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DISCLOSURE OF CONFIDENTIAL INFORMATION GENERALLY
(18 USC 1905)
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ZONE	REV	DESCRIPTION	DATE	APPROVED
	V	NOTES: ADD NOTE 32. SH IDX REV. DRAWING CHANGE ONLY. NO PARTS OR ASSEMBLIES IN PROCESS ARE AFFECTED.	200200863A(NA) 08 JUN 97 BURKE	

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		INITIAL RELEASE	2 JUL 87	E.C. THIESSEN
A		UPD TO VIEW 106458(M)	17 DEC 87	G. NEMETH
B		MOVED VIEW. UPD TO NOTES. SH WAS 1 OF 4. DELETED SH 4. SH IDX REV. 113670(NA-X)	23 AUG 88	G. NEMETH
C		NOTES: NOTE 4 WAS COMM - 5872100-001 (RG-58/U) - CABLE. NOTE 5 WAS FOR - 7510706. RMV NOTE 13. SH IDX REV. 03495(NA)	24 AUG 89	T. EUROPA
D		NOTES: UPD TO NOTES 3 AND 5. ADD NOTES 22 AND 23. SH IDX REV. 18789(NA)	17 OCT 89	T. EUROPA
A2-4		NOTES: ADD NOTE 24 AND 25. ADD SH NOTE. T/B: CONTRACT WAS RCZ-850. WAS SH 1 OF 3. SH IDX REV. 45210(NA)	24 AUG 90	T. EUROPA
F		NOTES: UPD TO NOTE 14. 18 AND 22. UPD SH NOTE FOR END UNIT RCZ-850 AND RCZ-851. ADD FOR END UNIT RCZ-851B. WAS SH 1 OF 5. SH IDX REV. 42990(NA)	13 AUG 91	T. EUROPA
G		SH NOTE: ADD (IAC) (4X). ADD FOR END UNIT RCZ-851D AND RCZ-850A. SH IDX REV. 111026(NA)	13 NOV 91	J. HOWELL
H		ADD TBL. RMV SH NOTE. WAS SH 1 OF 8. SH IDX REV. 56977(B)	15 MAY 92	J. TROXEL
J		NOTES: NOTE 24 WAS PI-26 --- CURRENTLY IMPLEMENTED. --- REQUIRED. 68611(M)	6 JAN 93	J. TROXEL
K		NOTES: ADD NOTE 26 AND 27. TBL: ADD PN DASH NO. -807 AND -808. SH IDX REV. 62662(NA)	1 JUL 93	J. TROXEL
L		NOTES: ADD NOTE 28, 29, 30 AND 31. TBL: PN DASH NO. -807 AND -808. UPD UNIT DESC. ADD PN DASH NO. -850. WAS SH 1 OF 11. SH IDX REV. 62697(NA)	19 OCT 93	J. TROXEL
M		TBL: ADD PN DASH NO. -809. APPL BLK: NEXT ASSY AND USED ON (SYS): PN WAS 7510700-901. SH IDX REV. 83616(NA)	25 OCT 94	R. PAULSEN
N		RELOC TBL TO NEW SH 2. SH IDX REV. WAS SH 1 OF 13. 92352(M)	02 FEB 96	T. EUROPA
P		NOTES: NOTE 28, 29 AND 30: UPD TO SIGNAL NAMES. SH IDX REV. WAS SH 1 OF 20. 96447(M)	21 MAY 97	T. EUROPA
R		SH IDX REV. WAS SH 1 OF 27. 96485(M)	06 NOV 97	T. EUROPA
T		NOTES: NOTE 26 WAS SIGNAL --- RCZ-851F COM UNITS. NOTE 27 WAS SIGNAL --- RCZ-851G COM UNITS. SH IDX REV. 107406(M)	04 OCT 99	J. SCHNEIDER
U		SH IDX REV. 107449(B)	03 DEC 99	M. HOWK

NOTES:
(UNLESS OTHERWISE SPECIFIED):

- ALL DIGITAL COMMUNICATIONS BUSES (DIGITAL AUDIO BUS, RSB) SHALL BE TERMINATED AS SPECIFIED IN PS7511029 PARAGRAPH 6.3. AND IN 7500302.
- ⚡ SYMBOLIZES THE GROUND LUG ON THE BACK OF THE MOUNT.
- TO ASSURE PROPER GROUNDING OF THIS SYSTEM, THE AIRCRAFT SURFACES TO WHICH ALL MOUNTINGS OR UNITS ARE ATTACHED MUST BE CLEAN BARE METAL. MOUNT TO AIRFRAME RESISTANCE SHALL BE 15 MILLIOHMS MAX. WITHOUT WIRING INSTALLED.
- COM ANTENNA COAXIAL CABLE SHALL BE HONEYWELL P/N 58-721-00(00001) (RG-58C/U) OR EQUIVALENT COAXIAL CABLE.
- FOR TRANSPONDER ANTENNA CABLE TYPE AND LENGTH SEE 7510706.
- ALL WIRES SHALL BE STRANDED 22 AWG PER MIL-W-81044 OR MIL-2-22759/16 EXCEPT AS NOTED.
- SHIELDED TWISTED PAIR CONDUCTOR 24 AWG SHALL BE RAYCHEM PART NUMBER 2524E0114 OR FILOTEX P/N 69654.
- UNLESS OTHERWISE SPECIFIED SHIELDED SINGLE CONDUCTOR WIRE 22 AWG SHALL BE RAYCHEM PART NUMBER 44A1111-22-9-9 OR EQUIVALENT.
- POWER CONNECTION SHALL BE MADE USING STRANDED 18 AWG WIRES WITH 10A CIRCUIT BREAKER. WITH 15A CIRCUIT BREAKER, HOWEVER, THE USE OF STRANDED 16 AWG WIRE IS RECOMMENDED.
- FOR TEST PURPOSES ONLY. NOT TO BE USED IN THE SYSTEM.
- THESE OUTPUTS ARE REFERENCED TO PI/J1 PIN 29.
- FOR PROPER STRAPPING SEE PS7510700.
-

- POWER CONNECTION SHALL BE MADE USING STRANDED 20 AWG WIRES.
- TO CONNECT POWER LEADS TO THE DESIGNATED PINS SPLICE STRANDED 22 AWG WIRES AS REQUIRED.
- FOR AUDIO BUS INTERCONNECT SEE 7511003.
- CHARACTERISTICS OF THE COM. ANTENNA: VERTICALLY POLARIZED, 50 OHMS IMPEDANCE, VSWR LESS THAN 2:1 FROM 118 MHZ. TO 152 MHZ. OR FROM 118 MHZ. TO 137 MHZ. AS APPROPRIATE.
- CHARACTERISTICS OF THE TOR ANTENNA: IMPEDANCE 50 OHMS, VSWR LESS THAN 1.5:1 FROM 1000 MHZ. TO 1120 MHZ.
- TO ENSURE PROPER INTERPRETATION AND OPERATION OF THE SQUAT SWITCH (AKA. WOW) FUNCTION, STRAPS MUST BE CORRECTLY SET PER PS7510700.
- FOR DUAL INSTALLATION SEE HONEYWELL DWG. 7500429.
- FOR AUXILIARY (ACH) CHANNELING EITHER THE CD-850 OR THE TX-850 MAY BE USED. THE CD-850 SHALL BE WIRED TO A DESIGNATED CIRCUIT BREAKER AND RECEIVES RSB MESSAGES, WHILE THE TX-850 RECEIVES IT'S POWER FROM THE RCZ-850 AND DOES NOT RECEIVE RSB MESSAGES.
- IN SOME INSTALLATIONS PI, P2, J4 AND J7 MAY BE OMITTED, SEE INSTALLATION DRAWING 7510706.
- J1 GROUND AND SHIELD GROUND WIRES MUST TERMINATE TO E1 OR E2 BEFORE CONNECTING TO J1 (SEE INSTALLATION DRAWING 7510706).
- PI-26, PI-99 AND PI-86 ARE SHOWN CONNECTED FOR FUTURE USE, BUT ARE CURRENTLY NOT IMPLEMENTED. NO CONNECTIONS ARE REQUIRED.
- PI-13 AND PI-1 ARE INPUTS WHICH ARE RESERVED FOR TCAS DISPLAY RANGE CONTROL.
- SIGNAL IS RESERVED ON RCZ-851F, RCZ-833F, RCZ-854F COM UNITS.
- SIGNAL IS RESERVED ON RCZ-851G, RCZ-833G, RCZ-854A, RCZ-854G COM UNITS.
- MUT SUP P IS THE MUTUAL SUPPRESSION BUS WHICH SHOULD GO TO ALL AIRCRAFT SYSTEMS WHICH REQUIRE L-BAND SUPPRESSION.
- CTL SCR SEL1 NO DISCRETE SELECTS EITHER CTL1 OR CTL2 ARINC BUS INPUTS, SEE PS7510700 FOR DISCRETE OPERATION.

- SOME CONTROL PANELS HAVE THE ABILITY TO ACTIVATE THE TRANSPONDER AIR GROUND INPUTS. THE AIRCRAFT STRUT SWITCH MAY BE CONNECTED DIRECTLY TO THE AIR GROUND INPUTS.
- FOR RCZ TUNING SOURCE, TRANSPONDER REMOTELY TUNED FROM RCZ-851C COM UNIT.
- 850 MAY NOT BE USED FOR NEW VARIABLE.

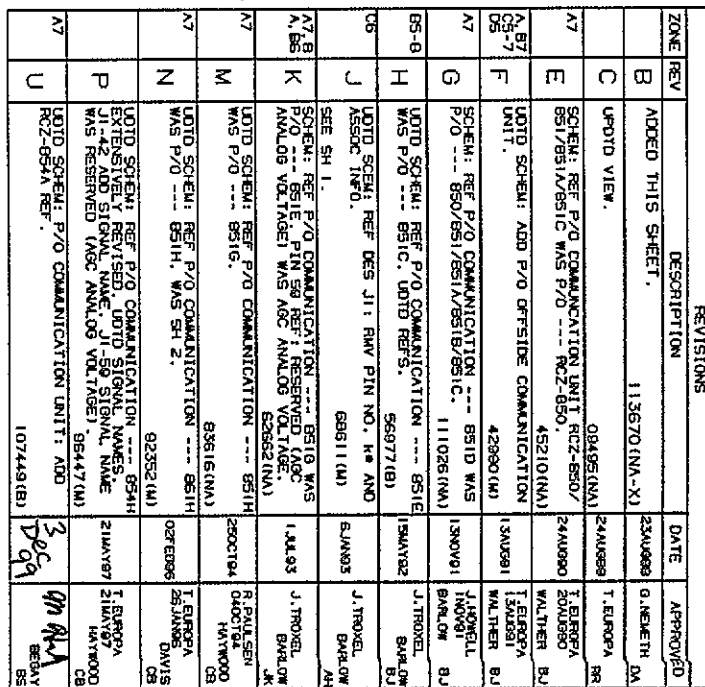
FOR HONEYWELL REFERENCE		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES: TOLERANCES:	
MFG REF NO.		MATERIAL		ITEM CODE (PER 88899384)	
DPA NO. R-0621		MILITARY DESIGNATION		THIRD ANGLE PROJECTION	
PRODUCT LINE NO. 3851		PROCESS, FINISH, SEE 00.40.		DWG CLASS A	
AW/PS ANALYSIS EB 7510800		FINISH		FIRST USED ON 7510700-901	
REF DWG		REF SPEC			
7510700		7510700			
NEXT ASSY		USED ON (SYS)			
APPLICATION					

CONTRACT RCZ-850/851		OPERATIONAL NOTE	
DRAWN BY A. WHIDEN		DATE 23 JUN 87	
DESIGNED BY		DATE	
CHECKED BY		DATE	
APPROVED FOR MFG		DATE	
APPROVED FOR OE G. NEMETH		DATE 24 JUN 87	
APPROVED FOR ENGRG		DATE	
APPROVED FOR ENGRG		DATE	
APPROVED FOR		DATE	
SIZE/CAGE CODE D155939		DRAWING NO. 7510708	
SCALE/UNIT WT		SHEET 1 OF 26	

Honeywell
COMMERCIAL FLIGHT SYSTEMS GROUP
PHOENIX, ARIZONA
INTERCONNECT DIAGRAM - COMMUNICATION UNIT

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	N	ADD THIS SHEET. RELOC TBL FROM SH 1: ADD -826 THRU -829, -853, -851 THRU -869 AND -873 VAR. 92352(M)	02FEB96	T. EUROPA 26JAN96 DAVIS CB
	P	TBL: EXTENSIVELY REVISED. 96447(M)	21MAY97	T. EUROPA 21MAY97 HAYWOOD CB
	R	TBL: END UNIT: RMV MODEL NO. RCZ-833A (PN 7510700-863). MODEL NO. RCZ-831 AND RCZ-833B THRU RCZ-833H: COM UNIT. ARINC 429 WAS YES. SHEETS 17 THRU 26 REFS WAS SHEETS 18 THRU 27 RESP. 96485(M)	06NOV97	T. EUROPA 11NOV97 HAYWOOD CB
	T	TBL: ADD END UNIT MODEL NO. RCZ-854A. 107406(M)	04OCT99	J. SCHNEIDER 04OCT99 BEGAY BS
	V	TBL: END UNIT: ADD NOTE 33 CALLOUT TO PART NUMBER. RMV MODEL NO. RCZ-852. 200200863A (NA) SEE SH 1.	08JUNE02	BLAKE SUND-AM

