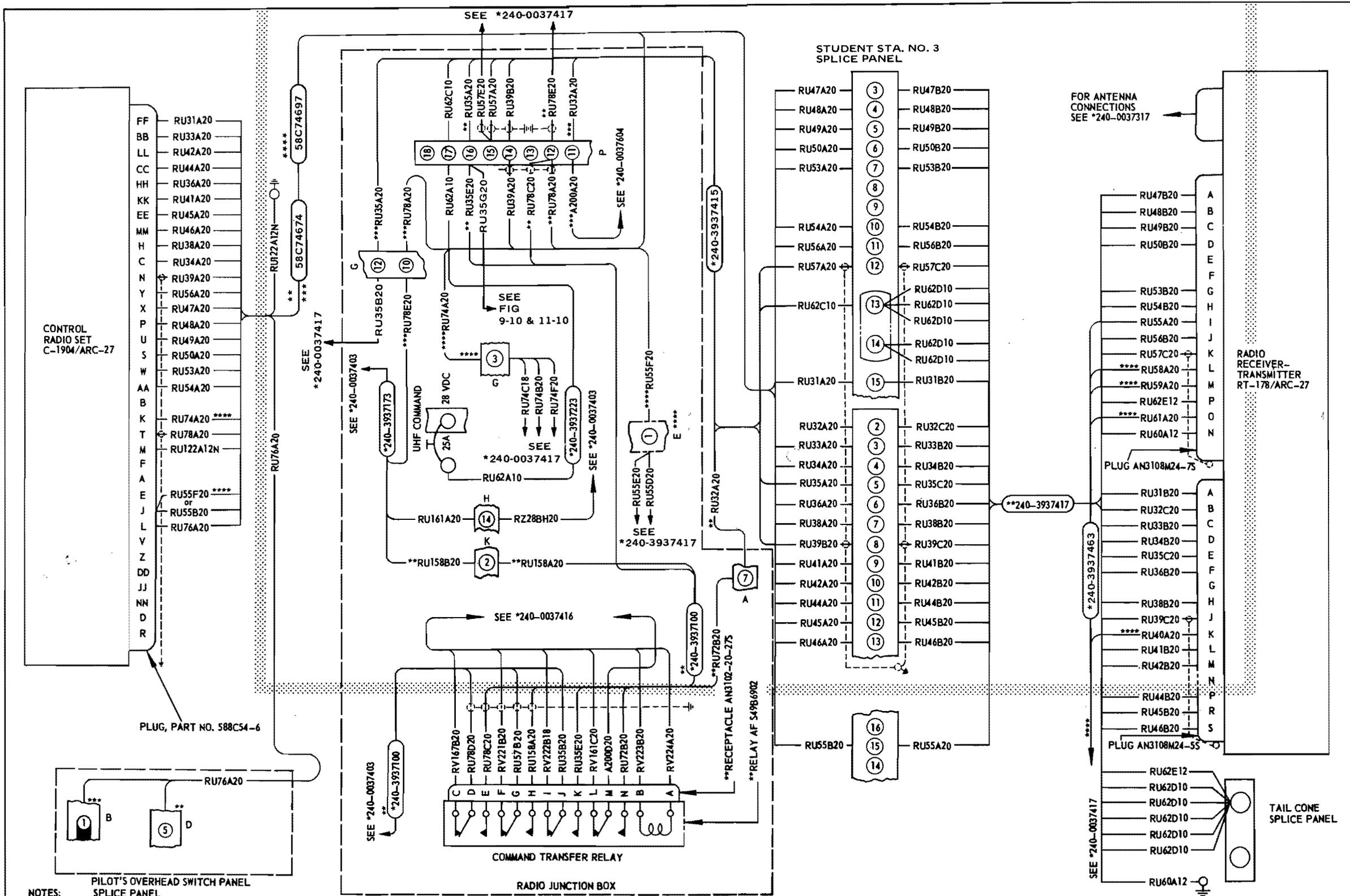


Figure 10-11. T-29B Aircraft Wiring Diagram - Radio Set AN/ARC-27  
(Airplanes 51-3797 to 51-5143 and 51-5145 to 51-7917 INCL)



- NOTES:
1. \* DENOTES CVAC DRAWING
  2. \*\* DENOTES AIRPLANES 51-5144 AND 52-1091 TO 52-1155 (INCL)
  3. \*\*\* DENOTES AIRPLANES 52-1156 AND SUBSEQUENT
  4. \*\*\*\* DENOTES AIRPLANES 53-3461 AND SUBSEQUENT

240-0037416 AND 58D74678 CHG A (REF)

Figure 10-12. T-29B and T-29C Aircraft Wiring Diagram - Radio Set AN/ARC-27 (Airplanes 51-5144 and 52-1091 to 53-3494 INCL)