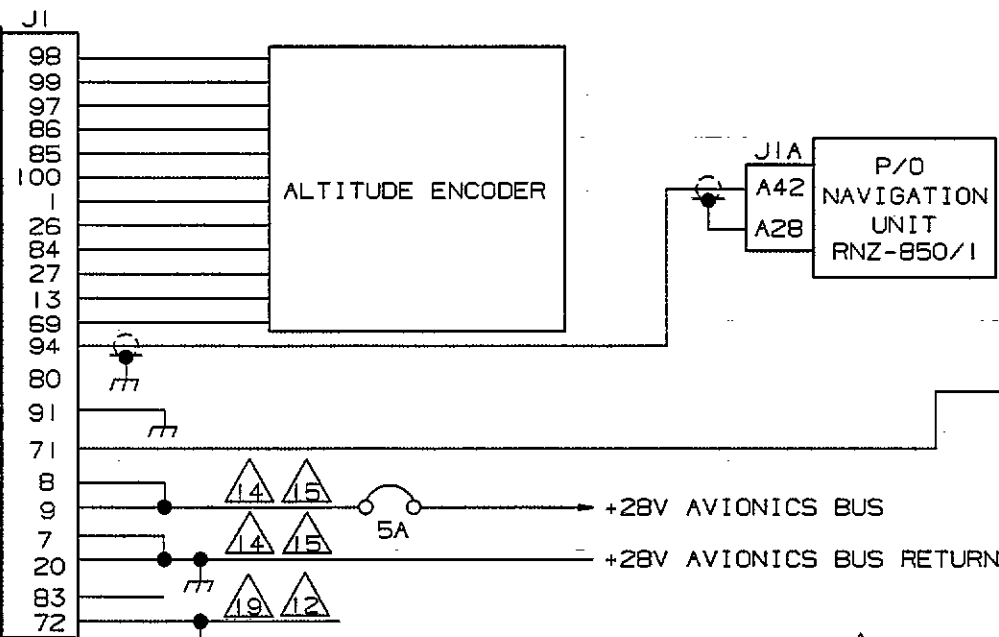
END UNIT		COM UNIT			SEE SHEETS	END UNIT		COM UNIT			SEE SHEETS	END UNIT		COM UNIT			SEE SHEETS	END UNIT DESCRIPTION	UNIT WIDTH
MODEL NO.	PART NUMBER	FREQ kHz	ARINC 429	ACARS		MODEL NO.	PART NUMBER	FREQ kHz	ARINC 429	ACARS		MODEL NO.	PART NUMBER	FREQ kHz	ARINC 429	ACARS			
RCZ-850	7510700-901	25.0	NO	NO	3, 4													MODE S XPDR	NAR
RCZ-850A	7510700-902	25.0	NO	NO	3, 5													ATCRBS XPDR	NAR
RCZ-851	7510700-801	25.0	NO	NO	3, 4	RCZ-831	7510700-861	8.33	NO	NO	3, 15							MODE S XPDR	NAR
RCZ-851A	7510700-803	25.0	NO	NO	3, 6													TCAS INTERFACE, IAC	NAR
RCZ-851B	7510700-802	25.0	NO	NO	3, 7, 8, 9	RCZ-833B	7510700-862	8.33	NO	NO	3, 7, 8, 20	RCZ-833B	7510700-762	8.33	YES	YES	3, 7, 8, 21	DIV XPDR, IAC, GILMAN ALT	WIDE
RCZ-851C	7510700-804	25.0	NO	NO	3, 10	RCZ-833C	7510700-864	8.33	NO	NO	3, 18							NO XPDR, IAC	NAR
RCZ-851D	7510700-805	25.0	NO	NO	3, 5	RCZ-833D	7510700-865	8.33	NO	NO	3, 16							ATCRBS XPDR, IAC	NAR
RCZ-851E	7510700-806	25.0	NO	NO	3, 11, 12	RCZ-833E	7510700-866	8.33	NO	NO	3, 11, 22	RCZ-833E	7510700-766	8.33	YES	YES	3, 11, 23	DIV XPDR, IAC, DADC ALT	WIDE
RCZ-851F	7510700-807	25.0	NO	NO	3, 11, 12	RCZ-833F	7510700-867	8.33	NO	NO	3, 11, 22	RCZ-833F	7510700-767	8.33	YES	YES	3, 11, 23	MODE S XPDR, IAC, DADC ALT	WIDE
RCZ-851G	7510700-808	25.0	NO	NO	3, 11, 12	RCZ-833G	7510700-868	8.33	NO	NO	3, 11, 22	RCZ-833G	7510700-768	8.33	YES	YES	3, 11, 23	ATCRBS XPDR, IAC DADC ALT	WIDE
RCZ-851H	7510700-809	25.0	NO	NO	3, 10	RCZ-833H	7510700-869	8.33	NO	NO	3, 18	RCZ-833H	7510700-769	8.33	YES	YES	3, 24	NO XPDR, IAC	WIDE
RCZ-853	7510700-853	25.0	YES	YES	25, 26	RCZ-833	7510700-833	8.33	YES	YES	25, 26							STAND ALONE COM	S/A
RCZ-854E	7510700-826	25.0	EMER	NO	3, 11, 19							RCZ-854E	7510700-726	25.0	EMER	YES	3, 11, 17	DIV XPDR, IAC, DADC ALT	WIDE
RCZ-854F	7510700-827	25.0	EMER	NO	3, 11, 19							RCZ-854F	7510700-727	25.0	EMER	YES	3, 11, 17	MODE S XPDR, IAC, DADC ALT	WIDE
RCZ-854G	7510700-828	25.0	EMER	NO	3, 11, 19							RCZ-854G	7510700-728	25.0	EMER	YES	3, 11, 17	ATCRBS XPDR, IAC, DADC ALT	WIDE
RCZ-854H	7510700-829	25.0	EMER	NO	3, 18							RCZ-854H	7510700-729	25.0	EMER	YES	3, 24	NO XPDR, IAC	WIDE
												RCZ-854A	7510700-720	25.0	EMER	YES	3, 7, 8, 21	ATCRBS XPDR, IAC, GILHAM ALT	WIDE



P/O PILOT COMMUNICATION UNIT
RCZ-850/851

(FOR COM FUNCTIONS SEE SH 3)

- ENC ALT A1 NO
- ENC ALT A2 NO
- ENC ALT A4 NO
- ENC ALT B1 NO
- ENC ALT B2 NO
- ENC ALT B4 NO
- ENC ALT C1 NO
- ENC ALT C2 NO
- ENC ALT C4 NO
- ENC ALT D2 NO
- ENC ALT D4 NO
- ENC ALT COMMON
- MUT SUP P
- MUT SUP RTN
- SQUITTER ENABLE NO
- XPDR OFF NO
- XPDR +28V PWR
- XPDR +28V RTN
- SQUAT SWITCH NO
- SQUAT SWITCH RET



P/O RMU RM-850 (* DENOTES LOWER CASE LETTER).

- RCB 1 RX P
- RCB 1 RX N
- RCB 1 TX P
- RCB 1 TX N
- RCB 2 RX P
- RCB 2 RX N
- RCB 2 TX P
- RCB 2 TX N

- AUX AUD 1 HI
- AUX AUD 1 LO
- AUX AUD 2 HI (USE FOR NAV 3)
- AUX AUD 2 LO (USE FOR NAV 3)
- AUX AUD 3 HI
- AUX AUD 3 LO
- AUX AUD 4 HI
- AUX AUD 4 LO
- GND. (AUDIO SHIELDS)

- HF COM DISABLE NO
- HF COM XMIT NO
- AUDIO STATUS 1 NO
- AUDIO STATUS 2 NO
- AUDIO STATUS 3 NO

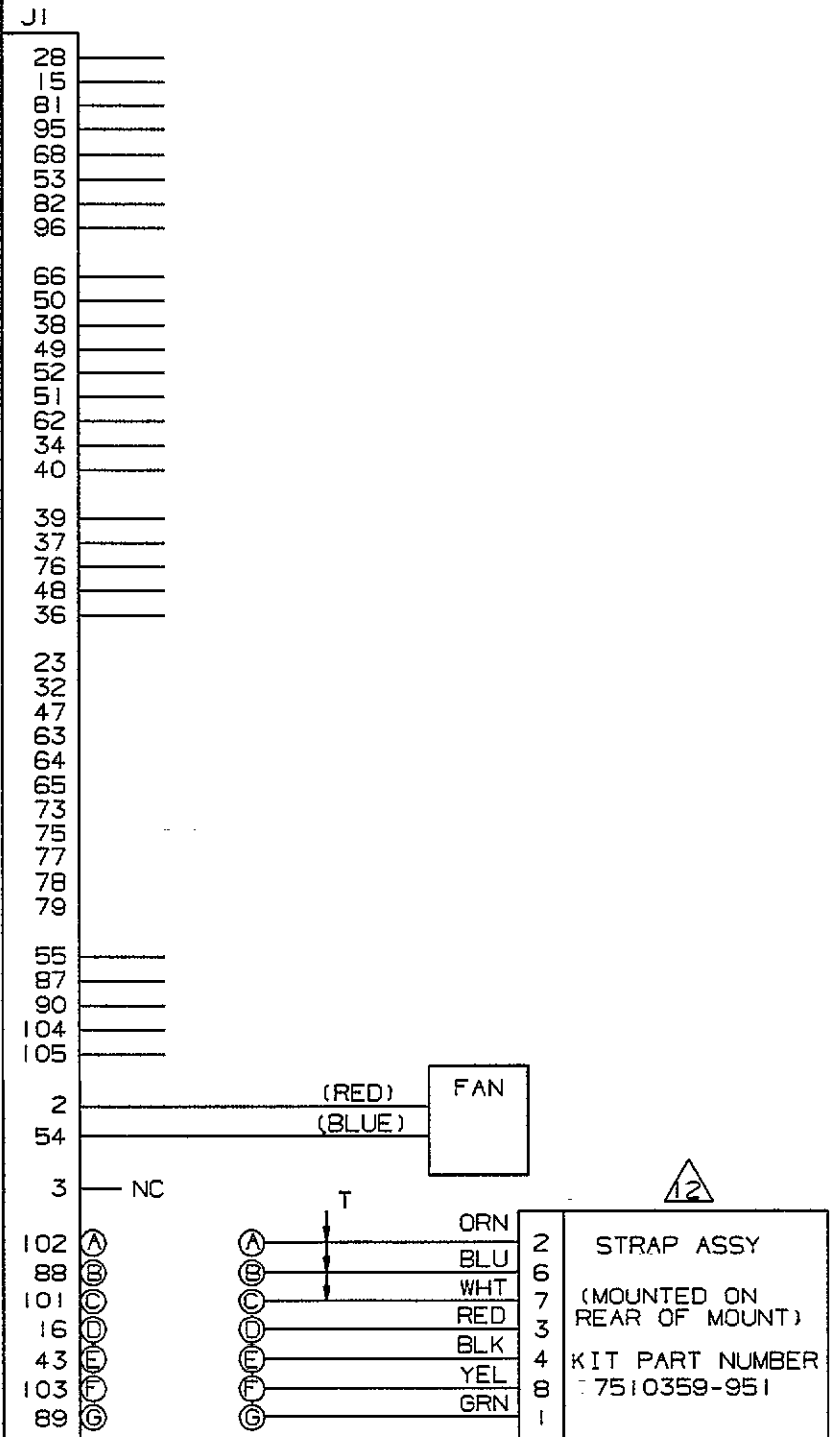
- RESERVED FOR COM 422A
- RESERVED FOR COM 422B
- RESERVED FOR XPDR 422A
- RESERVED FOR XPDR 422B
- RESERVED FOR XPDR RSV 5
- RESERVED FOR CLUSTER 429A
- RESERVED FOR CLUSTER 429B
- RESERVED FOR TCAS 429A
- RESERVED FOR COM EMERGENCY NO
- SPARE DO NOT USE
- RESERVED FOR TCAS 429B

- RESERVED FOR XPDR 4
- RESERVED FOR XPDR 3
- RESERVED FOR XPDR 2
- RESERVED FOR XPDR 1
- RESERVED FOR SQUITTER ENABLE RTN

- +28V FAN PWR
- +28V FAN RTN

- RESERVED FOR FLASH PGRM NO

- COM STRAP LOAD N
- COM STRAP CLK N
- COM STRAP DATA P
- COM STRAP +5V
- COM STRAP GND
- RESERVED FOR STRAP DATA OUT P
- RESERVED FOR STRAP WRITE N



ZONE	REV	DESCRIPTION	DATE	APPROVED
P	1	UNIT SCHEM: P/O PILOT COMMUNICATION UNIT RCZ-850/851 WAS P/O UNIT RCZ-850, REF +28V MAIN BUS RETURN WAS +28V MAIN BUS AND 105: ADD RESERVED.	11/27/91	DA
P	2	UNIT SCHEM: P/O PILOT COMMUNICATION UNIT RCZ-850/851 WAS P/O UNIT RCZ-850, REF +28V MAIN BUS RETURN WAS +28V MAIN BUS AND 105: ADD RESERVED.	11/27/91	DA
P	3	UNIT SCHEM: P/O PILOT COMMUNICATION UNIT RCZ-850/851 WAS P/O UNIT RCZ-850, REF +28V MAIN BUS RETURN WAS +28V MAIN BUS AND 105: ADD RESERVED.	11/27/91	DA
P	4	UNIT SCHEM: P/O PILOT COMMUNICATION UNIT RCZ-850/851 WAS P/O UNIT RCZ-850, REF +28V MAIN BUS RETURN WAS +28V MAIN BUS AND 105: ADD RESERVED.	11/27/91	DA

521-038 (ANSI Y14.1-1980) HONEYWELL INC. 7 6 5 4 3 2 1

P/O PILOT
COMMUNICATION
UNIT
RCZ-850A/851D

(FOR COM
FUNCTIONS
SEE SH 3)

ENC ALT A1 NO 98
ENC ALT A2 NO 99
ENC ALT A4 NO 97
ENC ALT B1 NO 86
ENC ALT B2 NO 85
ENC ALT B4 NO 100
ENC ALT C1 NO 1
ENC ALT C2 NO 26
ENC ALT C4 NO 84
ENC ALT D2 NO 27
ENC ALT D4 NO 13
ENC ALT COMMON 69
MUT SUP P 94
MUT SUP RTN 80
RESERVED 91
XPDR OFF NO 71
XPDR +28V PWR 8
XPDR +28V RTN 9
RESERVED 7
RESERVED 20
RESERVED 83
RESERVED 72

ALTITUDE ENCODER

P/O
NAVIGATION
UNIT
RNZ-850/1

P/O
RMU
RM-850
(* DENOTES LOWER
CASE LETTER).

RCB 1 RX P 28
RCB 1 RX N 15
RCB 1 TX P 81
RCB 1 TX N 95
RCB 2 RX P 68
RCB 2 RX N 53
RCB 2 TX P 82
RCB 2 TX N 96
AUX AUD 1 HI 66
AUX AUD 1 LO 50
AUX AUD 2 HI (USE FOR NAV 3) 38
AUX AUD 2 LO (USE FOR NAV 3) 49
AUX AUD 3 HI 52
AUX AUD 3 LO 51
AUX AUD 4 HI 62
AUX AUD 4 LO 34
GND (AUDIO SHIELDS) 40
HF COM DISABLE NO 39
HF COM XMIT NO 37
AUDIO STATUS 1 NO 76
AUDIO STATUS 2 NO 48
AUDIO STATUS 3 NO 36
RESERVED FOR COM 422A 23
RESERVED FOR COM 422B 32
RESERVED FOR XPDR 422A 47
RESERVED FOR XPDR 422B 63
RESERVED FOR XPDR RSV 5 64
RESERVED FOR CLUSTER 429A 65
RESERVED FOR CLUSTER 429B 73
RESERVED FOR TCAS 429A 75
RESERVED FOR COM EMERGENCY NO 77
SPARE DO NOT USE 78
RESERVED FOR TCAS 429B 79
RESERVED FOR XPDR 4 55
RESERVED FOR XPDR 3 87
RESERVED FOR XPDR 2 90
RESERVED FOR XPDR 1 104
RESERVED FOR SQUITTER ENABLE RTN 105
+28V FAN PWR 2
+28V FAN RTN 54
RESERVED FOR FLASH PGRM NO 3
COM STRAP LOAD N 102
COM STRAP CLK N 88
COM STRAP DATA P 101
COM STRAP +5V 16
COM STRAP GND 43
RESERVED FOR STRAP DATA OUT P 103
RESERVED FOR STRAP WRITE N 89

(RED)
(BLUE)

FAN

ORN
BLU
WHT
RED
BLK
YEL
GRN

STRAP ASSY
(MOUNTED ON
REAR OF MOUNT)
KIT PART NUMBER
7510359-951

WHT
BLK
WHT
BLK
BLK
NC
NC

STRAP ASSY
(REMOTE MOUNTED)
PART OF KIT
PART NUMBER
7510359-953

REV		REVISIONS		DATE		APPROVED	
ZONE	REV	DESCRIPTION	DATE	DATE	DATE	DATE	DATE
B-07	H	ADD THIS SHEET.	5/97/7/8	5/97/7/8	5/97/7/8	5/97/7/8	5/97/7/8
B-07	J	UNIT SCHEM: REF DES J1: PIN NO. 71 (GND) REF.	5/97/7/8	5/97/7/8	5/97/7/8	5/97/7/8	5/97/7/8
B-07	N	SEE SH 1. UNIT SCHEM: J1-23, J1-32, J1-47, J1-63, J1-64, J1-65, J1-73, J1-75, J1-77, J1-79 AND J1-79.1. FUNCTION WAS SPARE. WAS SH 4.	5/97/7/8	5/97/7/8	5/97/7/8	5/97/7/8	5/97/7/8
P	P	UNIT SCHEM: J1-23, J1-32, J1-47, J1-63, J1-64, J1-65, J1-73, J1-75, J1-77, J1-79 AND J1-79.1. FUNCTION WAS SPARE. WAS SH 4.1. ADD SIGNAL NAME J1-2 AND J1-51. WAS COM +28V.	5/97/7/8	5/97/7/8	5/97/7/8	5/97/7/8	5/97/7/8



P/O
COMMUNICATION
UNIT

RCZ-851B TCAS TO XPDR 429A
/833B/854A TCAS TO XPDR 429B

XPDR TO TCAS 429A
XPDR TO TCAS 429B

(FOR COM
FUNCTIONS
SEE SH 3)

MUT SUP P

XPDR TO DLP A B 429A
XPDR TO DLP A B 429B

XPDR TO DLP C D 429A
XPDR TO DLP C D 429B

DLP A B TO XPDR 429A
DLP A B TO XPDR 429B

DLP C D TO XPDR 429A
DLP C D TO XPDR 429B

FMS TO XPDR 429A
FMS TO XPDR 429B

ADC1 TO XPDR 429 575A
ADC1 TO XPDR 429 575B

ADC2 TO XPDR 429 575A
ADC2 TO XPDR 429 575B

ENC ALT1 D4 NO
ENC ALT1 D2 NO
ENC ALT1 C4 NO
ENC ALT1 C2 NO
ENC ALT1 C1 NO
ENC ALT1 B4 NO
ENC ALT1 B2 NO
ENC ALT1 B1 NO
ENC ALT1 A4 NO
ENC ALT1 A2 NO
ENC ALT1 A1 NO

ENC ALT2 D4 NO
ENC ALT2 D2 NO
ENC ALT2 C4 NO
ENC ALT2 C2 NO
ENC ALT2 C1 NO
ENC ALT2 B4 NO
ENC ALT2 B2 NO
ENC ALT2 B1 NO
ENC ALT2 A4 NO
ENC ALT2 A2 NO
ENC ALT2 A1 NO

ALT SRC SEL2 NO
ALT COMP ENA NO
ALT VALID NO
SQUAT SWITCH 1 NO
SQUAT SWITCH 2 NO

XPDR OFF NO

XPDR ACTIVE NO
XPDR VALID NO
XPDR VALID PO

XPDR +28V PWR
XPDR +28V PWR

XPDR +28V RTN
XPDR +28V RTN
XPDR +28V RTN
XPDR +28V RTN
XPDR +28V RTN
XPDR +28V RTN
PLNZ PIN

J5

40

41

26

27

3

28

29

30

31

42

43

44

45

64

65

32

33

46

47

57

56

55

54

53

71

70

69

68

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58

84

83

82

81

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98

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96

95

94

85

60

59

102

73

75

74

99

100

23

8

9

7

20

17

18

19

21

106

J6

J2

J7 P2

J4 P1

TCAS

J1A

A42

P/O
NAVIGATION
UNIT
RNZ-850/1

AIRBORNE
DATA LINK
PROCESSOR

FMS

AIR DATA
SYSTEM #1

AIR DATA
SYSTEM #2

D4
D2
C4
C2
C1
B4
B2
B1
A4
A2
A1
COMMON

D4
D2
C4
C2
C1
B4
B2
B1
A4
A2
A1
COMMON

ALTIMETER SELECT SWITCH
GILHAM COMPARE SWITCH
ALTITUDE VALID STATUS

RESERVED 12 19

A/C STRUT SWITCH

P/O
RMU
RM-850
(* DENOTES LOWER
CASE LETTER).

ANTENNA SIDE RELAY
XPDR VALID STATUS
XPDR VALID STATUS

TO SHEET 9

CIR BREAKER 5 AMPS

+28V AVIONICS BUS

+28V AVIONICS BUS RETURN

TOP ANTENNA 18

BOTTOM ANTENNA 18

REVISIONS		REVISIONS	
ZONE	REV	DESCRIPTION	DATE
B2	T	UOTD SCHEM: ADD NOTE 27 REF.	107406 LM
AB	U	UOTD SCHEM: P/O COMMUNICATION UNIT: ADD RCZ-851B REF.	107419 LM

REVISIONS		REVISIONS	
ZONE	REV	DESCRIPTION	DATE
F	F	ADDED THIS SHEET.	42980 LM
H	H	UOTD SCHEM: UOTD REFS.	56877 LM
J	J	UOTD SCHEM: REF DES J5: PIN NO. 74 UOTD REF.	56811 LM
B-03	B-03	SEE SH 1.	56811 LM
AB	AB	UOTD SCHEM: REF P/O ... 851B WAS P/O ...	92352 LM
P	P	UOTD SCHEM: UOTD SIGNAL NAMES, P/O COMMUNICATION ... 8338 WAS P/O ...	96447 LM

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THE FIRST SHEET OF THIS DOCUMENT
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SIZE/CAGE CODE
D155939

DRAWING NO.
7510708

REV
U

J5

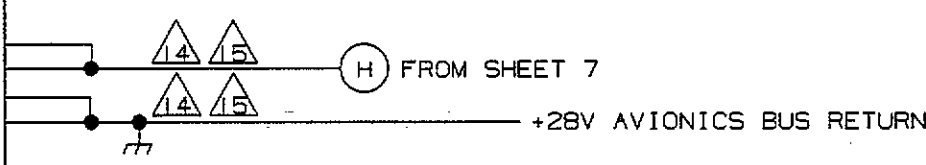
8840A Nov 18, 1999 15: 18 MS:

P/O PILOT COMMUNICATION UNIT
RCZ-851B

(FOR COM FUNCTIONS SEE SH 3)

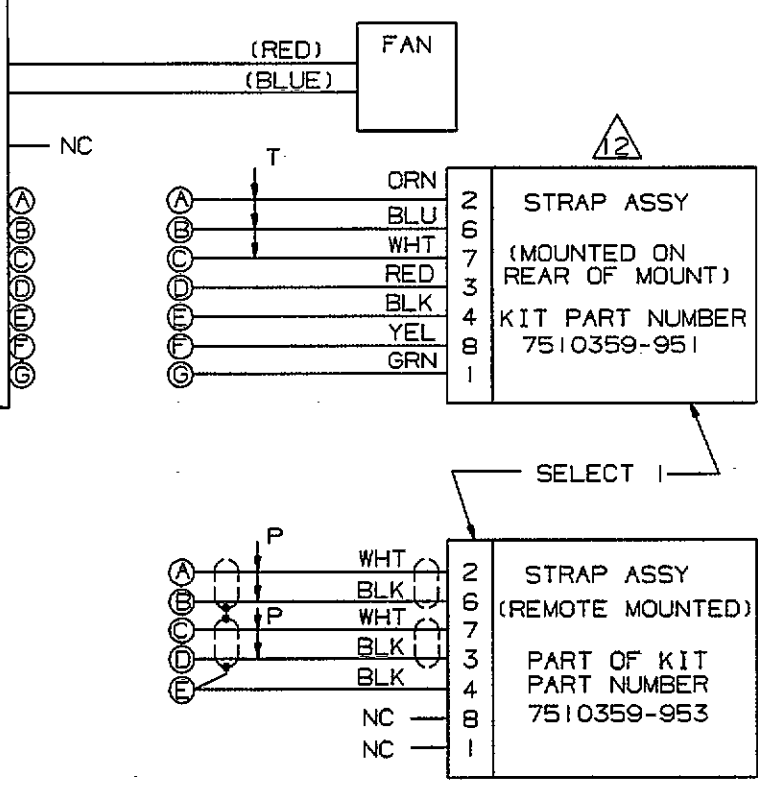
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- RESERVED FOR ADC1 TO XPDR 429 575A
- RESERVED FOR XPDR TO DLP C D 429A
- RESERVED FOR ADC1 TO XPDR 429 575B
- RESERVED FOR DLP C D TO XPDR 429B
- RESERVED FOR ADC2 TO XPDR 429 575A
- RESERVED FOR DLP A B TO XPDR 429B
- RESERVED FOR XPDR TO DLP A B 429B
- RESERVED FOR XPDR TO DLP C D 429B
- RESERVED FOR XPDR TO DLP A B 429A
- RESERVED FOR DLP A B TO XPDR 429A
- RESERVED FOR ADC2 TO XPDR 429 575B
- RESERVED FOR MUT SUPPR P
- RESERVED FOR ALT SRC SEL2 NO
- RESERVED FOR XPDR ACTIVE NO
- RESERVED FOR XPDR OFF NO
- XPDR +28V PWR
- XPDR +28V RTN
- RESERVED FOR SQUAT SWITCH NO
- RESERVED FOR SQUAT SWITCH RTN