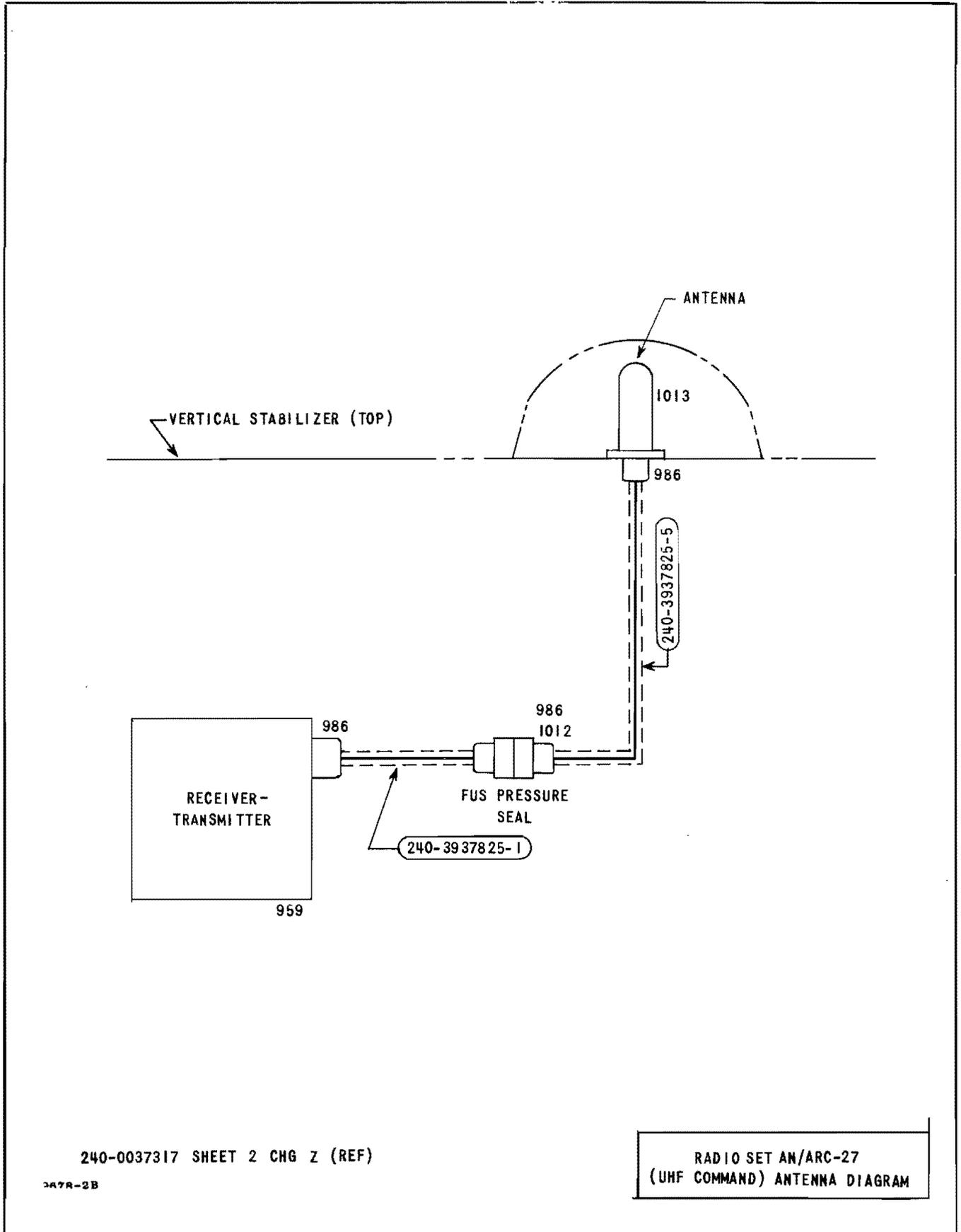


Figure 10-13. Radio Set AN/ARC-27 (UHF Command) Antenna Diagram

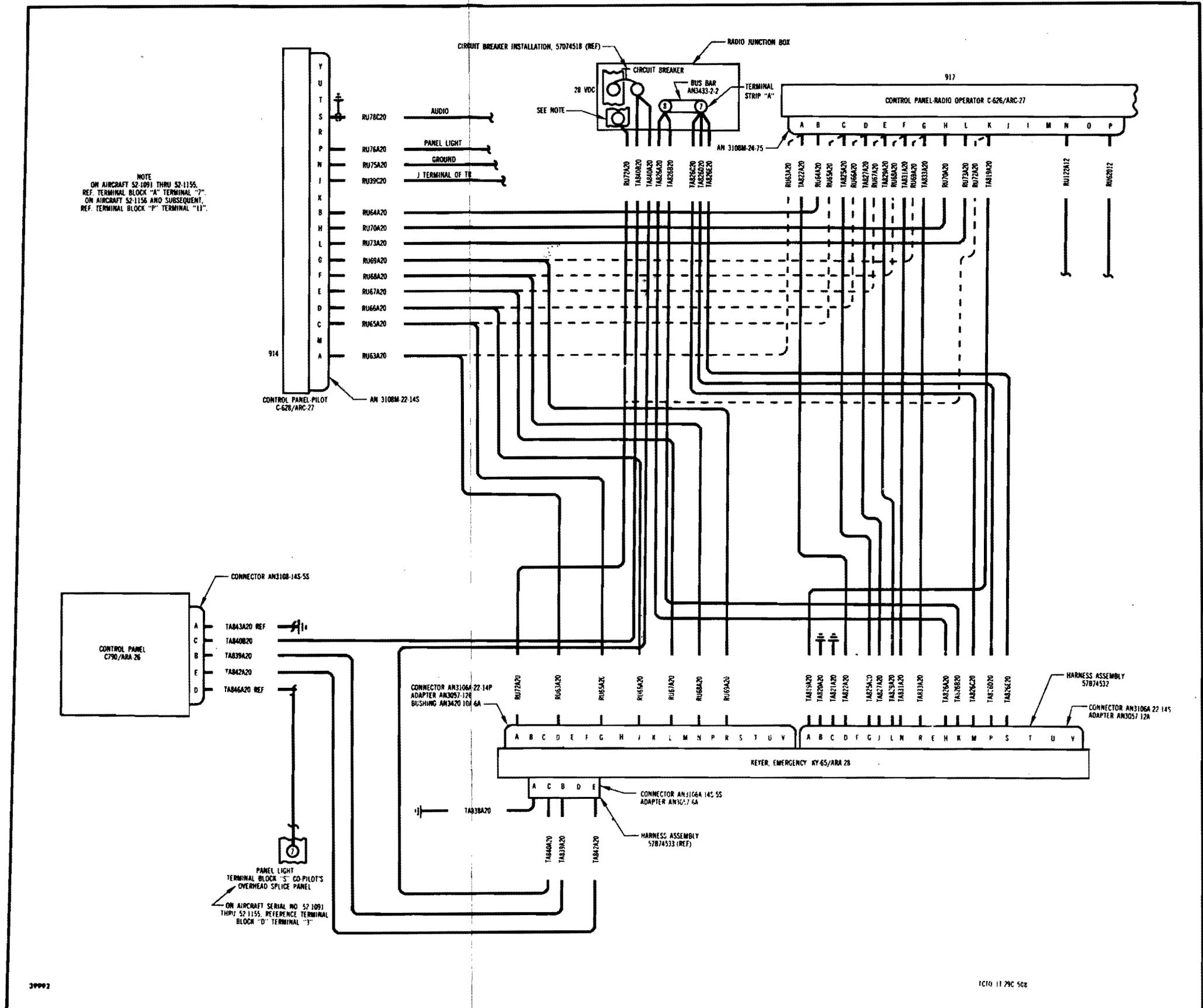


Figure 10-13A. Radio Set AN/ARC-27 (UHF Command) Modification

Changed 20 September 1960



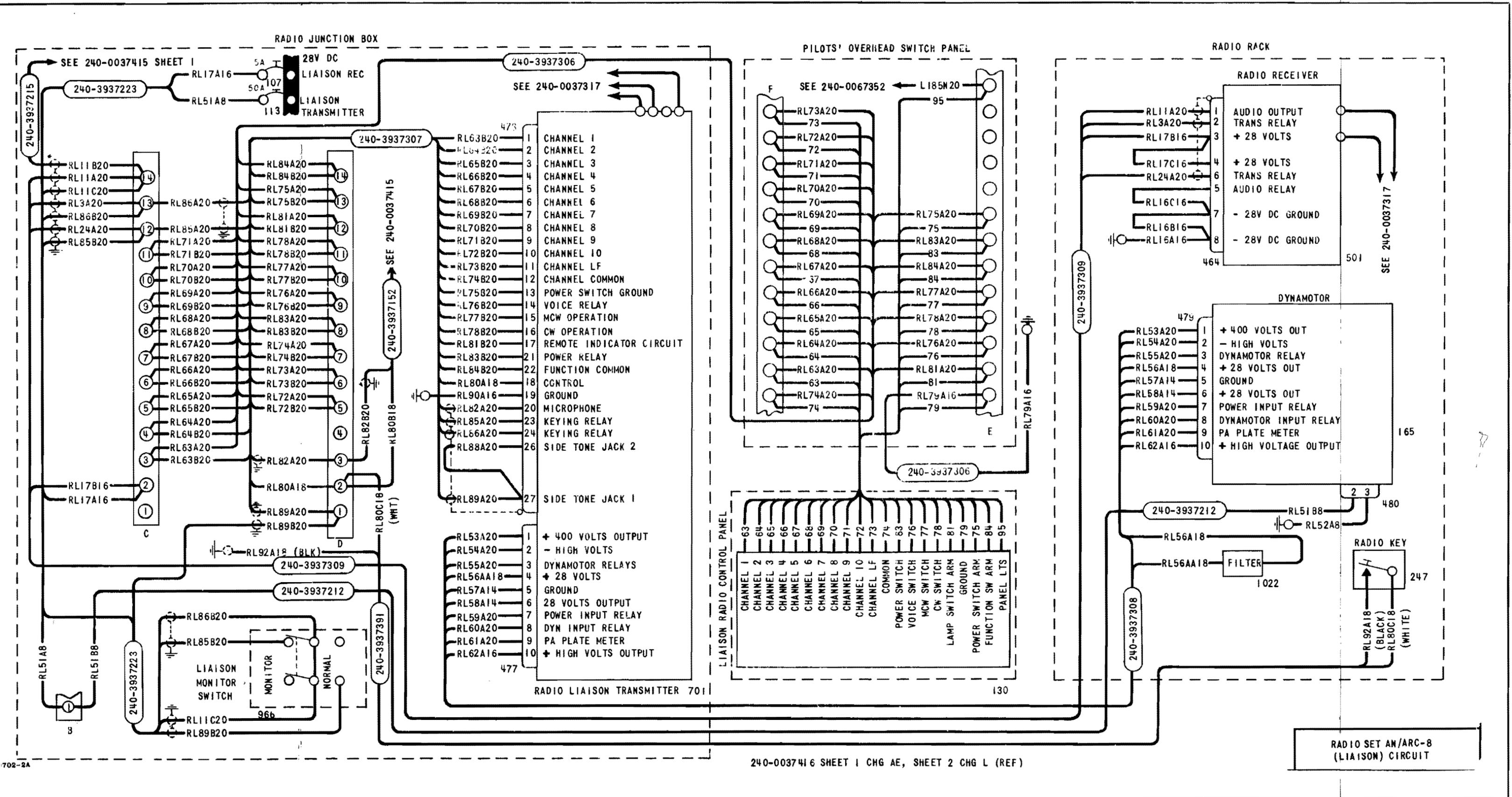
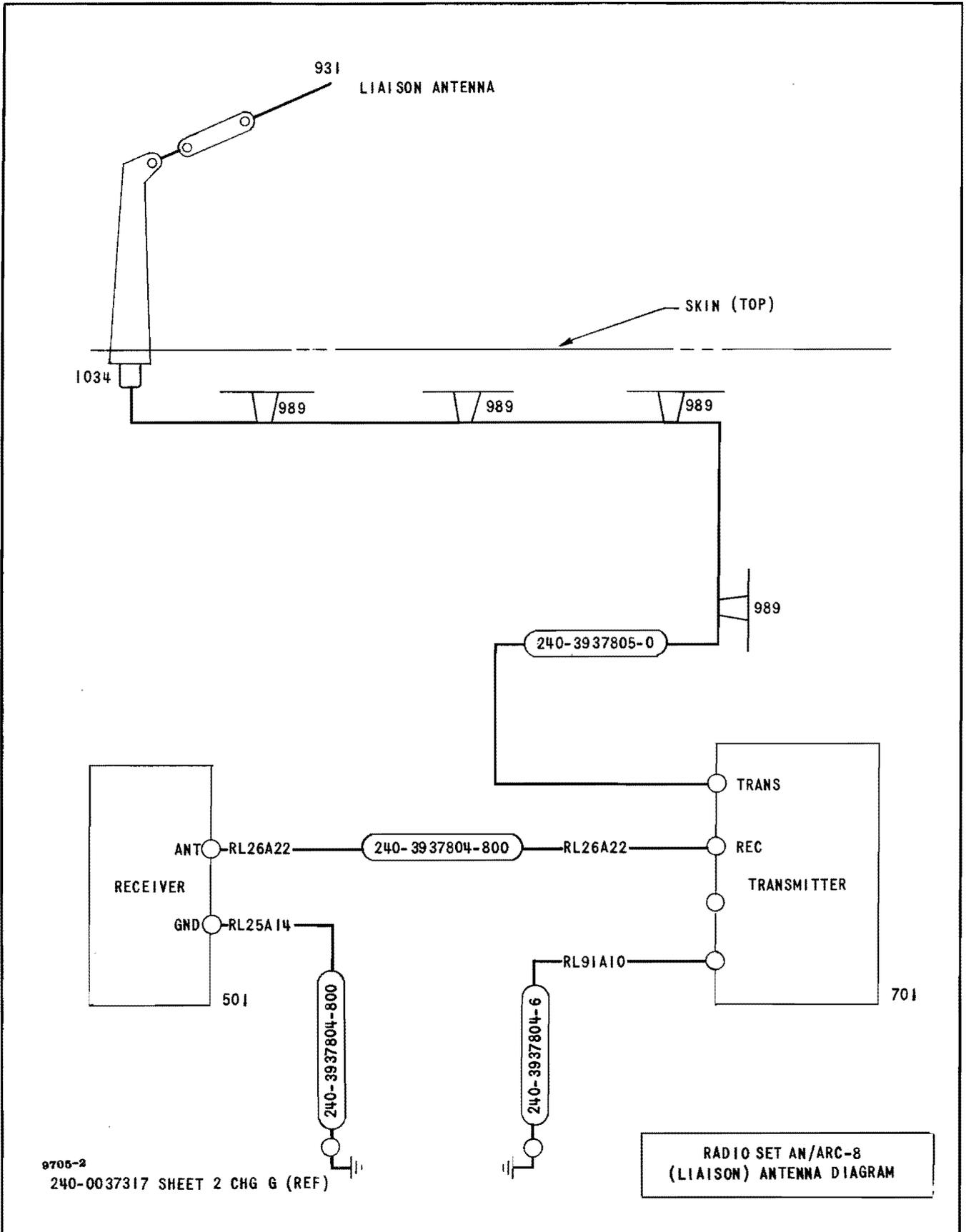


Figure 10-14. Radio Set AN/ARC-8 (Liaison) Circuit (Airplanes 51-3797 to 51-5123 Incl)







9705-2  
240-0037317 SHEET 2 CHG G (REF)

Figure 10-16. Radio Set AN/ARC-8 (Liaison) Antenna Diagram  
(Airplanes 51-3797 to 51-5143 Incl, and 51-5145 to 51-7917 Incl)

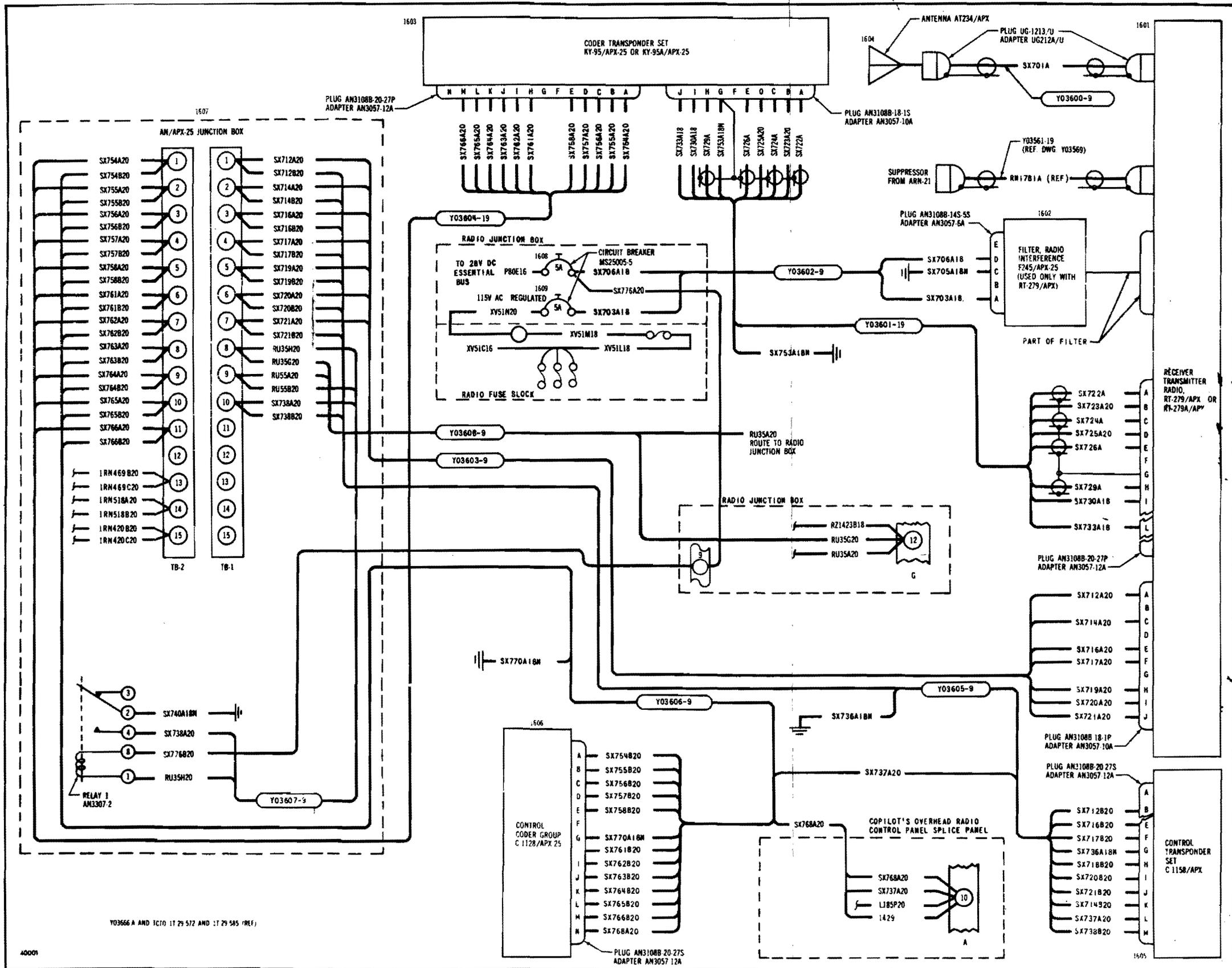


Figure 10-21. Transponder Set (AN/APX-25) Circuit

(T-29B Serial No. 51-3797 to 51-5123)

Changed 20 September 1960



## Section XI

### T-29D WIRING DATA

<i>Contents</i>	<i>Page</i>
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Cross Reference List of Wiring Diagrams . . . . .	175
List of Equipment . . . . .	176
Wiring Diagrams . . . . .	179

#### 11-1. ALPHABETICAL INDEX OF WIRING DIAGRAMS.

TITLE	FIGURE NO.	APPLICABILITY SERIAL NO.
Interphone (AN/AIC-10) Circuit	11-1	52-1176 to 52-9980 incl
	11-2	53-3495 to 53-3513 incl
Public Address Circuit	11-3	53-3514 and subsequent
	11-9	52-5817; 52-5821 52-5829; 52-5835 53-3512; 53-3534 53-3535; 53-3536
Radio Set AN/APX-25 (Transponder) Circuit	11-7	All
Radio Set AN/APX-72 (Transponder) Circuit	11-10	All
Radio Set AN/ARC-27 (UHF Command) Circuit	11-4	All
Radio Set, Wilcox 807A (VHF Communications) Circuit	11-8	52-5815 thru 52-5817 52-5821; 52-5828 52-5829; 52-5835 52-5836; 53-3512 53-3534 thru 53-3536 53-3542, 53-3545