- J1
- 98
- 99
- 97
- 86
- 85
- 100
- 1
- 26
- 84
- 27
- 13
- 69
- 94
- 80
- 91
- 71
- 8
- 9
- 7
- 20
- 83
- 72



- RCB 1 Rx P
- RCB 1 Rx N
- RCB 1 Tx P
- RCB 1 Tx N
- RCB 2 Rx P
- RCB 2 Rx N
- RCB 2 Tx P
- RCB 2 Tx N
- AUX AUD 1 HI
- AUX AUD 1 LO
- AUX AUD 2 HI (USE FOR NAV 3)
- AUX AUD 2 LO (USE FOR NAV 3)
- AUX AUD 3 HI
- AUX AUD 3 LO
- AUX AUD 4 HI
- AUX AUD 4 LO
- GND (AUDIO SHIELDS)
- HF COM DISABLE NO
- HF COM XMIT NO
- AUDIO STATUS 1 NO
- AUDIO STATUS 2 NO
- AUDIO STATUS 3 NO
- RESERVED FOR COM 422A
- RESERVED FOR COM 422B
- RESERVED FOR XPDR 422A
- RESERVED FOR XPDR 422B
- RESERVED FOR XPDR RSV 5
- RESERVED FOR CLUSTER 429A
- RESERVED FOR CLUSTER 429B
- RESERVED FOR TCAS 429A
- RESERVED FOR COM EMERGENCY NO
- SPARE DO NOT USE
- RESERVED FOR TCAS 429B
- RESERVED FOR XPDR 4
- RESERVED FOR XPDR 3
- RESERVED FOR XPDR 2
- RESERVED FOR XPDR 1
- RESERVED FOR SQUITTER ENABLE RTN
- +28V FAN PWR
- +28V FAN RTN
- RESERVED FOR FLASH PGRM NO
- COM STRAP LOAD N
- COM STRAP CLK N
- COM STRAP DATA P
- COM STRAP +5V
- COM STRAP GND
- RESERVED FOR STRAP DATA OUT P
- RESERVED FOR STRAP WRITE N

- J1
- 28
- 15
- 81
- 95
- 68
- 53
- 82
- 96
- 66
- 50
- 38
- 49
- 52
- 51
- 62
- 34
- 40
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- 37
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- 73
- 75
- 77
- 78
- 79
- 55
- 87
- 90
- 104
- 105
- 2
- 54
- 3
- 102
- 88
- 101
- 16
- 43
- 103
- 89



REV		REVISIONS		DATE		APPROVED	
ZONE	REV	DESCRIPTION					
F		ADD THIS SH.	420901M	15AUG91	15AUG91	JM	
H		UDTD SCHEM: UOTD REFS.	559271B	15AUG92	J. TROXEL	BL	
N		UDTD SCHEM: J1-23, J1-35, J1-47, J1-63, J1-64, J1-65, J1-72, J1-73, J1-78 AND J1-79: FUNCTION WAS SPARE. WAS SH 6. 92352 (M)	027806	25JAN93	25JAN93	UNVIS	CB
P		UDTD SCHEM: SIGNAL NAMES EXTENSIVELY REVISED.	95447 (M)	31MAY93	31MAY93	CB	

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SIZE/CAGE CODE: D 55939

PRINTING NO.: 7510708

REV: P

COMPUTER GENERATED

P/O PILOT COMMUNICATION UNIT
RCZ-851C/851H

(FOR COM FUNCTIONS SEE SH 3)

RESERVED FOR DLP C D TO XPDR 429A 98
RESERVED FOR ADC1 TO XPDR 429 575A 99
RESERVED FOR XPDR TO DLP C D 429A 97
RESERVED FOR ADC1 TO XPDR 429 575B 86
RESERVED FOR DLP C D TO XPDR 429B 85
RESERVED FOR ADC2 TO XPDR 429 575A 100
RESERVED FOR DLP A B TO XPDR 429B 1
RESERVED FOR XPDR TO DLP A B 429B 26
RESERVED FOR XPDR TO DLP C D 429B 84
RESERVED FOR XPDR TO DLP A B 429A 27
RESERVED FOR DLP A B TO XPDR 429A 13
RESERVED FOR ADC2 TO XPDR 429 575B 69
RESERVED FOR MUT SUPPR P 94
RESERVED FOR ALT SRC SEL2 NO 80
RESERVED FOR XPDR ACTIVE NO 91
RESERVED FOR XPDR OFF NO 71
RESERVED FOR XPDR +28V PWR 8
RESERVED FOR XPDR +28V PWR 9
RESERVED FOR XPDR +28V RTN 7
RESERVED FOR XPDR +28V RTN 20
RESERVED FOR SQUAT SWITCH NO 83
RESERVED FOR SQUAT SW RETURN 72

RCB 1 RX P 28
RCB 1 RX N 15
RCB 1 TX P 81
RCB 1 TX N 95
RCB 2 RX P 68
RCB 2 RX N 53
RCB 2 TX P 82
RCB 2 TX N 96

AUX AUD 1 HI 66
AUX AUD 1 LO 50
AUX AUD 2 HI (USE FOR NAV 3) 38
AUX AUD 2 LO (USE FOR NAV 3) 49
AUX AUD 3 HI 52
AUX AUD 3 LO 51
AUX AUD 4 HI 62
AUX AUD 4 LO 34
GND (AUDIO SHIELDS) 40

HF COM DISABLE NO 39
HF COM XMIT NO 37
AUDIO STATUS 1 NO 76
AUDIO STATUS 2 NO 48
AUDIO STATUS 3 NO 36

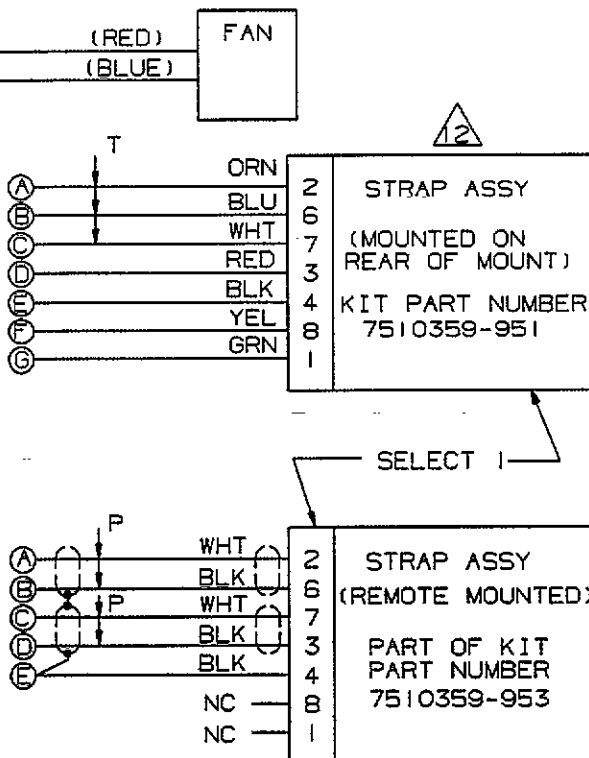
RESERVED FOR COM 422A 23
RESERVED FOR COM 422B 32
RESERVED FOR XPDR 422A 47
RESERVED FOR XPDR 422B 63
RESERVED FOR XPDR RSV 5 64
RESERVED FOR CLUSTER 429A 65
RESERVED FOR CLUSTER 429B 73
RESERVED FOR TCAS 429A 75
RESERVED FOR COM EMERGENCY NO 77
SPARE DO NOT USE 78
RESERVED FOR TCAS 429B 79

RESERVED FOR XPDR 4 55
RESERVED FOR XPDR 3 87
RESERVED FOR XPDR 2 90
RESERVED FOR XPDR 1 104
RESERVED FOR SQUITTER ENABLE RTN 105

+28V FAN PWR 2
+28V FAN RTN 54

RESERVED FOR FLASH PGRM NO 3

COM STRAP LOAD N 102
COM STRAP CLK N 88
COM STRAP DATA P 101
COM STRAP +5V 16
COM STRAP GND 43
RESERVED FOR STRAP DATA OUT P 103
RESERVED FOR STRAP WRITE N 89



NO.	7510708	SH	10	1
ZONE	REV	DESCRIPTION	DATE	APPROVED
E	ADD THIS SH.			
B4.6	UOTO SCHEM: REF DES J1 WAS P1/J1. ADD	45210(NM)	24AUG90	T. ELUGORA
F	REF DES J1.	42900(NM)	15AUG91	T. ELUGORA
H	UOTO SCHEM: UOTO REF'S. WAS SH 5.	56877(B)	15AUG92	J. THORPE
K	UOTO SCHEM: REF DES J1: P1N 28, 15, B1 AND 65 REF WAS: EXT XPDR ROB RX(P), EXT XPDR ROB TX(IN) RESP.	014443	01JUL93	J. THORPE
M	UOTO SCHEM: REF P/O PILOT ... 851H WAS	83616(NM)	25OCT94	R. PULLEN
N	UOTO SCHEM: J1-23, J1-32, J1-47, J1-63, J1-64, J1-65, J1-73, J1-75, J1-76 AND J1-78: FUNCTION WAS SPARE. WAS SH 9.	92352(NM)	02FEB96	T. ELUGORA
P	UOTO SCHEM: SIGNAL NAMES EXTENSIVELY REVISED.	96447(NM)	01JUN97	D. WATTS

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DRAWING NO. 7510708
SHEET 10

P/O
COMMUNICATION
UNIT

RCZ-851E/851F/ TCAS TO XPDR 429A
851G/854E/854F/ TCAS TO XPDR 429B
854G/833E/833F/ XPDR TO TCAS 429A
833G XPDR TO TCAS 429B

(FOR COM
FUNCTIONS
SEE SH 3)

MUT SUP P

XPDR TO DLP A B 429A
XPDR TO DLP A B 429B
XPDR TO DLP C D 429A
XPDR TO DLP C D 429B
DLP A B TO XPDR 429A
DLP A B TO XPDR 429B
DLP C D TO XPDR 429A
DLP C D TO XPDR 429B

ADC1 TO XPDR 429 575A
ADC1 TO XPDR 429 575B

ADC2 TO XPDR 429 575A
ADC2 TO XPDR 429 575B

ALT SRC SEL2 NO
SQUAT SWITCH NO

XPDR OFF NO

XPDR ACTIVE NO

XPDR +28V PWR
XPDR +28V PWR

XPDR +28V RTN
XPDR +28V RTN

J1

90
104
55
87

94

27
26
97
84
13
1
98
85

99
86

100
69

80
83

71

91

8
9

7
20

J6

J2

J7 P2

J4 P1

TOP ANTENNA 18

BOTTOM ANTENNA 18

TCAS

AIRBORNE
DATA LINK
PROCESSOR

AIR DATA
SYSTEM #1

AIR DATA
SYSTEM #2

ALTIMETER SELECT SWITCH

A/C STRUT SWITCH 12 19

ANTENNA SIDE RELAY

CIR BREAKER 5 AMPS

+28V AVIONICS BUS

+28V AVIONICS BUS RETURN

J1A
A42

P/O
NAVIGATION
UNIT
RNZ-850/1

P/O
RMU
RM-850
(* DENOTES LOWER
CASE LETTER).

ZONE	REV	DESCRIPTION	DATE	APPROVED
H	1	ADD THIS SHEET.	5/27/81	T. EUROPA
C, D5	J	UNIT SCHEM: REF DES J1: PIN NO. 71 UNIT REF. 68311 (M)	6/JUN/82	J. THOMAS
A9 B, 7, 8	K	SEE SH 1. UNIT SCHEM: P/O COMMUNICATION --- 851G WAS P/O --- 851E. ADD NOTE 26 (3X) AND 27 (2X) REF. 62862 (M)	01/JUL/83	J. THOMAS
A8	N	UNIT SCHEM: REF P/O --- 861G WAS P/O --- 851G. WAS SH 10. 82352 (M)	02/FEB/86	T. EUROPA
P	P	UNIT SCHEM: UNIT SIGNAL NAMES. REF P/O COMMUNICATION --- 833E/833F/833G WAS P/O --- 851E/851F/851G. 85447 (M)	01/MAY/88	D. JAMES

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SIZE CODE
D 55939

ORIGIN NO.
7510708 P

REV
11

3231-028 (ANSI Y14.1-1980) HONEYWELL INC. 7 6 5 4 3 2 1

P/O PILOT
COMMUNICATION
UNIT

RCZ-851E/
851F/851G
(FOR COM
FUNCTIONS
SEE SH 3)

RCB 1 RX P
RCB 1 RX N
RCB 1 TX P
RCB 1 TX N
RCB 2 RX P
RCB 2 RX N
RCB 2 TX P
RCB 2 TX N

J1

28
15
81
95
68
53
82
96

AUX AUD 1 HI
AUX AUD 1 LO
AUX AUD 2 HI (USE FOR NAV 3)
AUX AUD 2 LO (USE FOR NAV 3)
AUX AUD 3 HI
AUX AUD 3 LO
AUX AUD 4 HI
AUX AUD 4 LO

66
50
38
49
52
51
62
34

GND (AUDIO SHIELDS)

40

HF COM DISABLE NO

39

HF COM XMIT NO

37

AUDIO STATUS 1 NO

76

AUDIO STATUS 2 NO

48

AUDIO STATUS 3 NO

36

RESERVED FOR COM 422A

23

RESERVED FOR COM 422B

32

RESERVED FOR XPDR 422A

47

RESERVED FOR XPDR 422B

63

RESERVED FOR XPDR RSV 5

64

RESERVED FOR CLUSTER 429A

65

RESERVED FOR CLUSTER 429B

73

RESERVED FOR TCAS 429A

75

RESERVED FOR COM EMERGENCY NO

77

SPARE DO NOT USE

78

RESERVED FOR TCAS 429B

79

RESERVED FOR SQUITTER ENABLE RTN

105

+28V FAN PWR

2

+28V FAN RTN

54

RESERVED FOR FLASH PGRM NO

3

COM STRAP LOAD N

102

COM STRAP CLK N

88

COM STRAP DATA P

101

COM STRAP +5V

16

COM STRAP GND

43

RESERVED FOR STRAP DATA OUT P

103

RESERVED FOR STRAP WRITE N

89

(RED)
(BLUE)

FAN

ORN
BLU
WHT
RED
BLK
YEL
GRN

STRAP ASSY

(MOUNTED ON
REAR OF MOUNT)

KIT PART NUMBER
7510359-951

SELECT 1

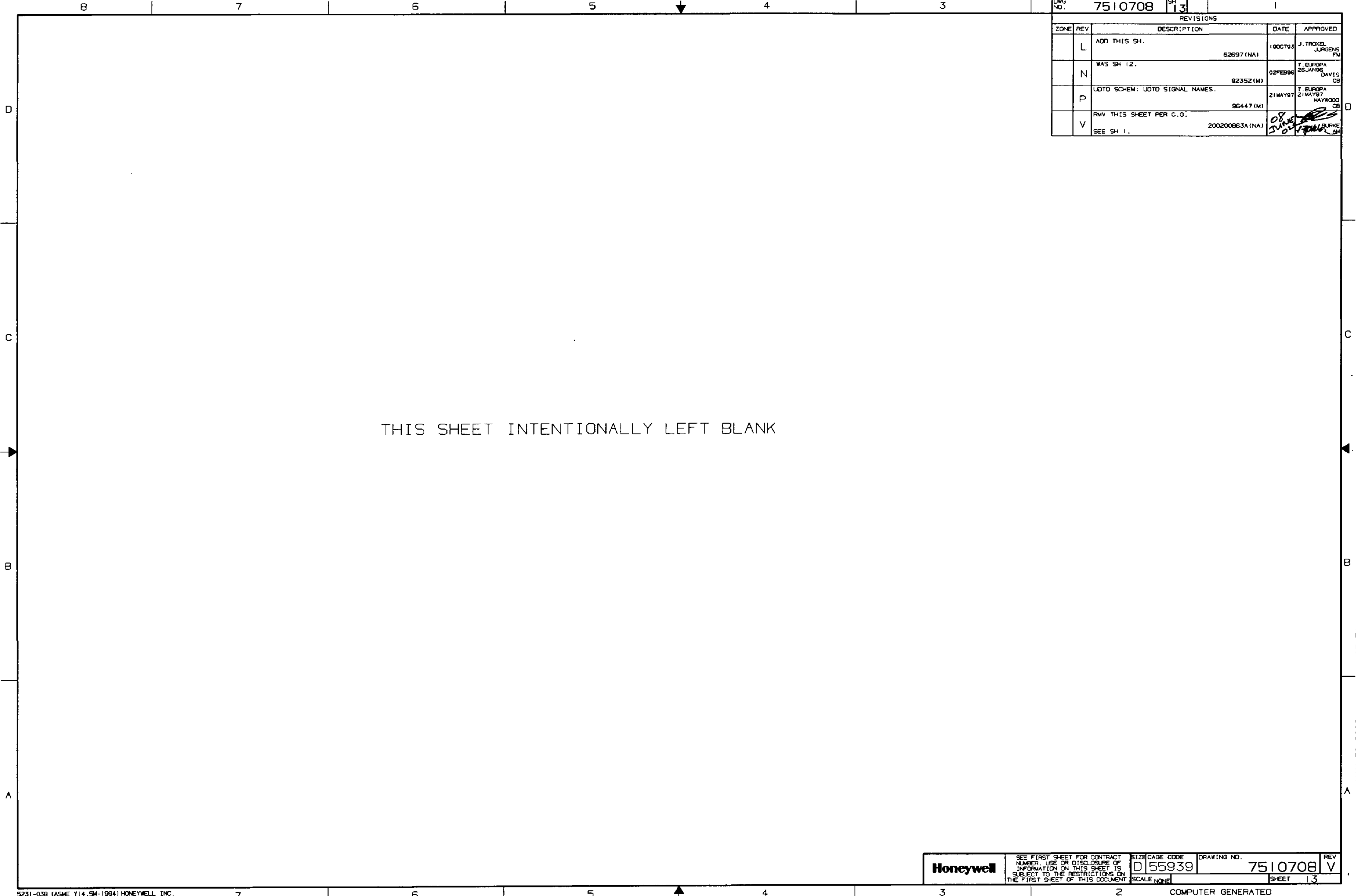
WHT
BLK
WHT
BLK
BLK
NC
NC

STRAP ASSY

(REMOTE MOUNTED)

PART OF KIT
PART NUMBER
7510359-953

NO.		7510708		12		1	
ZONE		REV		REVISIONS			
		DESCRIPTION		DATE		APPROVED	
	H	ADD THIS SH.		5/8/77 (B)	15MAR78	J. THORP, RJ	
	K	SCHEM: P/O PILOT COMMUNICATION --- 851G WAS P/O PILOT --- RCZ-851E.		01JUL83		J. THORP, RJ B. L. W.	
B6	N	UOTO SCHEM: J1-23, J1-24, J1-25, J1-26, J1-27, J1-28, J1-29, J1-30, J1-31, J1-32, J1-33, J1-34, J1-35, J1-36, J1-37, J1-38, J1-39, J1-40, J1-41, J1-42, J1-43, J1-44, J1-45, J1-46, J1-47, J1-48, J1-49, J1-50, J1-51, J1-52, J1-53, J1-54, J1-55, J1-56, J1-57, J1-58, J1-59, J1-60, J1-61, J1-62, J1-63, J1-64, J1-65, J1-66, J1-67, J1-68, J1-69, J1-70, J1-71, J1-72, J1-73, J1-74, J1-75, J1-76, J1-77, J1-78, J1-79, J1-80, J1-81, J1-82, J1-83, J1-84, J1-85, J1-86, J1-87, J1-88, J1-89, J1-90, J1-91, J1-92, J1-93, J1-94, J1-95, J1-96, J1-97, J1-98, J1-99, J1-100, J1-101, J1-102, J1-103, J1-104, J1-105, J1-106, J1-107, J1-108, J1-109, J1-110, J1-111, J1-112, J1-113, J1-114, J1-115, J1-116, J1-117, J1-118, J1-119, J1-120, J1-121, J1-122, J1-123, J1-124, J1-125, J1-126, J1-127, J1-128, J1-129, J1-130, J1-131, J1-132, J1-133, J1-134, J1-135, J1-136, J1-137, J1-138, J1-139, J1-140, J1-141, J1-142, J1-143, J1-144, J1-145, J1-146, J1-147, J1-148, J1-149, J1-150, J1-151, J1-152, J1-153, J1-154, J1-155, J1-156, J1-157, J1-158, J1-159, J1-160, J1-161, J1-162, J1-163, J1-164, J1-165, J1-166, J1-167, J1-168, J1-169, J1-170, J1-171, J1-172, J1-173, J1-174, J1-175, J1-176, J1-177, J1-178, J1-179, J1-180, J1-181, J1-182, J1-183, J1-184, J1-185, J1-186, J1-187, J1-188, J1-189, J1-190, J1-191, J1-192, J1-193, J1-194, J1-195, J1-196, J1-197, J1-198, J1-199, J1-200, J1-201, J1-202, J1-203, J1-204, J1-205, J1-206, J1-207, J1-208, J1-209, J1-210, J1-211, J1-212, J1-213, J1-214, J1-215, J1-216, J1-217, J1-218, J1-219, J1-220, J1-221, J1-222, J1-223, J1-224, J1-225, J1-226, J1-227, J1-228, J1-229, J1-230, J1-231, J1-232, J1-233, J1-234, J1-235, J1-236, J1-237, J1-238, J1-239, J1-240, J1-241, J1-242, J1-243, J1-244, J1-245, J1-246, J1-247, J1-248, J1-249, J1-250, J1-251, J1-252, J1-253, J1-254, J1-255, J1-256, J1-257, J1-258, J1-259, J1-260, J1-261, J1-262, J1-263, J1-264, J1-265, J1-266, J1-267, J1-268, J1-269, J1-270, J1-271, J1-272, J1-273, J1-274, J1-275, J1-276, J1-277, J1-278, J1-279, 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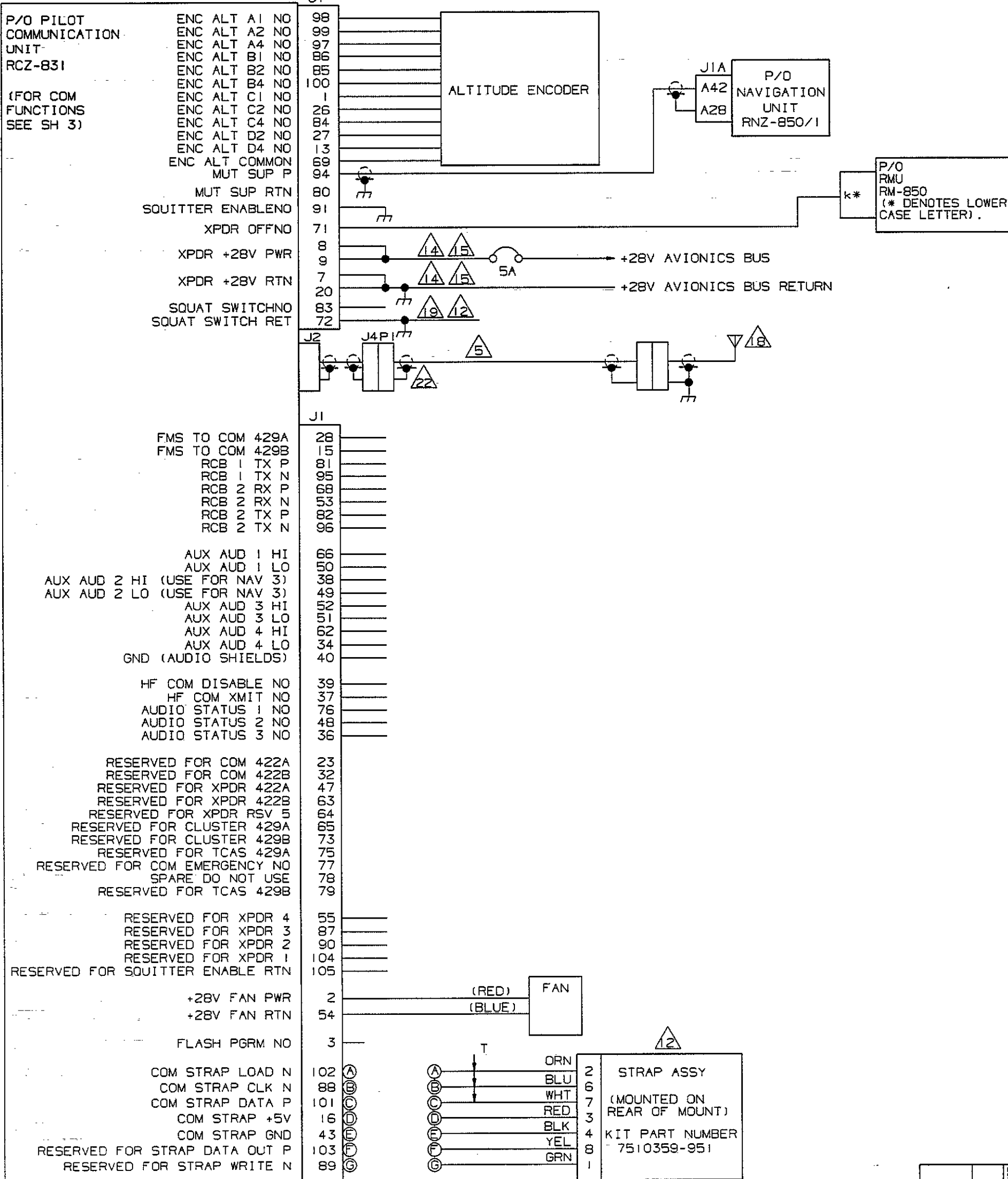
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Honeywell	SEE FIRST SHEET FOR CONTRACT NUMBER. USE OR DISCLOSURE OF INFORMATION ON THIS SHEET IS SUBJECT TO THE RESTRICTIONS ON THE FIRST SHEET OF THIS DOCUMENT.	SIZE/CAGE CODE	DRAWING NO.	REV
		D 55939	7510708	V
		SCALE NONE	SHEET	14

5231-029 (ANSI Y14.1-1980) HONEYWELL INC. 7 6 5 4 3 2 1



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SIZE CASE CODE D 55939

DRAWING NO. 7510708

REV. P

COMPUTER GENERATED

NO. 7510708		54		15		REVISIONS		1	
ZONE	REV	DESCRIPTION				DATE	APPROVED		
	N	ADD THIS SHEET.				02/09/86	I. EUROPA 36 JAMES DAVIS		
	P	UNIT SCHEM: P/O PILOT --- B31 WAS P/O 77-86, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90; SIGNAL NAMES EXTENSIVELY REVISED SIGNAL NAME WAS PROG MODE: J1-2 AND J1-54; *28V --- WAS COM *28V ---.				0235Z (M)	96447 (M)		
						96447 (M)			

07 MAY 10-91
8840A May 6, 1997 16:06 MS:
COMPUTER GENERATED
SHEET 16

P/O PILOT
COMMUNICATION
UNIT
RCZ-833D
(FOR COM
FUNCTIONS
SEE SH 3)

ENC ALT A1 NO
ENC ALT A2 NO
ENC ALT A4 NO
ENC ALT B1 NO
ENC ALT B2 NO
ENC ALT B4 NO
ENC ALT C1 NO
ENC ALT C2 NO
ENC ALT C4 NO
ENC ALT D2 NO
ENC ALT D4 NOP
ENC ALT COMMON
MUT SUP P
MUT SUP RTN
RESERVED
XPDR OFF NO
XPDR +28V PWR
XPDR +28V RTN
RESERVED
RESERVED

J1
98
99
97
86
85
100
1
26
84
27
13
69
94
80
91
71
8
9
7
20
83
72

ALTITUDE ENCODER

J1A
A42
A28
P/O
NAVIGATION
UNIT
RNZ-850/1

P/O
RMU
RM-850
(* DENOTES LOWER
CASE LETTER).