#### 11-2. CROSS REFERENCE LIST OF WIRING DIAGRAMS.

CONVAIR DRAWING NO.	TITLE	FIGURE NO.
240-0035300	Radio Set AN/ARN-12 (Marker Beacon) Circuit	T.O. 1T-29A-2-12
240-0035303	Radio Set AN/ARN-16 (Pilot's Compass) Circuit	T.O. 1T-29A-2-12
240-0035305	Radar Set AN/APN-70 (Loran) Circuit	T.O. 1T-29A-2-12
240-0035306	Radio Set AN/ARN-14 (VHF Navigation) Circuit	T.O. 1T-29A-2-12
240-0035309	Radio Set AN/ARA-25 (Direction Finder) Circuit	T.O. 1T-29A-2-12
240-0035402	Radio Set AN/ARC-27 (UHF Command) Circuit	11-4
240-0035404	Interphone (AN/AIC-10) Circuit	11-1, 11-2, and 11-3
240-0035612	Tone Bomb Scoring Circuit	T.O. 1T-29A-2-13
240-0065352	Overhead Switch Panel Lights Circuit	T.O. 1T-29D-2-14
240-0065445	Interphone Panel Lights Circuit	T.O. 1T-29D-2-14
None	Radio Set AN/APX-25 (Transponder) Circuit	11-7
	Radio Set AN/APX-72 (Transponder) Circuit	11-10

## 11-3. LIST OF EQUIPMENT.

ITEM NO.	NAME OF PART	MANUFACTURER	TYPE, MODEL, OR PART NO.
5	Actuator	Bendix	LM-108-451050
9	Adapter	.....	AN3057-3A
11	Adapter	.....	AN3057-6A
13	Adapter	.....	AN3057-8A
15	Adapter	.....	AN3057-10A
16	Adapter	.....	AN3057-12A
17	Adapter	.....	AN3057-16A
20	Adapter	.....	UG-27B/U
42	Antenna Shorting Relay	.....	RE-132/ARC
62	Cable	.....	RG-8A/U
78	Circuit Breaker	.....	AF49B678-5
79	Circuit Breaker	.....	AF49B6768-10
80	Circuit Breaker	.....	AF49B6768-15
81	Circuit Breaker	.....	AF49B6768-20
82	Circuit Breaker	.....	AF49B678-25
83	Circuit Breaker	.....	AF49B6768-35
96	Command Mast	.....	AT-256/ARC or AT-256A/ARC
128	Control Panel	.....	C-1904/ARC-27
131	<i>Deleted.</i>		
132	Control Panel	.....	C-824/AIC-10
142	Cord	.....	WF-14/U
143	Cord	.....	WM-85/U
154	Dynamotor	.....	DY-76/AIC-10
155	Dynamotor	.....	DY-77/AIC-10
162	Filter	.....	F-90/AIC
166	Foot Switch	.....	SA-47A/AIC
193	Headset	.....	H-70/AIC
194	Headset-Mike	.....	H-78/AIC
247	Jack	.....	UG-160A/A
249	Jack	.....	U-92/U
291	Loudspeaker	.....	LS-184/AIC-10
293	Microphone	.....	M-34/AIC
304	Mounting	.....	MT-1059/U
305	Mounting	.....	MT-1060/U

## 11-3. LIST OF EQUIPMENT (CONT).

ITEM NO.	NAME OF PART	MANUFACTURER	TYPE, MODEL, OR PART NO.
320	Plug	.....	97-3106B-28-426S
321	Plug	.....	97-3106B-32-409P
342	Plug	.....	AN3106-16-9S
357	Plug	.....	AN3106B-14S-5P
364	Plug	.....	AN3106B-16-10S
366	Plug	.....	AN3106B-16S-1S
381	Plug	.....	AN3106B-20-27S
384	Plug	.....	AN3106B-22-14P
385	Plug	.....	AN3106B-22-14S
387	Plug	.....	AN3106B-22-19S
389	Plug	.....	AN3106B-24-6S
390	Plug	.....	AN3106B-24-7S
391	Plug	.....	AN3106B-24-11S
394	Plug	.....	AN3106B-24-28S
407	Plug	.....	AN3106M-8S-1S
414	Plug	.....	AN3106M-28-11S
428	Plug	.....	AN3108B-14S-2S
429	Plug	.....	AN3108B-14S-5S
447	Plug	.....	AN3108B-18-1S
460	Plug	.....	AN3108B-20-27S
465	Plug	.....	AN3108B-22-14S
466	Plug	.....	AN3108B-24-5P
467	Plug	.....	AN3108B-24-5S
469	Plug	.....	AN3108B-24-7S
472	Plug	.....	AN3108B-24-20P
474	Plug	.....	AN3108B-24-28S
506	Plug	.....	UG-88B U
520	Plug	.....	U-94 U
521	Plug	.....	UG-21C U
522	Plug	.....	UG-59A U
539	Radio Set Cont	.....	C-455 ARC
545	Receiver-Transmitter	.....	RT-128 ARC-21
546	Receiver-Transmitter	.....	RT-178 ARC-27
568	Receptacle	.....	AN3100C-8S-1P
582	Receptacle	.....	AN3100C-22-19P
651	Resistor, 150	.....	RC30AE151J
652	Resistor, 330	.....	RC20AE331K
653	Resistor, 560	.....	RC20AE561J
656	Resistor, 82	.....	RC30AE820J
665	Rheostat	.....	AN3155-25-200
668	Rheostat	.....	AN3155-50-200

## 11-3. LIST OF EQUIPMENT (CONT).

ITEM NO.	NAME OF PART	MANUFACTURER	TYPE, MODEL, OR PART NO.
671	Rheostat	Ohmite Mfg Co	RP112FD501KK
740	Switch, Control Wheel	Convair	240-3160902-12
858	Relay	.....	AN3311-1
859	Transformer	Triad	HS-66
861	Resistor, 270 Ohms	Allen-Bradley	GB2715
863	Resistor, 100 Ohms	.....	RC30A101J
864	Capacitor, 40 MFD	Sprague	186-11
875	Relay	.....	RE-120ARA-25
885	Resistor, 51 Ohms	.....	RC21AE510K
886	Resistor, 100 Ohms	.....	RC21AE101K
904	Resistor	.....	RC20BE151K
905	Filter	.....	FA 1209
928	Resistor	Allen-Bradley	GB2715
929	Resistor	Allen-Bradley	GB3615
1601	Receiver-Transmitter—Transponder Set	.....	RT-279/APX
1602	Filter	.....	F-245/APX-25
1603	Coder—Transponder Set	.....	KY-95/APX
1604	Antenna—Transponder Set	.....	AT-234/APX
1605	Control—Transponder Set	.....	C-1158/APX-25
1606	Control—Coder Group	.....	C-1128/APX-25
1607	Junction Box—Transponder Set	.....	
1608	Circuit Breaker	.....	MS25005-5
1609	Circuit Breaker	.....	MS25005-5
1610	Receiver-Transmitter	Wilcox 807	97607-101
1611	Connector	Cannon	DPX2-F40C1P-40C1P-34B-0003
1612	Connector	Cannon	DPX2-F40C1S-40C1S-33B-0003
1613	Connector	.....	UG 88E/U
1614	Adapter	.....	UG 273/U
1615	Antenna	.....	AN104B
1616	Plug	.....	PT06E-20-39SY
1617	Control	Wilcox	97733-100
1618	Circuit Breaker	.....	MS25017-5
1619	Amplifier	.....	AM300A/AIC
1620	Mount	.....	677A/AIC
1621	Switch	.....	MS35058-22
1622	Light Panel	.....	MS25010 B11A(327)
1623	Speaker	.....	MN 15B
1624	Resistor 6800	.....	MS35043-107
1625	Terminal Board	.....	MS25123-1-6
1626	Connector	.....	MS3106A6S-1S
1627	Clamp	.....	MS3057-8A

**11-4. WIRING CHANGES FOR T-29D AIRCRAFT MODIFIED BY TCTO 1T-29D-519.**

a. TCTO 1T-29D-519 provided Command Audio at training stations 6, 9, 10, and 11 on MIXER SWITCH No. 2 on the following *T-29D aircraft (Serial No. 53-3500 thru 53-3508, 53-3510, 53-3511, 53-3513 thru 53-3518, 53-3520, 53-3522 thru 53-3533 and 53-3546.)*

b. At station No. 6, wire RZ28BT20 (connected between pins "M" and "U" on Item 385) was removed. Wire RZ28BS20 was moved from pin "U" to pin "M". A new wire (RZ20S20) was installed between pin "U" of Item 385 and terminal 16 of instrument splice panel No. 8.

c. At station No. 9, wire RZ28CK20 (connected between pins "M" and "U" on Item 385) was removed. Wire RZ28CJ20 was moved from pin "U" to pin "M". A new wire (RZ20T20) was installed between pin "U" of Item 385 and pin "V" of Item 394.

d. At station No. 10, wire RZ28CR20 (connected between pins "N" and "U" on Item 385) was removed. Wire RZ28CQ20 was moved from pin "U" to pin "N". A new wire (RZ20U20) was connected between pin "U" of Item 385 and pin "V" of Item 394.

e. At station No. 11, wire RZ28CY20 (connected between pins "M" and "U" of Item 385) was removed. Wire RZ28CW20 was moved from pin "U" to pin "M". A new wire (RZ20V20) was connected between pin "U" of Item 385 and pin "V" of Item 394.





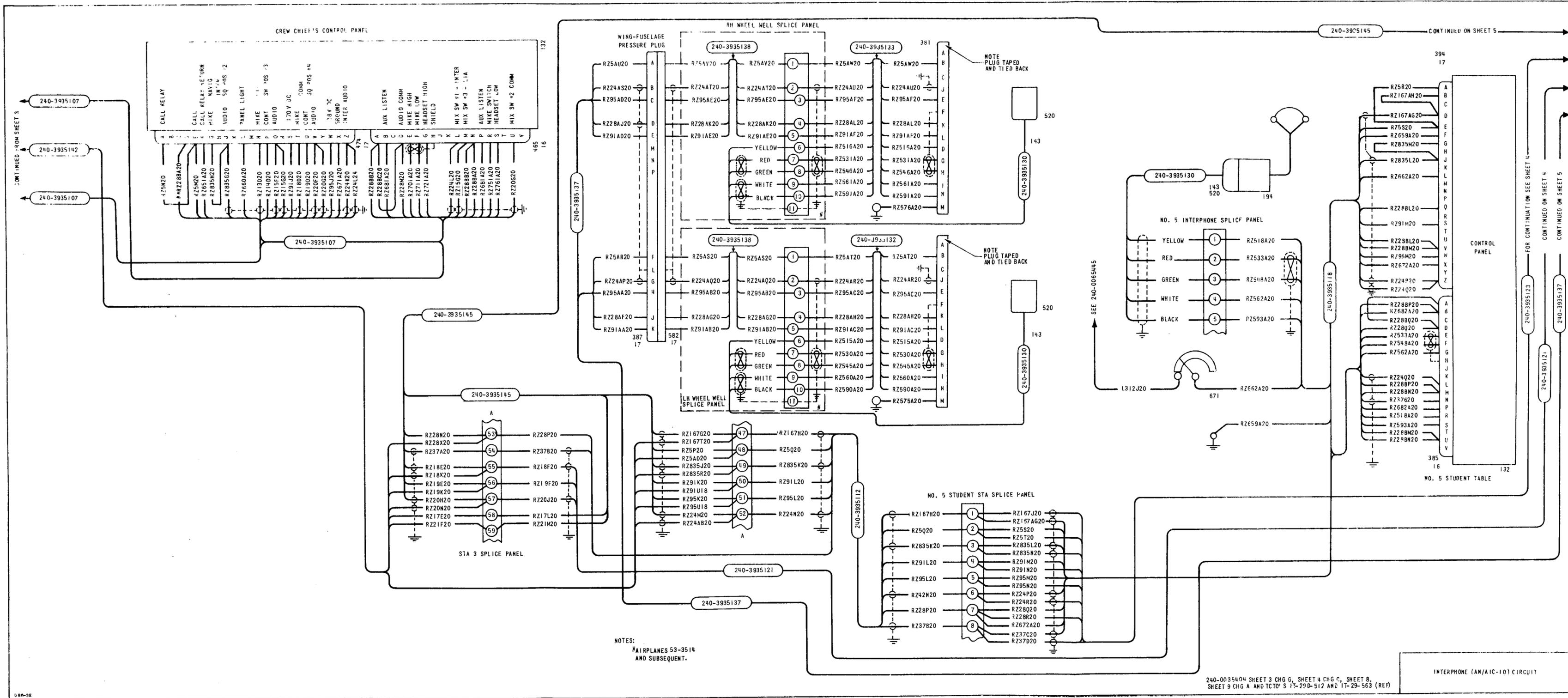
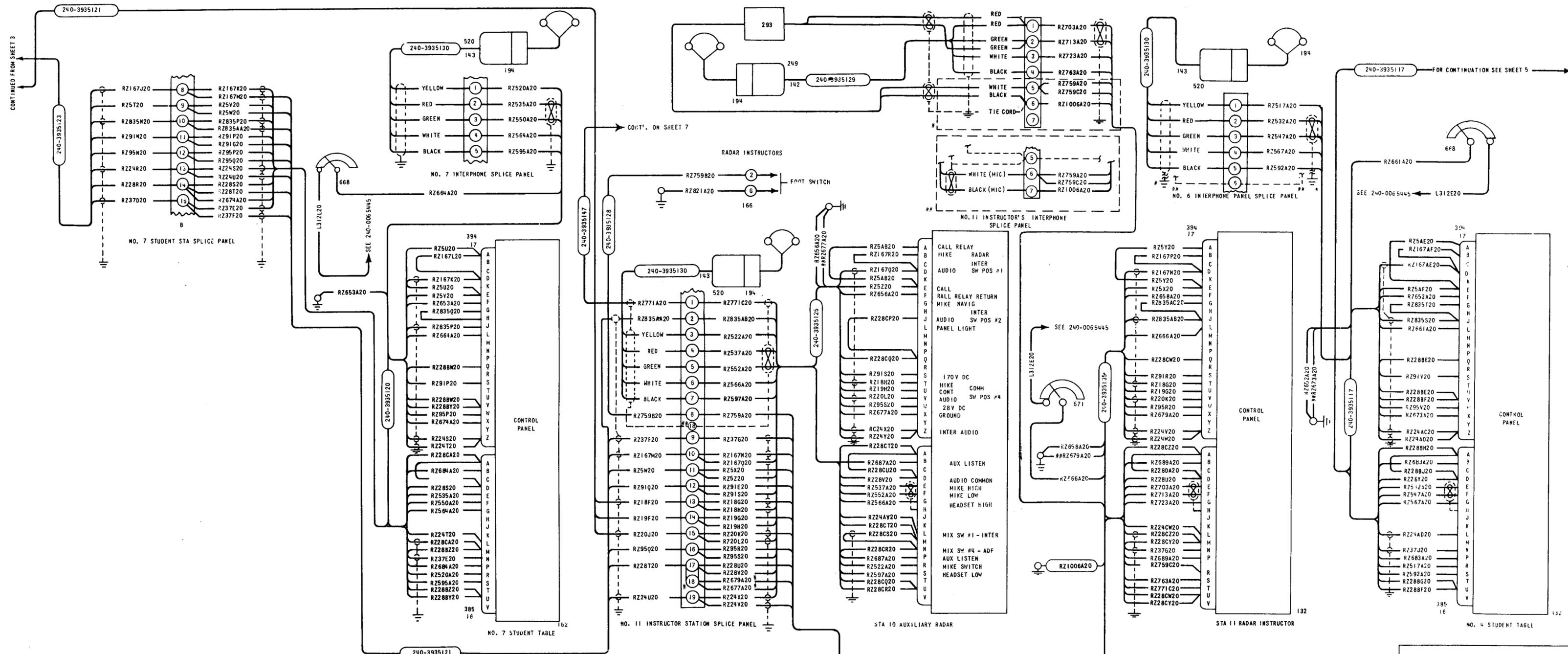


Figure 11-1. Interphone (AN/AIC-10) Circuit (Sheet 3 of 5) (Airplanes 52-1176 to 52-9980 Incl)



CONTINUED FROM SHEET 3

CONT. ON SHEET 7

FOR CONTINUATION SEE SHEET 5

#AIRPLANES 52-1175 TO 53-3513 (INCL) 240-0035404 SHEET 4 CHG C&EO 140488.  
 #AIRPLANES 53-3514 AND SUBSEQUENT. SHEET 5 CHG B, SHEET 10, TC TO 11-29D-203 AND TC TO 11-29D-512

INTERPHONE (AN/AIC-10) CIRCUIT

Figure 11-1. Interphone (AN/AIC-10) Circuit (Sheet 4 of 5)  
 (Airplanes 52-1176 to 52-9980 Incl)





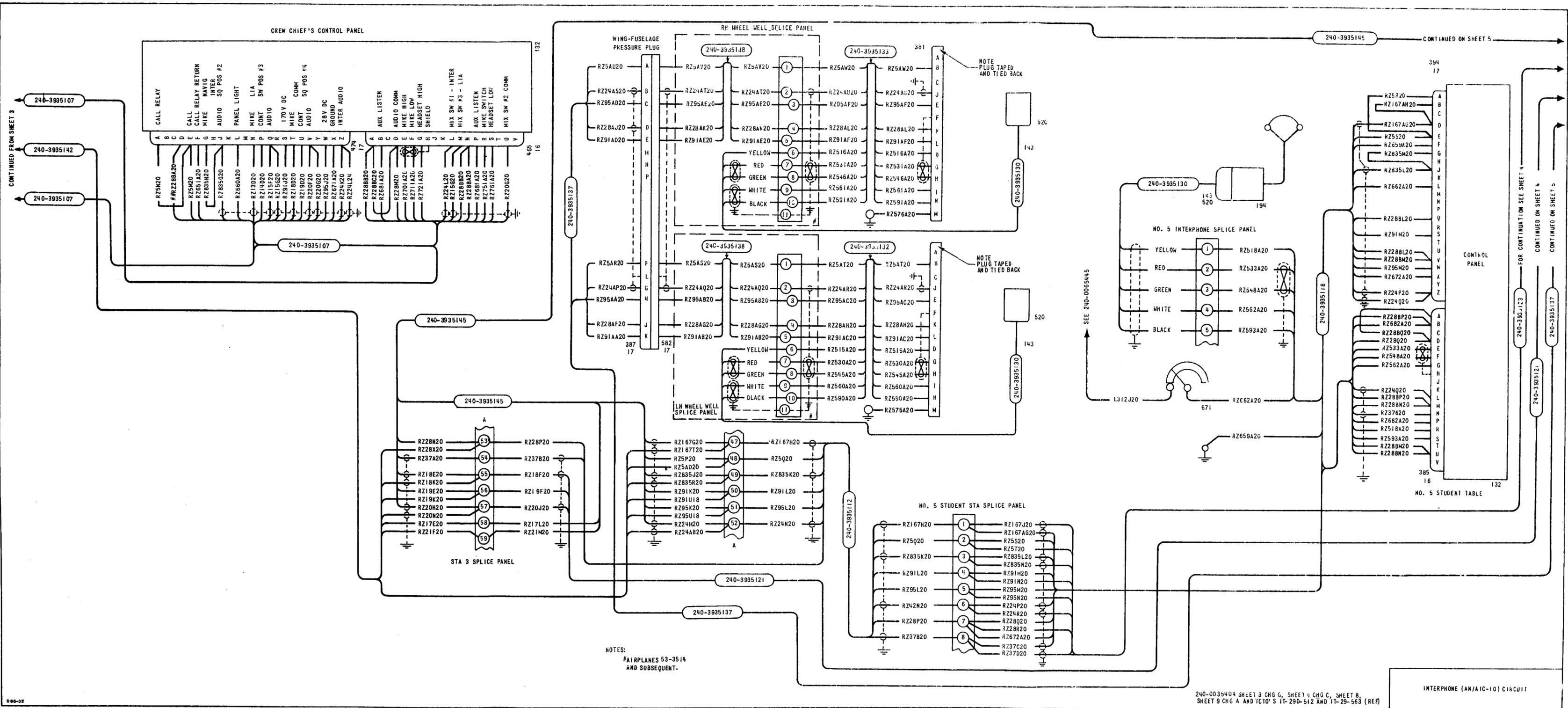


Figure 11-2. Interphone (AN/AIC-10) Circuit (Sheet 3 of 5) (Airplanes 53-3495 to 53-3513 Incl)

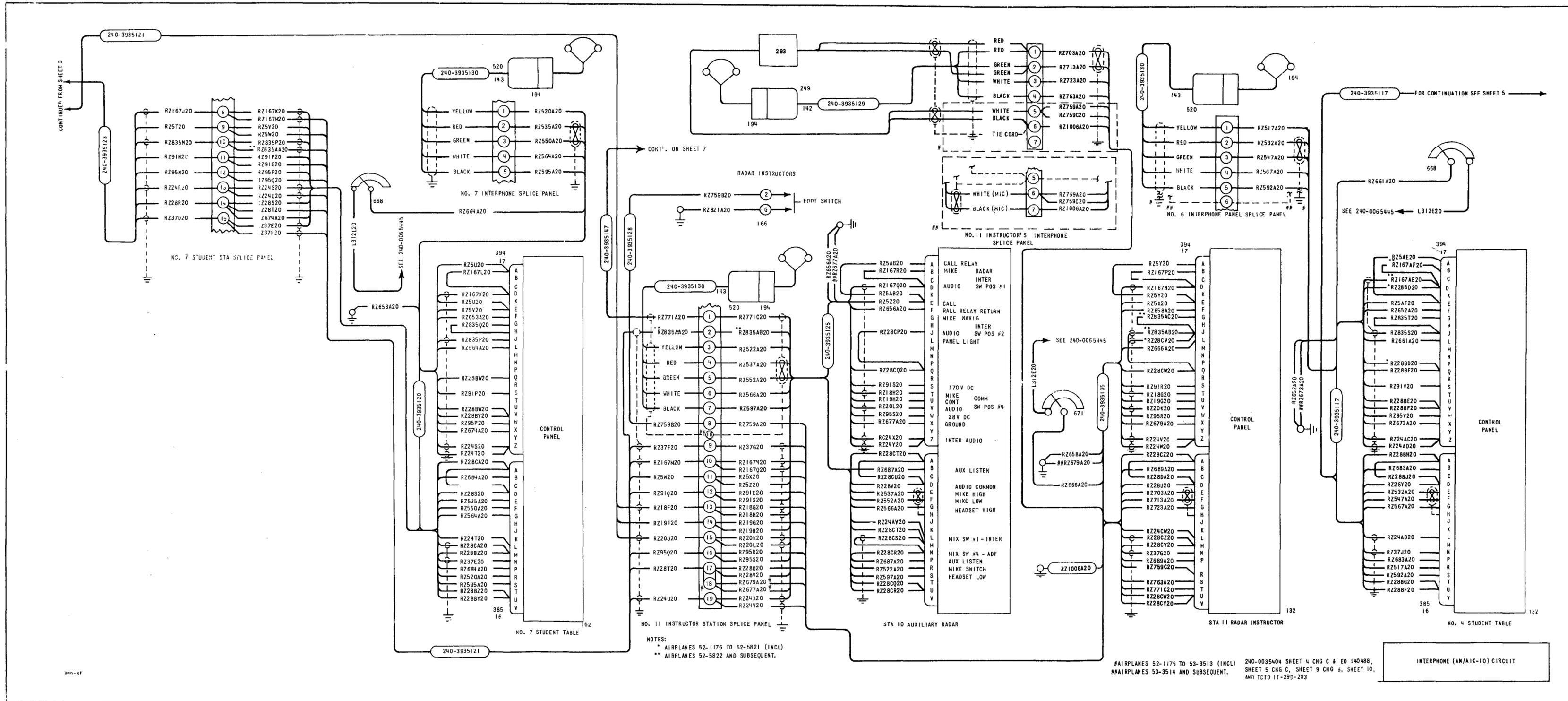
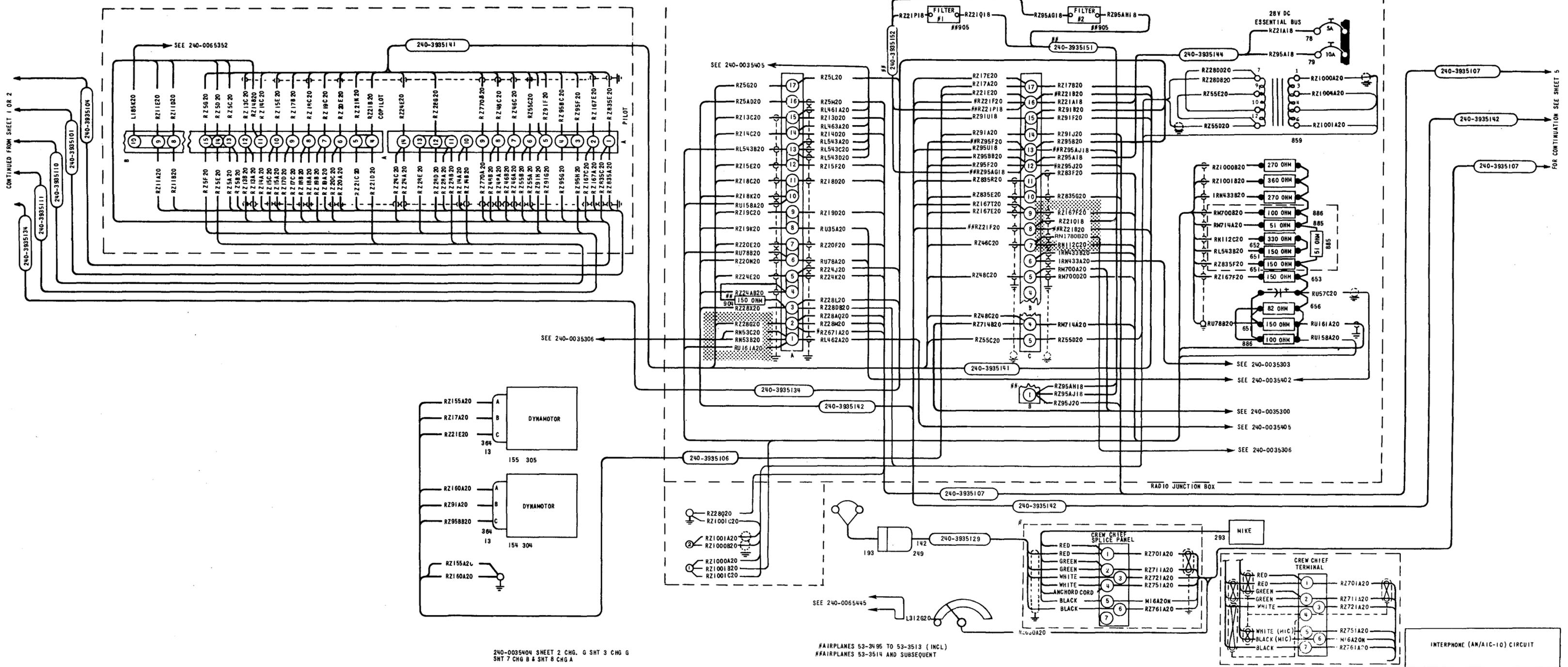