+28V AVIONICS BUS
+28V AVIONICS BUS RETURN

J2
J4P1
J1

FMS TO COM 429A
FMS TO COM 429B
RCB 1 TX P
RCB 1 TX N
RCB 2 RX P
RCB 2 RX N
RCB 2 TX P
RCB 2 TX N

28
15
81
95
68
53
82
96

AUX AUD 1 HI
AUX AUD 1 LO
AUX AUD 2 HI (USE FOR NAV 3)
AUX AUD 2 LO (USE FOR NAV 3)
AUX AUD 3 HI
AUX AUD 3 LO
AUX AUD 4 HI
AUX AUD 4 LO
GND (AUDIO SHIELDS)

66
50
38
49
52
51
62
34
40

HF COM DISABLE NO
HF COM XMIT NO
AUDIO STATUS 1 NO
AUDIO STATUS 2 NO
AUDIO STATUS 3 NO

39
37
76
48
36

RESERVED FOR COM 422A
RESERVED FOR COM 422B
RESERVED FOR XPDR 422A
RESERVED FOR XPDR 422B
RESERVED FOR XPDR RSV 5
RESERVED FOR CLUSTER 429A
RESERVED FOR CLUSTER 429B
RESERVED FOR TCAS 429A
RESERVED FOR COM EMERGENCY NO
SPARE DO NOT USE
RESERVED FOR TCAS 429B

23
32
47
63
64
65
73
75
77
78
79

RESERVED FOR XPDR 4
RESERVED FOR XPDR 3
RESERVED FOR XPDR 2
RESERVED FOR XPDR 1
RESERVED FOR SQUITTER ENABLE RTN

55
87
90
104
105

+28V FAN PWR
+28V FAN RTN

2
54

FLASH PGRM NO

3

COM STRAP LOAD N
COM STRAP CLK N
COM STRAP DATA P
COM STRAP +5V
COM STRAP GND
RESERVED FOR STRAP DATA OUT
RESERVED FOR STRAP WRITE N

102
88
101
16
43
103
89

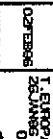
(RED)
(BLUE)

FAN

ORN
BLU
WHT
RED
BLK
YEL
GRN

STRAP ASSY
(MOUNTED ON
REAR OF MOUNT)
KIT PART NUMBER
7510359-951

STRAP ASSY
(REMOTE MOUNTED)
PART OF KIT
PART NUMBER
7510359-953

ORIG NO.	7510708	54	16			1
REVISIONS						
ZONE	REV	DESCRIPTION	DATE	APPROVED		
	N	ADD THIS SHEET.	02/28/88	T. GUNDA DAVIS	CB	
	P	UNIT SCHEM: P/O PILOT --- 8330 WAS P/O --- 8610. UNIT SIGNAL NAMES. J1-39, 48, 77, 781, 855, 871, 881, 891, 901, 104, 105, 140, 103, SIGNAL NAMES EXTERNALLY. REVISIO. J1-33-54, SIGNAL NAMES EXTERNALLY. REVISIO. J1-33-54, 487 --- WAS COM 4287 ---. 96447 (U)	02/28/88		CB	

P/O PILOT
COMMUNICATION
UNIT
RCZ-854E/B54F/
B54G

(FOR COM
FUNCTIONS
SEE SH 3)

VHF COM ARINC 429 RXB A ECH
VHF COM ARINC 429 RXB B ECH
VHF COM ARINC 429 TXA A
VHF COM ARINC 429 TXA B
VHF COM ARINC 429 RXC A
VHF COM ARINC 429 RXC B
VHF COM ARINC 429 RXA A
VHF COM ARINC 429 RXA B

AUX AUDIO 1 HI
AUX AUDIO 1 LO
AUX AUDIO 2 HI (USE FOR NAV 3)
AUX AUDIO 2 LO (USE FOR NAV 3)
AUX AUDIO 3 HI
AUX AUDIO 3 LO
VHF COM DATA AUDIO IN HI
VHF COM DATA AUDIO IN LO
GND (AUDIO SHIELDS)

HF COM DISABLE NO
HF COM XMIT NO
AUDIO STATUS 1 NO
VHF COM VOICE DATA SELECT IN
VHF COM VOICE DATA KEY IN

COM 422A
COM 422B
XPDR 422A
XPDR 422B
XPDR RSV
VHF COM CSDB RXA HI
VHF COM CSDB RXA LO
VHF COM CSDB RXB HI
COM EMERG NO
SPARE DO NOT USE
VHF COM CSDB RXB LO

FOR SQUITTER ENA RTN

+28V FAN PWR
+28V FAN RTN

FLASH PROGRAM NO

COM STRAP LOAD N
COM STRAP CLK N
COM STRAP DATA P
COM STRAP +5V
COM STRAP GND
RESERVED FOR STRAP DATA OUT P
RESERVED FOR STRAP WRITE N

J1

28
15
81
95
68
53
82
96

66
50
38
49
52
51
62
34
40

39
37
76
48
36

23
32
47
63
64
65
73
75
77
78
79

105

2
54

3

102
88
101
16
43
103
89

A
B
C
D
E
F
G

(RED)
(BLUE)

FAN

ORN
BLU
WHT
RED
BLK
YEL
GRN

STRAP ASSY
(MOUNTED ON
REAR OF MOUNT)
KIT PART NUMBER
7510359-951

SELECT 1

WHT
BLK
WHT
BLK
BLK
NC
NC

STRAP ASSY
(REMOTE MOUNTED)
PART OF KIT
PART NUMBER
7510359-953

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STAGE CODE
D55939

PRINTING NO.
7510708

REV
R

BT REV 10-01

ZONE	REV	DESCRIPTION	DATE	APPROVED
N	ADD THIS SHEET.	22352 (M)	08/28/96	T. GILBERT 25 JAMES DAVIS
P	UNIT SCREEN: SIGNAL NAMES EXTENSIVELY REVISED.	96417 (M)	21 MAR 97	T. GILBERT 21 MAR 97
R	WAS SHEET 18.	96405 (M)	19 OCT 96	T. GILBERT 19 OCT 96

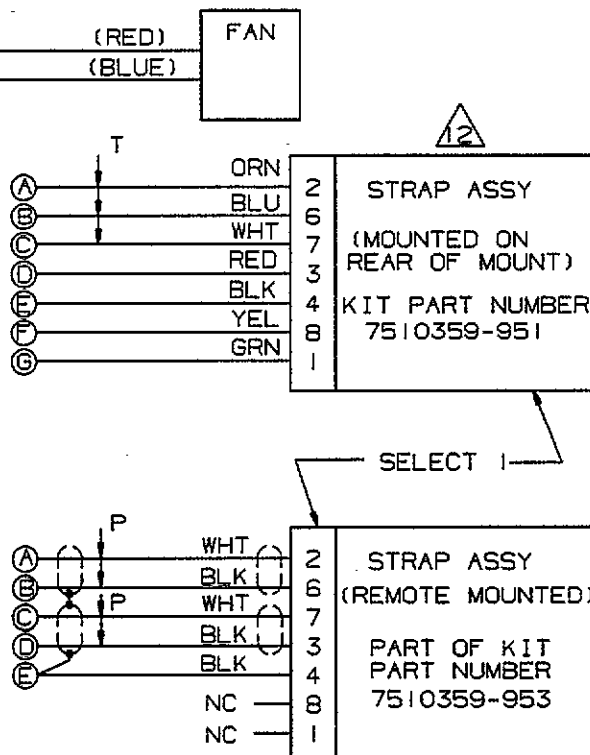
P/O PILOT COMMUNICATION UNIT
RCZ-B33C/B33H/B54H WITHOUT ACARS

(FOR COM FUNCTIONS SEE SH 3)

RESERVED FOR DLP C D TO XPDR 429A	98
RESERVED FOR ADC1 TO XPDR 429 575A	99
RESERVED FOR XPDR TO DLP C D 429A	97
RESERVED FOR ADC1 TO XPDR 429 575B	86
RESERVED FOR DLP C D TO XPDR 429B	85
RESERVED FOR ADC2 TO XPDR 429 575A	100
RESERVED FOR DLP A B TO XPDR 429B	1
RESERVED FOR XPDR TO DLP A B 429B	26
RESERVED FOR XPDR TO DLP C D 429B	84
RESERVED FOR XPDR TO DLP A B 429A	27
RESERVED FOR DLP A B TO XPDR 429A	13
RESERVED FOR ADC2 TO XPDR 429 575B	69
RESERVED FOR MUT SUPPR P	94
RESERVED FOR ALT SRC SEL2 NO	80
RESERVED FOR XPDR ACTIVE NO	91
RESERVED FOR XPDR OFF NO	71
RESERVED FOR XPDR +28V PWR	8
RESERVED FOR XPDR +28V PWR	9
RESERVED FOR XPDR +28V RTN	7
RESERVED FOR XPDR +28V RTN	20
RESERVED FOR SQUAT SWITCH NO	83
RESERVED FOR SQUAT SWITCH RETURN	72

FMS TO COM 429A	28
FMS TO COM 429B	15
RCB 1 TX P	81
RCB 1 TX N	95
RCB 2 RX P	68
RCB 2 RX N	53
RCB 2 TX P	82
RCB 2 TX N	96
AUX AUD 1 HI	66
AUX AUD 1 LO	50
AUX AUD 2 HI (USE FOR NAV 3)	38
AUX AUD 2 LO (USE FOR NAV 3)	49
AUX AUD 3 HI	52
AUX AUD 3 LO	51
AUX AUD 4 HI	62
AUX AUD 4 LO	34
GND (AUDIO SHIELDS)	40
HF COM DISABLE NO	39
HF COM XMIT NO	37
AUDIO STATUS 1 NO	76
AUDIO STATUS 2 NO	48
AUDIO STATUS 3 NO	36
RESERVED FOR COM 422A	23
RESERVED FOR COM 422B	32
RESERVED FOR XPDR 422A	47
RESERVED FOR XPDR 422B	63
RESERVED FOR XPDR RSV 5	64
RESERVED FOR CLUSTER 429A	65
RESERVED FOR CLUSTER 429B	73
RESERVED FOR TCAS 429A	75
RESERVED FOR COM EMERGENCY NO	77
SPARE DO NOT USE	78
RESERVED FOR TCAS 429B	79
RESERVED FOR XPDR 4	55
RESERVED FOR XPDR 3	87
RESERVED FOR XPDR 2	90
RESERVED FOR XPDR 1	104
RESERVED FOR SQUITTER ENABLE RTN	105