Figure 11-2. Interphone (AN/AIC-10) Circuit (Sheet 4 of 5) (Airplanes 53-3495 to 53-3513 Incl)









240-003540N SHEET 2 CHG. G SHT 3 CHG G  
 SHT 7 CHG B & SHT 8 CHG A  
 T.C.T.O. 1T-29-621 (REF)

# AIRPLANES 53-3495 TO 53-3513 (INCL)  
 # AIRPLANES 53-3514 AND SUBSEQUENT

Figure 11-3. Interphone (AN/AIC-10 Circuit) (Sheet 2 of 5)  
 (Airplanes 53-3514 and Subsequent)

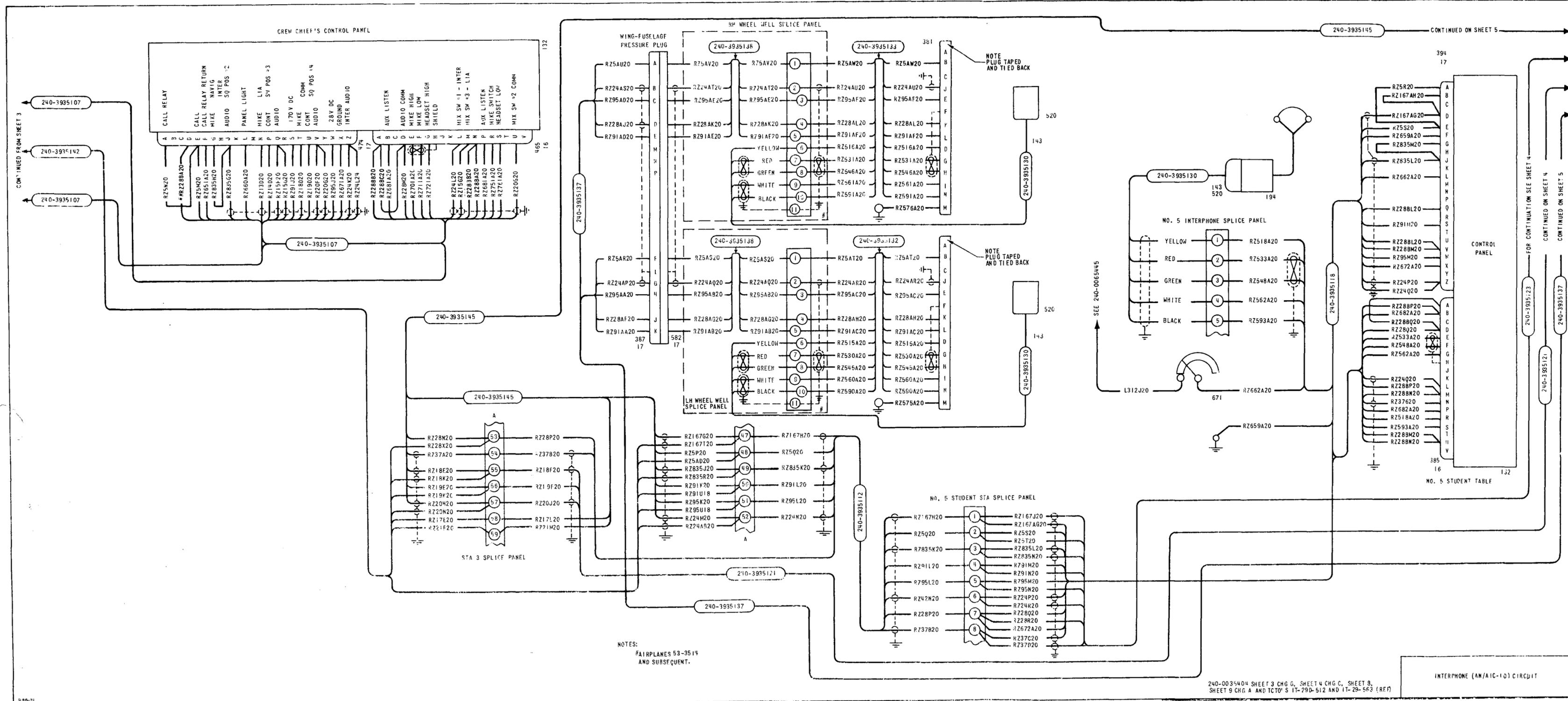
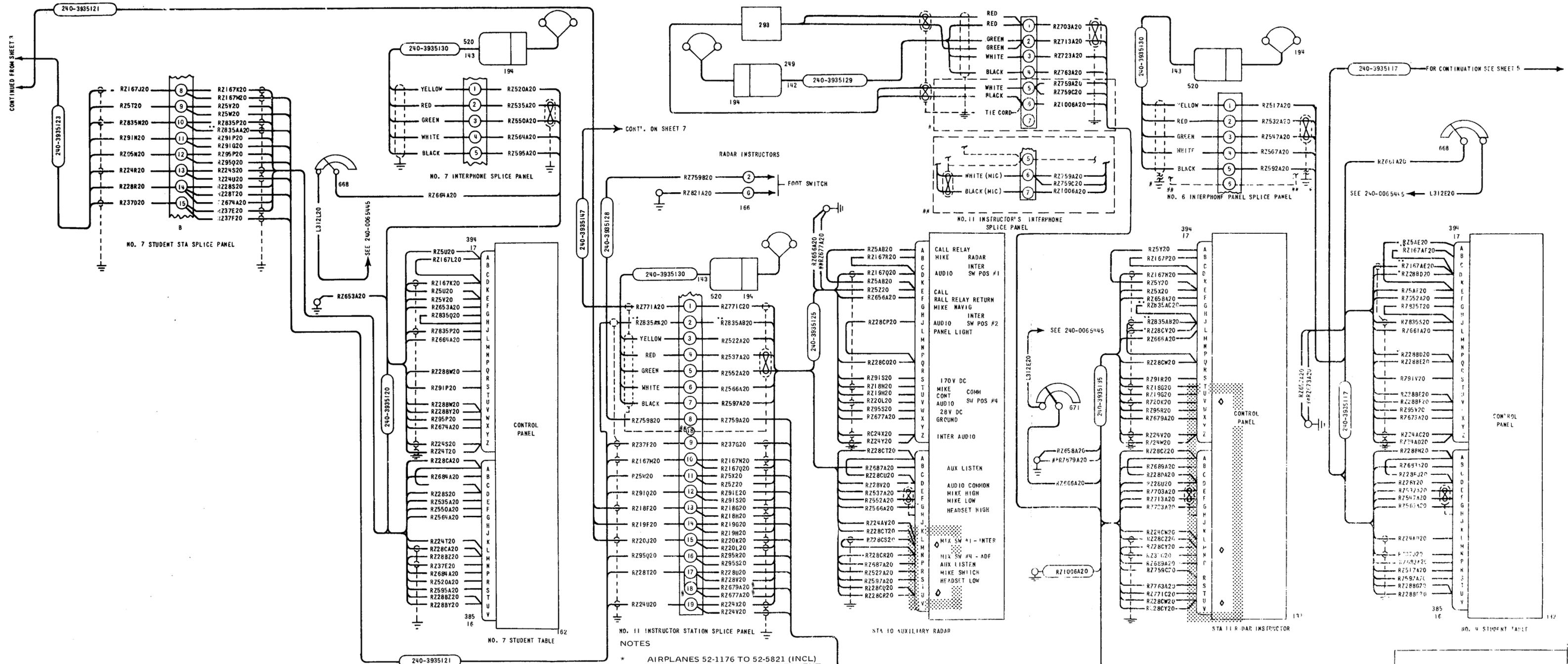


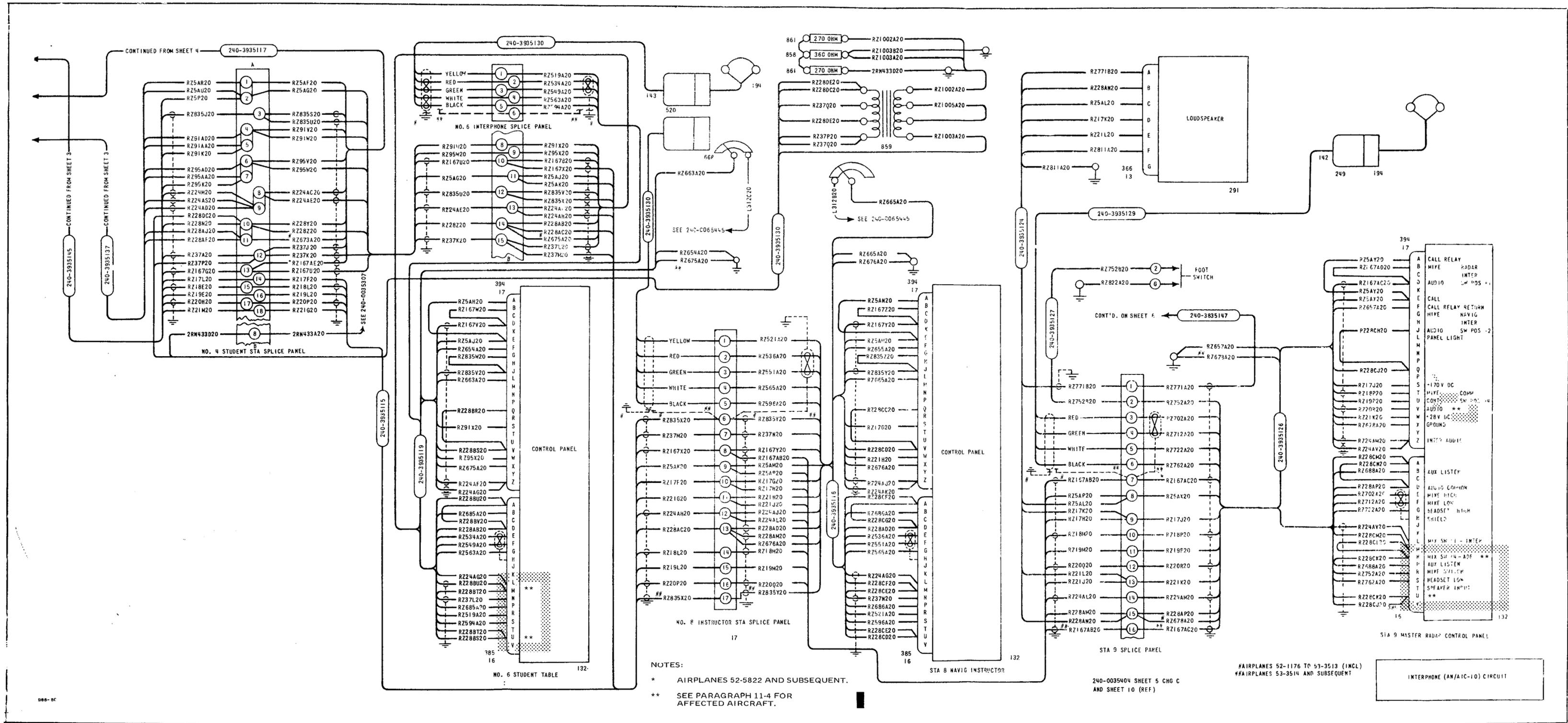
Figure 11-3. Interphone (AN/AIC-10 Circuit) (Sheet 3 of 5) (Airplanes 53-3514 and Subsequent)



NOTES  
 \* AIRPLANES 52-1176 TO 52-5821 (INCL)  
 \*\* AIRPLANES 52-5822 AND SUBSEQUENT.  
 ◇ SEE PARAGRAPH 11-4 FOR AFFECTED AIRCRAFT.

INTERPHONE (AN/AIC-10) CIRCUIT  
 \*AIRPLANES 52-1176 TO 53-3513 (INCL) 240-003540N SHEET 1, 4, CHG 1 & 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Figure 11-3. Interphone (AN AIC-10) Circuit (Sheet 4 of 5) (Airplanes 53-3514 and Subsequent)



NOTES:  
 \* AIRPLANES 52-5822 AND SUBSEQUENT.  
 \*\* SEE PARAGRAPH 11-4 FOR AFFECTED AIRCRAFT.

240-0035404 SHEET 5 CHG C AND SHEET 10 (REF)

#AIRPLANES 52-1176 TO 53-3513 (INCL)  
 #AIRPLANES 53-3514 AND SUBSEQUENT

INTERPHONE (AN/AIC-10) CIRCUIT

Figure 11-3. Interphone (AN AIC-10) Circuit (Sheet 5 of 5)  
 (Airplanes 53-3514 and Subsequent)

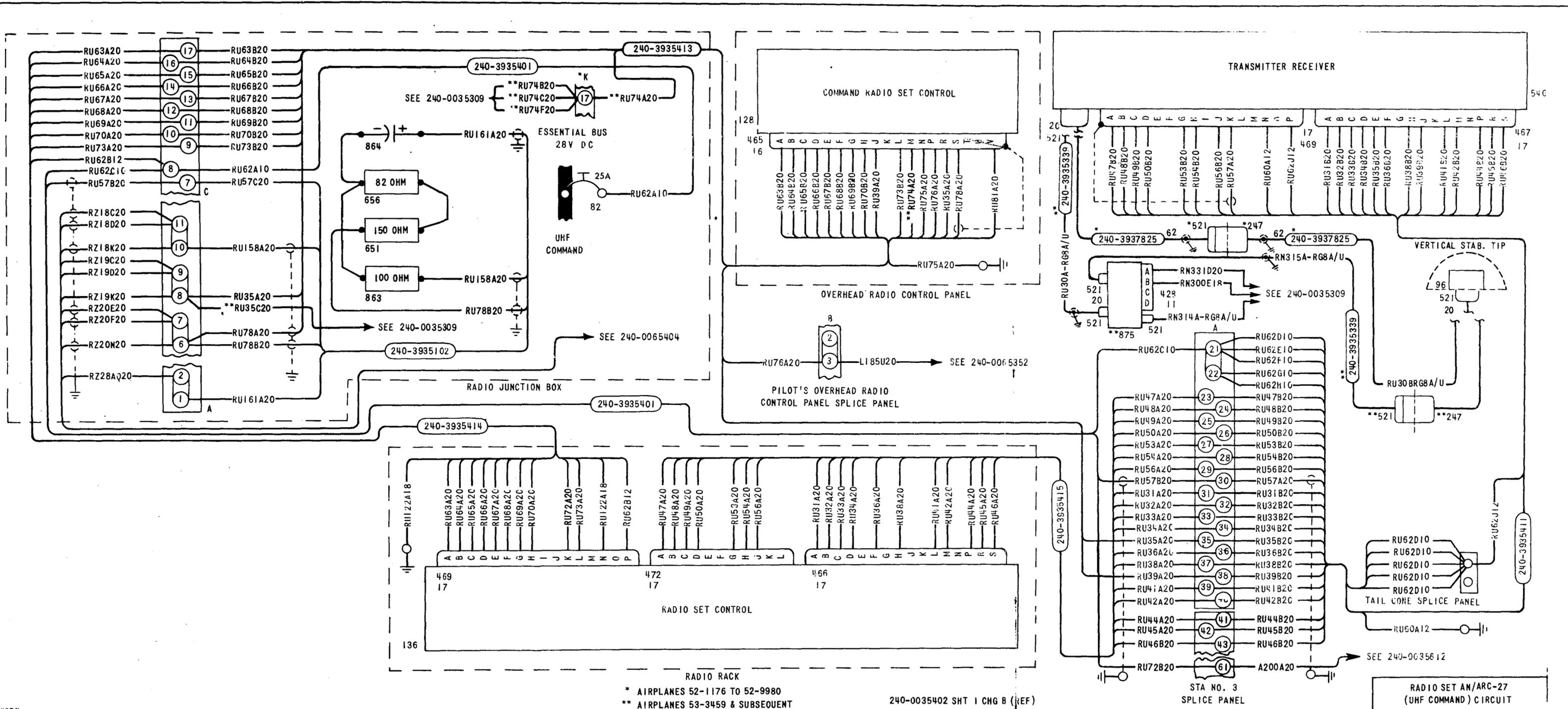


Figure 11-4. T-29D Aircraft Wiring Data - Radio Set AN/ARC-27

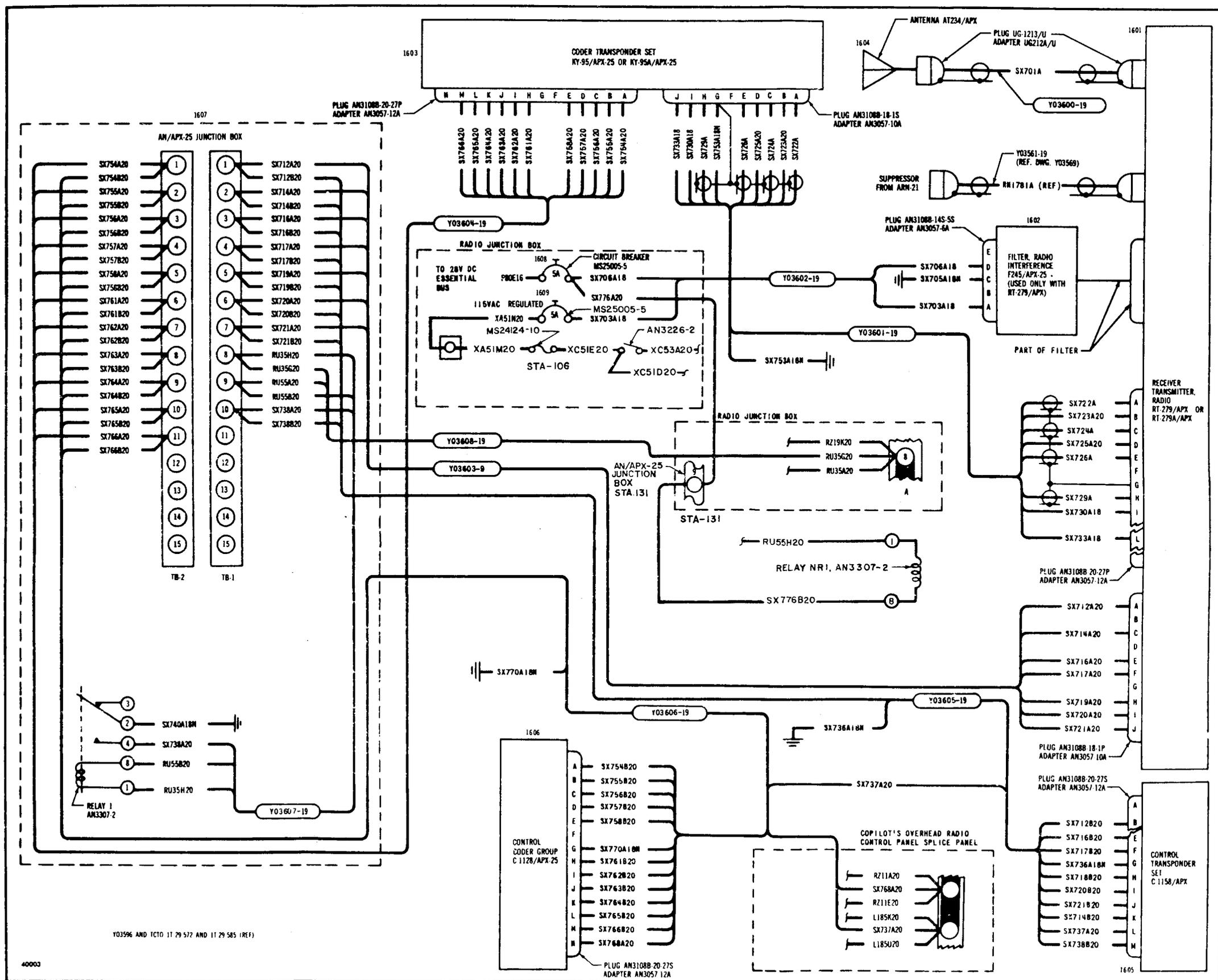
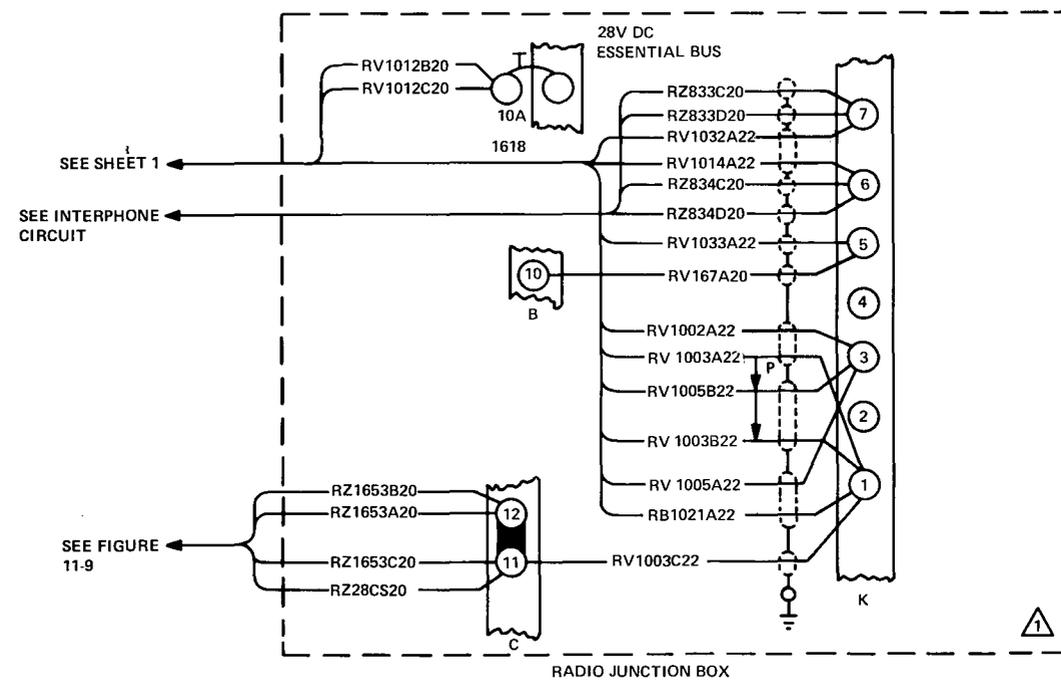
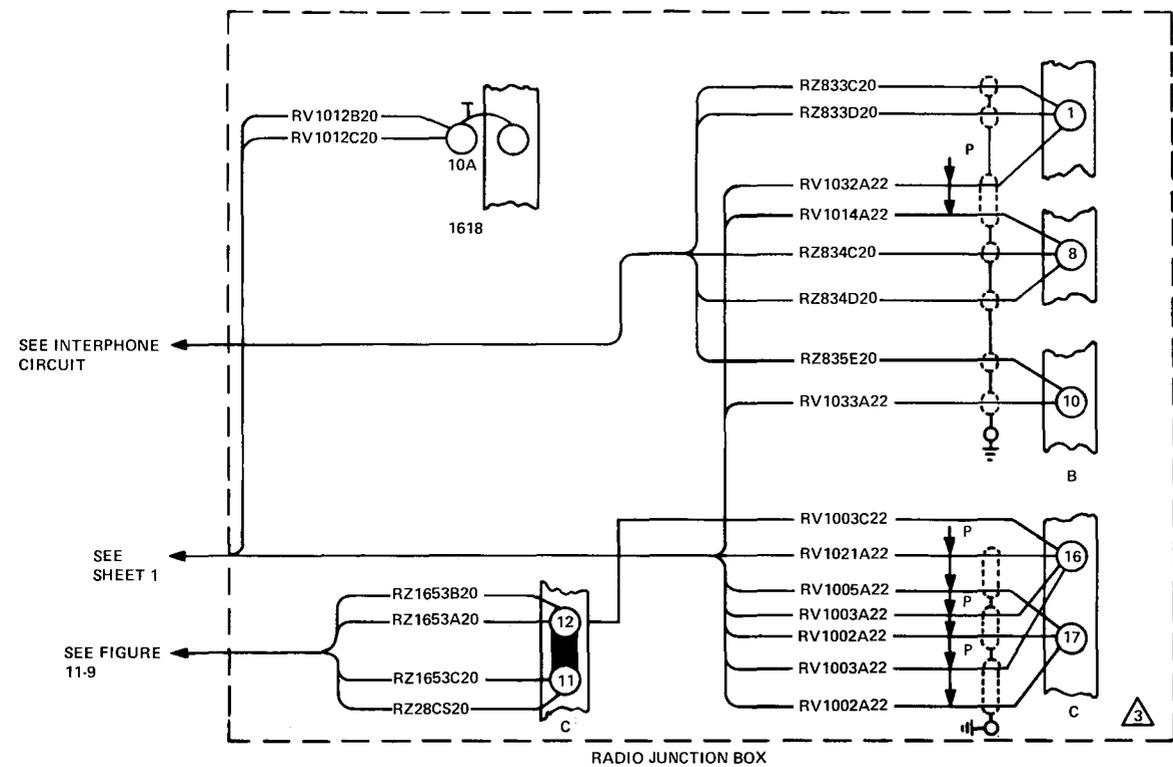
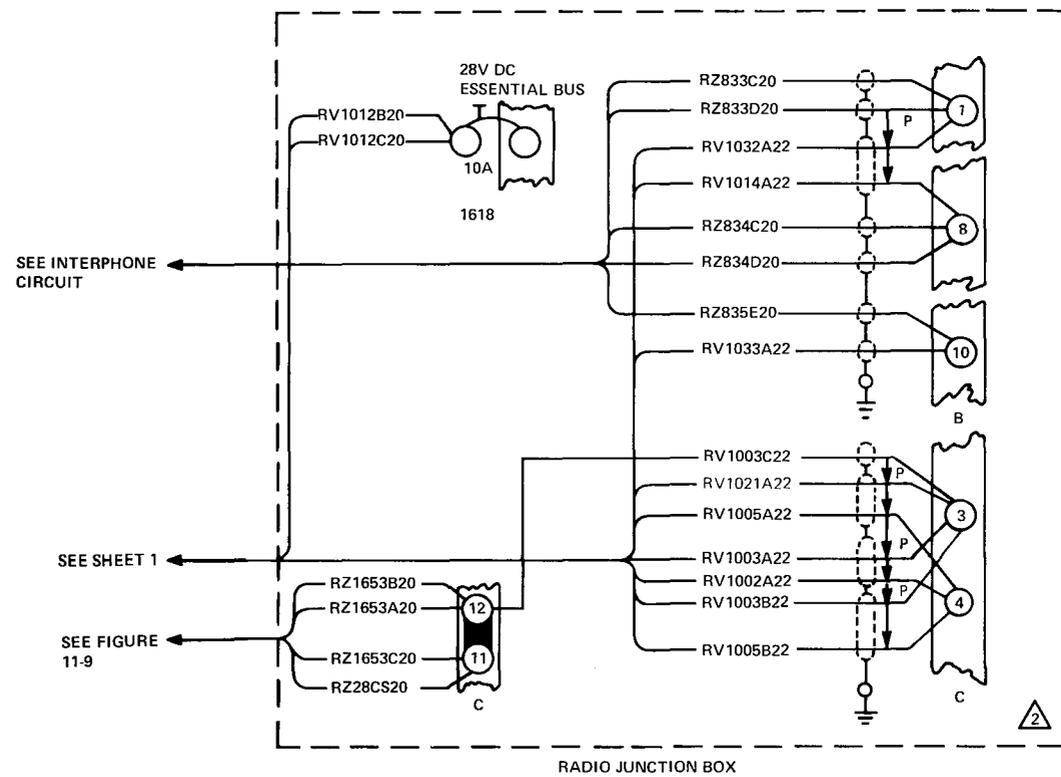