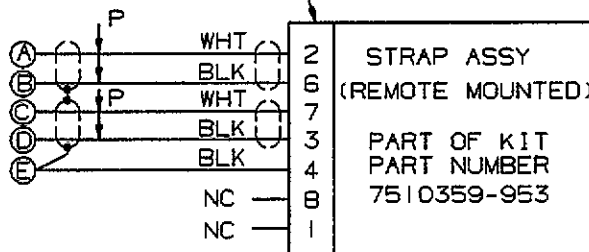
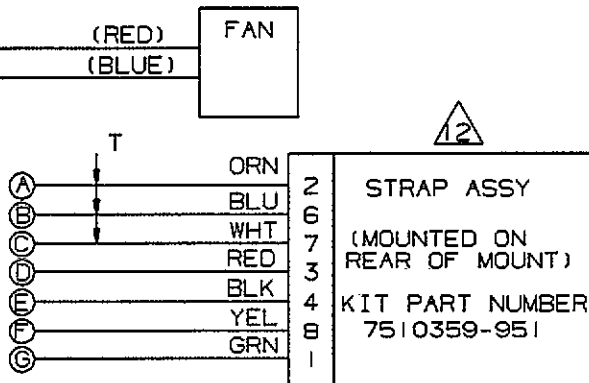
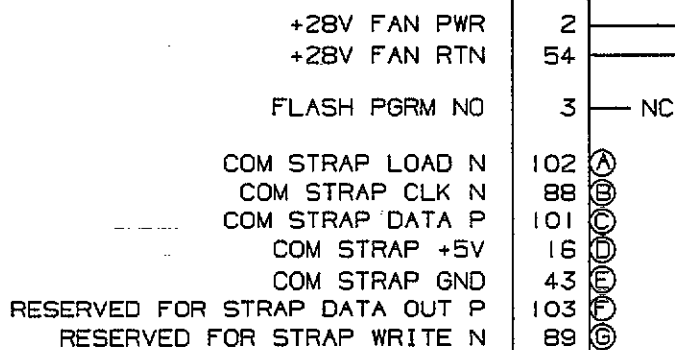
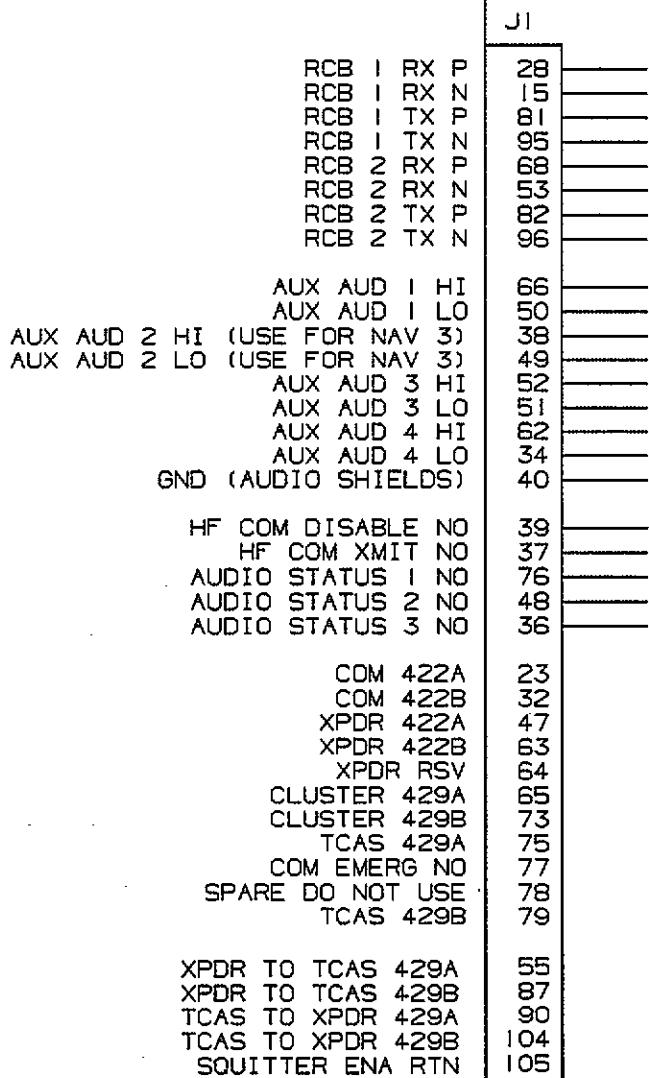
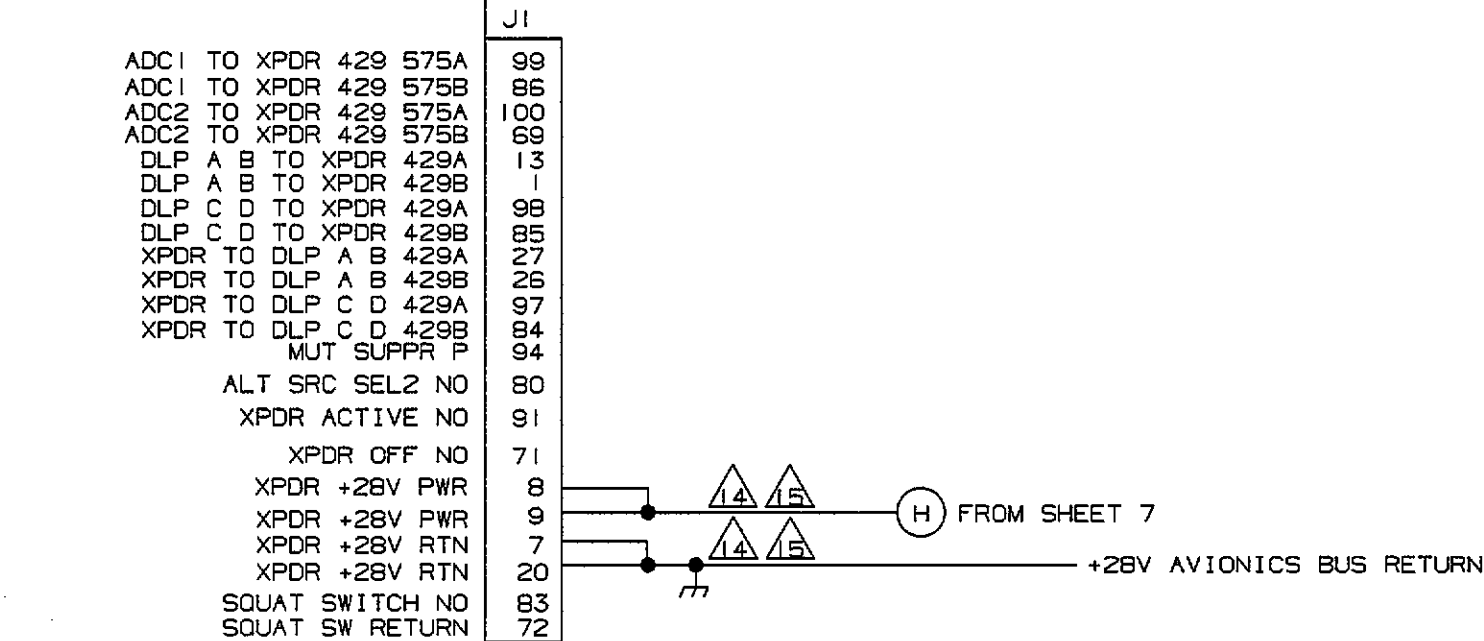
+28V FAN PWR	2
+28V FAN RTN	54
FLASH PGRM NO	3
COM STRAP LOAD N	102
COM STRAP CLK N	88
COM STRAP DATA P	101
COM STRAP +5V	16
COM STRAP GND	43
RESERVED FOR STRAP DATA OUT	103
RESERVED FOR STRAP WRITE N	89



ZONE	REV	DESCRIPTION	DATE	APPROVED
N	ADD THIS SHEET	92352 (M)	02/28/95	T. ELLIOTT
P	UNIT SCREEN: SIGNAL NAMES EXTENSIVELY REVISED.	95447 (M)	21/01/97	T. ELLIOTT
R	W/S SHEET 10.	95445 (M)	01/01/97	T. ELLIOTT

8840A Sep 15, 1997 13:32 MS:

P/O PILOT COMMUNICATION UNIT
RCZ-833B WITHOUT ACARS
(FOR COM FUNCTIONS SEE SH 3)



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SIZE CODE D155939

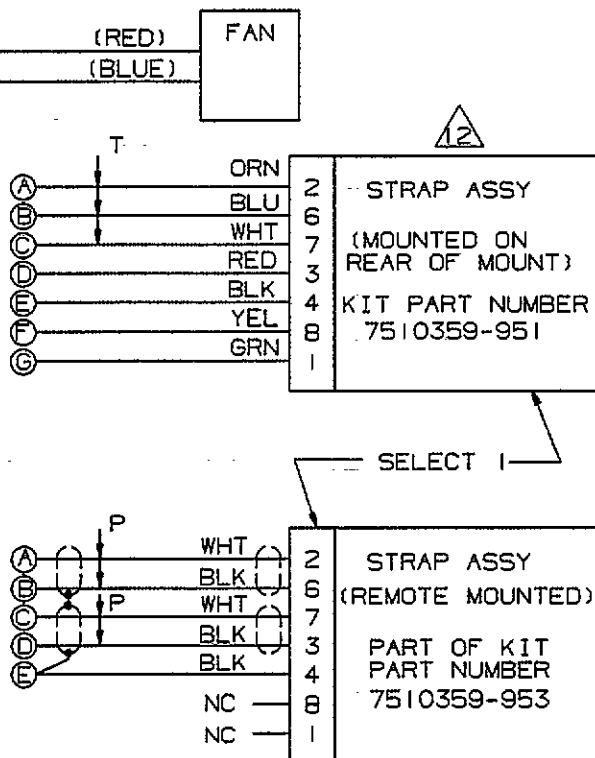
PRINTING NO. 7510708

REV R

NO.	7510708	REV	20	REVISIONS
ZONE	REV	DESCRIPTION	DATE	APPROVED
P	P	ADD THIS SHEET.	21MAR97	T. ELLIOTT
R	R	WAS SHEET 21.	21MAR97	W. WOOD
			21MAR97	

P/O PILOT COMMUNICATION UNIT
RCZ-B33E/B33F/B33G WITHOUT ACARS
(FOR COM FUNCTIONS SEE SH 3)

RCB 1 RX P	28
RCB 1 RX N	15
RCB 1 TX P	81
RCB 1 TX N	95
RCB 2 RX P	68
RCB 2 RX N	53
RCB 2 TX P	82
RCB 2 TX N	96
AUX AUD 1 HI	66
AUX AUD 1 LO	50
AUX AUD 2 HI (USE FOR NAV 3)	38
AUX AUD 2 LO (USE FOR NAV 3)	49
AUX AUD 3 HI	52
AUX AUD 3 LO	51
AUX AUD 4 HI	62
AUX AUD 4 LO	34
GND (AUDIO SHIELDS)	40
HF COM DISABLE NO	39
HF COM XMIT NO	37
AUDIO STATUS 1 NO	76
AUDIO STATUS 2 NO	48
AUDIO STATUS 3 NO	36
COM 422A	23
COM 422B	32
XPDR 422A	47
XPDR 422B	63
XPDR RSV	64
CLUSTER 429A	65
CLUSTER 429B	73
TCAS 429A	75
COM EMERG NO	77
SPARE DO NOT USE	78
TCAS 429B	79
SQUITTER ENA RTN	105
+28V FAN PWR	2
+28V FAN RTN	54
FLASH PGRM NO	3
COM STRAP LOAD N	102
COM STRAP CLK N	88
COM STRAP DATA P	101
COM STRAP +5V	16
COM STRAP GND	43
RESERVED FOR STRAP DATA OUT P	103
RESERVED FOR STRAP WRITE N	89



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SIZE/DATE CODE

55939

DRAWING NO.

7510708

SHEET

22

REV

R

COMPUTER GENERATED

ZONE	REV	DESCRIPTION	DATE	APPROVED
P	ADD THIS SHEET.	21MAR97	T. ELLIOTT	
R	WAS SHEET 23.	21MAR97	T. ELLIOTT	

P/O PILOT COMMUNICATION UNIT
RCZ-833E/B33F/B33G WITH ACARS
(FOR COM FUNCTIONS SEE SH 3)

VHF COM ARINC 429 RXB A ECH 28
VHF COM ARINC 429 RXB B ECH 15
VHF COM ARINC 429 TXA A 81
VHF COM ARINC 429 TXA B 95
VHF COM ARINC 429 RXC A 68
VHF COM ARINC 429 RXC B 53
VHF COM ARINC 429 RXA A 82
VHF COM ARINC 429 RXA B 96

AUX AUDIO 1 HI 66
AUX AUDIO 1 LO 50
AUX AUDIO 2 HI (USE FOR NAV 3) 38
AUX AUDIO 2 LO (USE FOR NAV 3) 49
AUX AUDIO 3 HI 52
AUX AUDIO 3 LO 51
VHF COM DATA AUDIO IN HI 62
VHF COM DATA AUDIO IN LO 34
GND (AUDIO SHIELDS) 40

HF COM DISABLE NO 39
HF COM XMIT NO 37
AUDIO STATUS 1 NO 76
VHF COM VOICE DATA SELECT IN 48
VHF COM VOICE DATA KEY IN 36

COM 422A 23
COM 422B 32
XPDR 422A 47
XPDR 422B 63
XPDR RSV 64
VHF COM CSDB RXA HI 65
VHF COM CSDB RXA LO 73
VHF COM CSDB RXB HI 75
COM EMERG NO 77
SPARE DO NOT USE 78
VHF COM CSDB RXB LO 79

FOR SQUITTER ENA RTN 105

+28V FAN PWR 2
+28V FAN RTN 54

FLASH PROGRAM NO 3

COM STRAP LOAD N 102
COM STRAP CLK N 88
COM STRAP DATA P 101
COM STRAP +5V 16
COM STRAP GND 43
RESERVED FOR STRAP DATA OUT P 103
RESERVED FOR STRAP WRITE N 89