Figure 11-7. Transponder Set (AN/APX-25) Circuit



- △1 APPLICABLE ON SERIAL NO'S. 53-3514, 53-3535, 53-3536, 53-3542 AND 53-3545
- △2 APPLICABLE ON SERIAL NO'S. 52-5815, 52-5816, 52-5817, 52-5821, 52-5828, 52-5829, 52-5835, 52-5836
- △3 APPLICABLE ON SERIAL NO. 53-3512

66E38024-1 (-3) (-5)

Figure 11-8. Radio Set Wilcox 807A (VHF Communications) Circuit (Sheet 2 of 2).

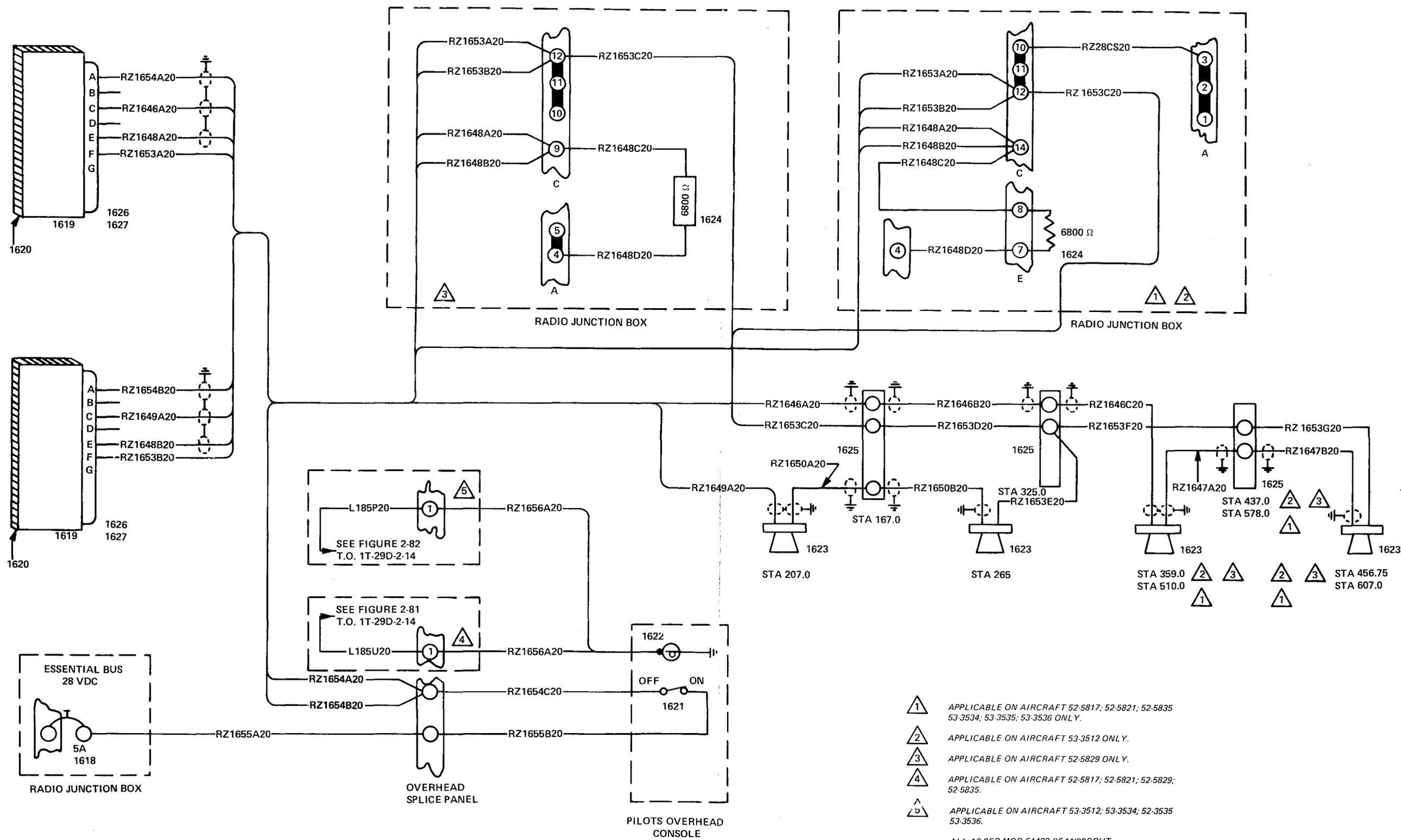


Figure 11-9. Public Address Circuit

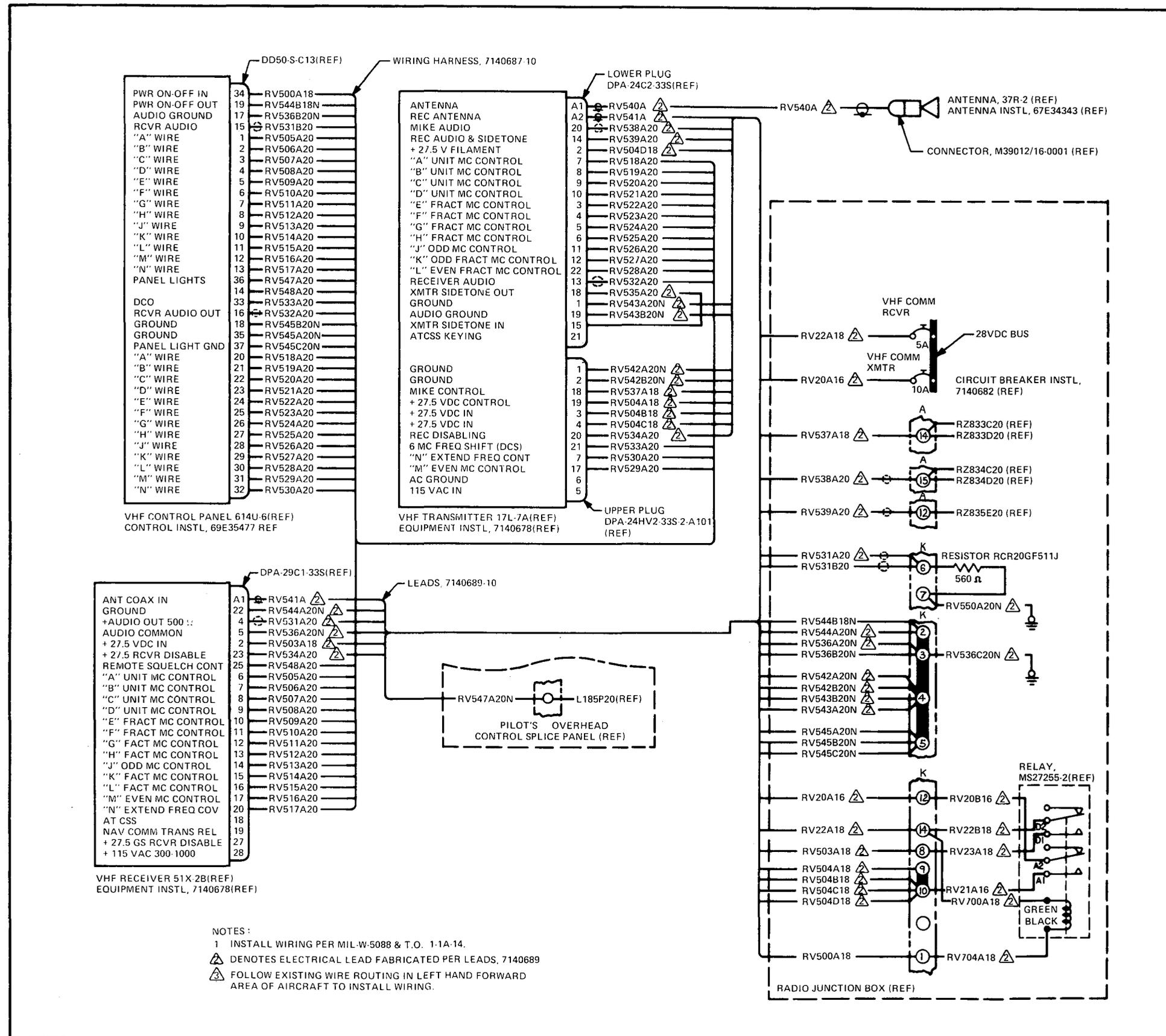
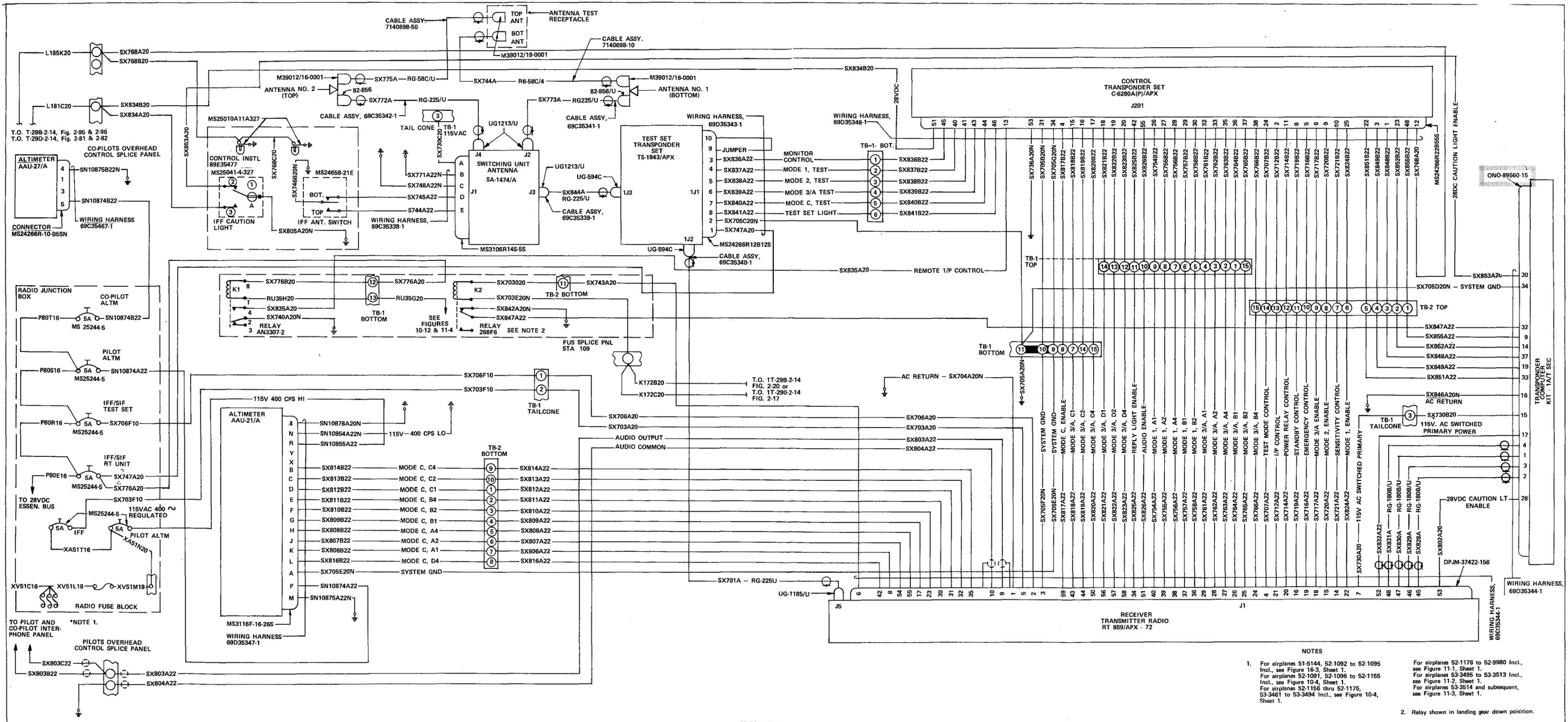


Figure 11-9A. Collins VHF-101 Radio Communications



**NOTES**

- For airplanes 51-5144, 52-1092 to 52-1095 Incl., see Figure 16-3, Sheet 1.  
For airplanes 52-1081, 52-1086 to 52-1155 Incl., see Figure 10-4, Sheet 1.  
For airplanes 52-1156 thru 52-1175, 53-3461 to 53-3494 Incl., see Figure 10-4, Sheet 1.
- Relay shown in landing gear down position.

69J34656 (REF)

Figure 11-10. Radio Set AN/APX-72 (Transponder) Circuit All T-29 C and D Airplanes and T-29B-51-5144

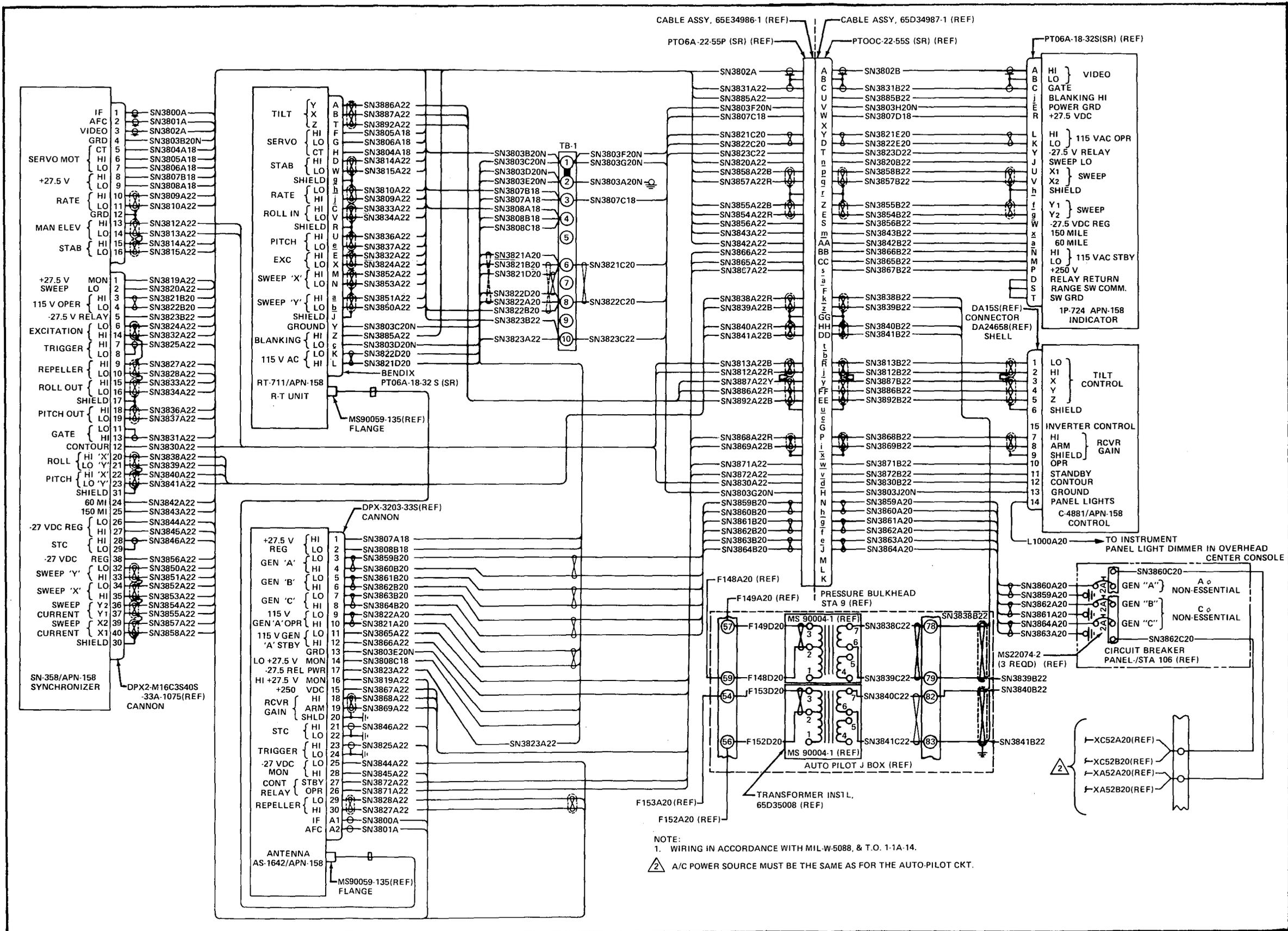


Figure 11-11. Wiring Diagram, AN/APN-158

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Arm System .....	32N	-VHF Command Radio .....	38	-Antenna .....	58F
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-Lamps, Replacement .....	34	<b>H</b>			
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-Main; UHF Command Radio .....	48	H-78/AIC .....	29	DY-76/AIC-10 & DY-77/AIC-10 .....	29
-Pilots' .....	18	Headset and Microphone Maintenance	13	Interphone, External Facilities .....	18
<b>H</b>					
<b>I</b>					
<b>J</b>					
<b>K</b>					
<b>L</b>					
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<b>X</b>					
<b>Y</b>					
<b>Z</b>					

The Symbol \* Indicates An Illustration





# OPERATIONAL SUPPLEMENT

TECHNICAL MANUAL

MAINTENANCE

RADIO AND COMMUNICATIONS

USAF SERIES

T-29A, B, C, AND D

AIRCRAFT

AF(608)29332  
F41608-72-D-1957

JAN 2 1974  
BASE FLT

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THIS PUBLICATION SUPPLEMENTS T.O. 1T-29A-2-11, DATED 9 AUGUST 1957. Reference to this supplement will be made on the title page of the basic publication by personnel responsible for maintaining the publication in current status.

**COMMANDERS ARE RESPONSIBLE FOR BRINGING THIS SUPPLEMENT TO THE ATTENTION OF ALL AFFECTED AIR FORCE PERSONNEL.**

PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR FORCE

10 DECEMBER 1973

1. Paragraph 7B-16ai(3), page 82Z, is amended to read as follows:

(3) Connect the TTU-205B/E to the pilot's pitot static system and perform a leak test. The allowable leak shall not exceed 3,000 feet in five minutes with a vacuum equal to 1/4 of full scale on aircraft altimeters before continuing with the MODE C test.

THE END

**OPERATIONAL SUPPLEMENT**

TECHNICAL MANUAL

02 JUL 1974

MAINTENANCE

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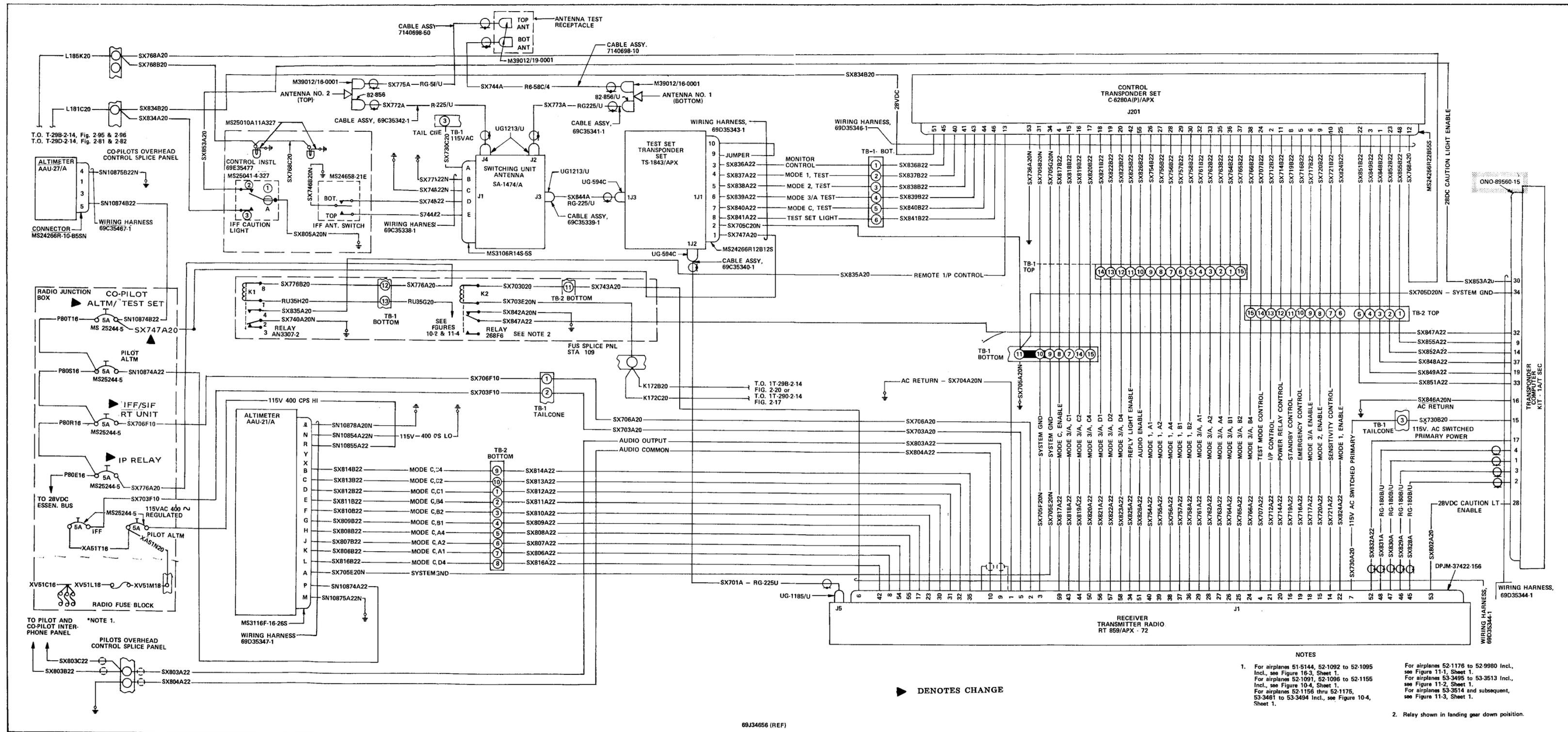
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31 MAY 1974

1. The purpose of this supplement is to incorporate the requirements of T.O. 1T-29-648, dated 31 May 1974.
2. Figure 11-10, Radio Set AN/APX-72 (Transponder) Circuit A11 T-29C and D Airplanes, and T-29B-51-5144, page 200E, is amended as shown on page 2 of this supplement.



- NOTES
- For airplanes 51-5144, 52-1092 to 52-1095 Incl., see Figure 10-3, Sheet 1.  
For airplanes 52-1091, 52-1096 to 52-1155 Incl., see Figure 10-4, Sheet 1.  
For airplanes 52-1156 thru 52-1175, 53-3481 to 53-3494 Incl., see Figure 10-4, Sheet 1.
  - Relay shown in landing gear down position.

▶ DENOTES CHANGE

69J34656 (REF)

Figure 11-10. Radio Set AN/APX-72 (Transponder) Circuit All T-29 C and D Airplanes and T-29B-51-5144

THE END