J1

28
15
81
95
68
53
82
96

66
50
38
49
52
51
62
34
40

39
37
76
48
36

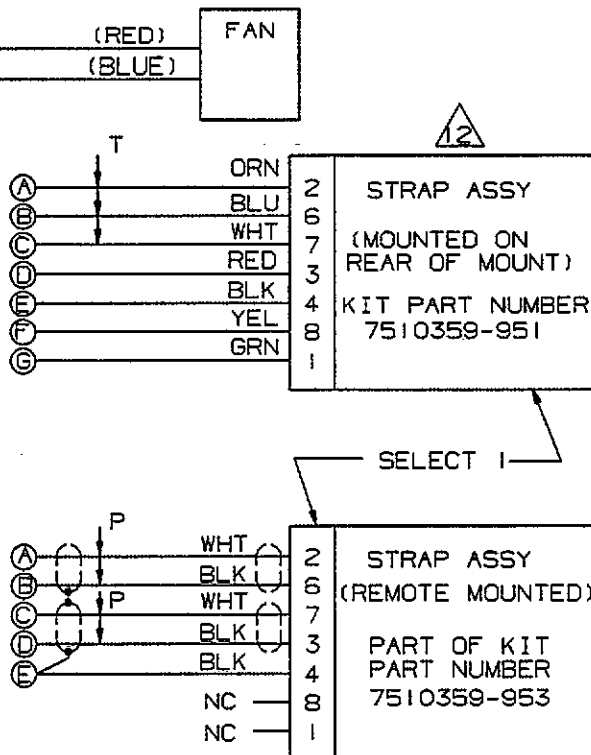
23
32
47
63
64
65
73
75
77
78
79

105

2
54

3

102
88
101
16
43
103
89



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INFORMATION ON THIS SHEET IS
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THE FIRST SHEET OF THIS DOCUMENT

SIZE/FORM CODE
D155939
DRAWING NO.
7510708
SHEET
23

REV
R

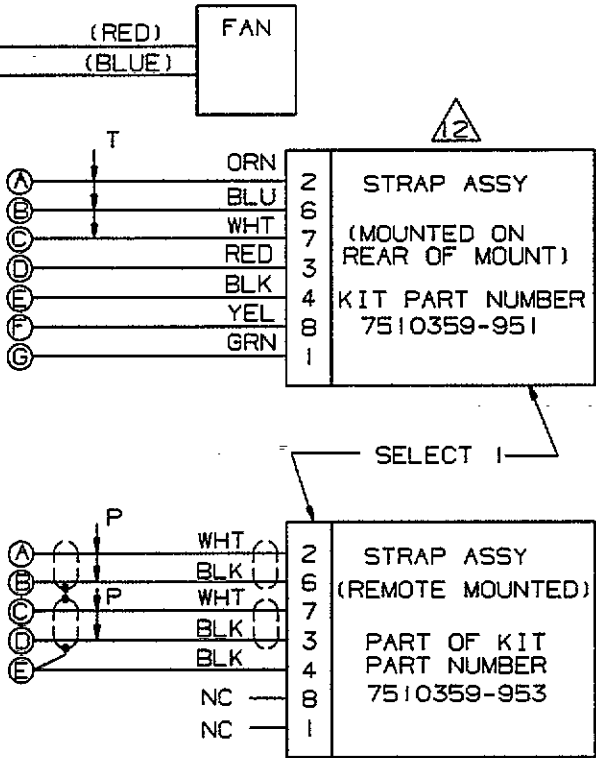
ZONE	REV	DESCRIPTION	DATE	APPROVED
P	1	SEE THIS SHEET.	21MAR97	T. BURR
R	2	WAS SHEET 24.	16MAY97	HAYWOOD
			16MAY97	11/18/97

P/O PILOT COMMUNICATION UNIT
RCZ-833H/854H WITH ACARS
(FOR COM FUNCTIONS SEE SH 3)

RESERVED FOR DLP C D TO XPDR 429A	98
RESERVED FOR ADC1 TO XPDR 429 575A	99
RESERVED FOR XPDR TO DLP C D 429A	97
RESERVED FOR ADC1 TO XPDR 429 575	86
RESERVED FOR DLP C D TO XPDR 429B	85
RESERVED FOR ADC2 TO XPDR 429 575A	100
RESERVED FOR DLP A B TO XPDR 429B	1
RESERVED FOR XPDR TO DLP A B 429B	26
RESERVED FOR XPDR TO DLP C D 429B	84
RESERVED FOR XPDR TO DLP A B 429A	27
RESERVED FOR DLP A B TO XPDR 429A	13
RESERVED FOR ADC2 TO XPDR 429 575	69
RESERVED FOR MUT SUPPR P	94
RESERVED FOR ALT SRC SEL2 NO	80
RESERVED FOR XPDR ACTIVE NO	91
RESERVED FOR XPDR OFF NO	71
RESERVED FOR XPDR +28V PWR	8
RESERVED FOR XPDR +28V PWR	9
RESERVED FOR XPDR +28V RTN	7
RESERVED FOR XPDR +28V RTN	20
RESERVED FOR SQUAT SWITCH NO	83
RESERVED FOR SQUAT SW RETURN	72

VHF COM ARINC 429 RXB A ECH	28
VHF COM ARINC 429 RXB B ECH	15
VHF COM ARINC 429 TXA A	81
VHF COM ARINC 429 TXA B	95
VHF COM ARINC 429 RXC A	68
VHF COM ARINC 429 RXC B	53
VHF COM ARINC 429 RXA A	82
VHF COM ARINC 429 RXA B	96
AUX AUDIO 1 HI	66
AUX AUDIO 1 LO	50
AUX AUDIO 2 HI (USE FOR NAV 3)	38
AUX AUDIO 2 LO (USE FOR NAV 3)	49
AUX AUDIO 3 HI	52
AUX AUDIO 3 LO	51
VHF COM DATA AUDIO IN HI	62
VHF COM DATA AUDIO IN LO	34
GND (AUDIO SHIELDS)	40
HF COM DISABLE NO	39
HF COM XMIT NO	37
AUDIO STATUS 1 NO	76
VHF COM VOICE DATA SELECT IN	48
VHF COM VOICE DATA KEY IN	36
COM 422A	23
COM 422B	32
XPDR 422A	47
XPDR 422B	63
XPDR RSV	64
VHF COM CSDB RXA HI	65
VHF COM CSDB RXA LO	73
VHF COM CSDB RXB HI	75
COM EMERG NO	77
SPARE DO NOT USE	78
VHF COM CSDB RXB LO	79
XPDR TO TCAS 429A	55
XPDR TO TCAS 429B	87
TCAS TO XPDR 429A	90
TCAS TO XPDR 429B	104
FOR SQUITTER ENA RTN	105

+28V FAN PWR	2
+28V FAN RTN	54
FLASH PROGRAM NO	3
COM STRAP LOAD N	102
COM STRAP CLK N	88
COM STRAP DATA P	101
COM STRAP +5V	16
COM STRAP GND	43
RESERVED FOR STRAP DATA OUT P	103
RESERVED FOR STRAP WRITE N	89



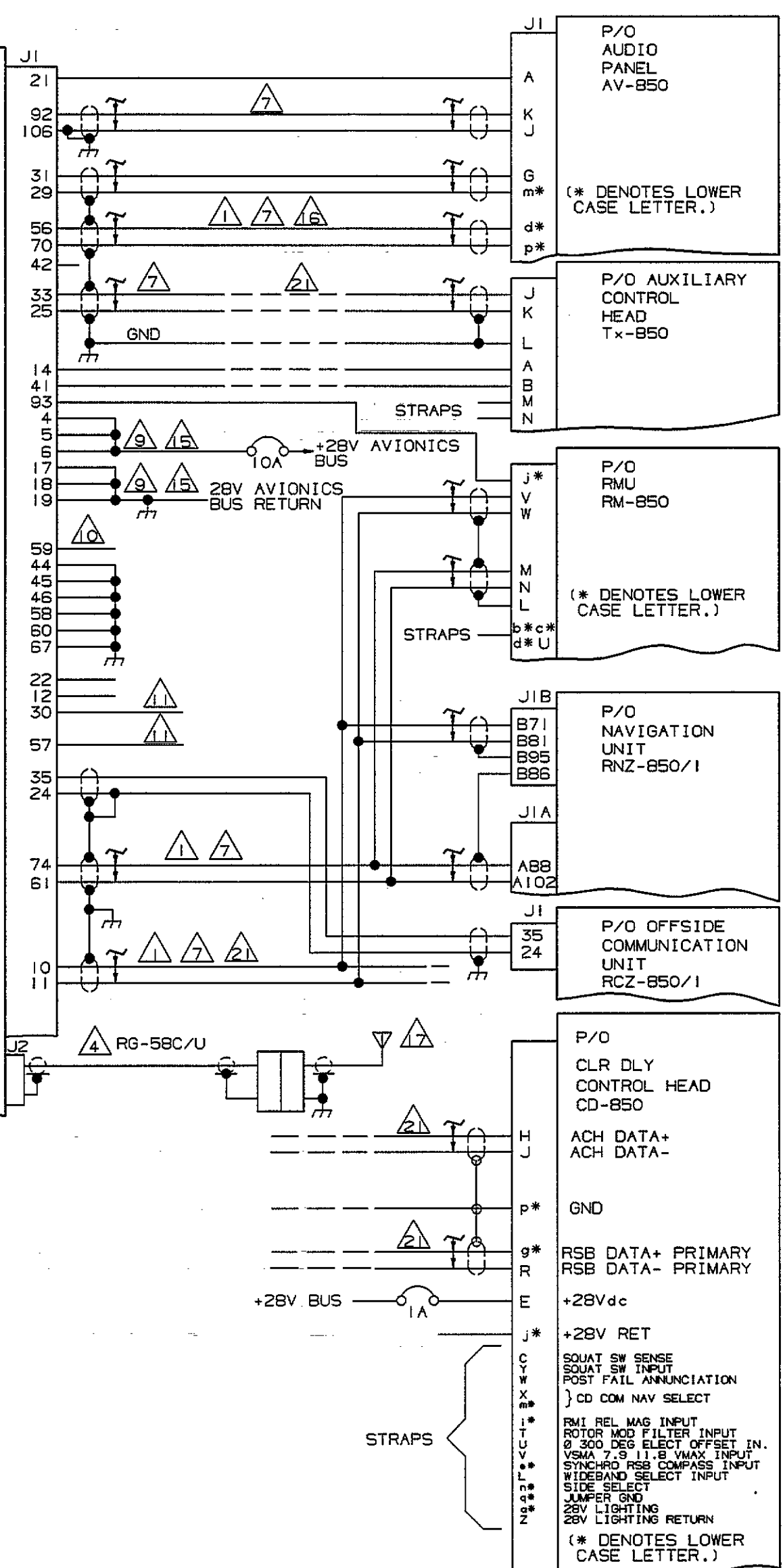
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DRAWING NO. 7510708
SHEET 24

ZONE	REV	DESCRIPTION	DATE	APPROVED
P	1	ADD THIS SHEET.	21MAR97	10/10/97
R	2	WAS SHEET 25.	10/10/97	10/10/97

P/O COMMUNICATION UNIT RCZ-853/833

(FOR TDR & OTHER FUNCTIONS, SEE FOLLOWING SHEET)

VHF PTT NO
VHF MIC HI
VHF MIC LO
PHONE AUDIO HI
PHONE AUDIO LO
AUDIO BUS P
AUDIO BUS N
GND AUDIO SHIELDS
VHF COM RS422 ACH IN HI
VHF COM RS422 ACH IN LO
COM +28V ACH PWR
COM +28V ACH RTN
COM OFF NO
COM +28V PWR
COM +28V RTN
COM RESERVED I
SELCAL ACARS HI
SELCAL ACARS LO
RECEIVER PHONE AUDIO HI
SIDETONE PHONE AUDIO HI
SIMULCOM N
SIMULCOM RTN
RSB SEC P
RSB SEC N
RSB PRI P
RSB PRI N



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SIZE CASE CODE D155939 DRAWING NO. 7510708 R

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ZONE	REV	DESCRIPTION	DATE	APPROVED
P	1	ADD THIS SHEET.	21MAR97	T. ELWOOD
R	2	WAS SHEET 26.	21MAR97	W. H. HARRIS

96447 (M)
96447 (M)
96447 (M)

P/O PILOT COMMUNICATION UNIT
RCZ-853/833

(FOR COM FUNCTIONS SEE SH 3)

	J1
DATA DISABLE	98
AUDIO CDH BUS MONITOR ENA	99
VOICE DISABLE	97
CHAN ANTI BLOCKING ENA	86
RX AUDIO COMPRESSOR DIS	85
TX TIME OUT PERIOD SEL	100
VOICE DATA STATUS	1
VHF COM ARINC 429 BURST TUNE ENABLE	26
VHF COM ARINC 429 PORT B A SELECT 1	84
SYSTEM POSITION LS BIT	27
SYSTEM POSITION MS BIT	13
ARINC 716 DATA MODE ENA	69
FREQ TONE TRANSFER DIS	94
ARINC 429 COMPATIBLE ENA	80
EXTENDED FREQUENCY ENA	91
RESERVED FOR XPDR OFF NO	71
RESERVED FOR XPDR +28V PWR	8
RESERVED FOR XPDR +28V PWR	9
RESERVED FOR XPDR +28V RTN	7
RESERVED FOR XPDR +28V RTN	20
SQUAT SWITCH NO	83
SQUAT SW RETURN	72

	J1
VHF COM ARINC 429 RXB A ECH	28
VHF COM ARINC 429 RXB B ECH	15
VHF COM ARINC 429 TXA A	81
VHF COM ARINC 429 TXA B	95
VHF COM ARINC 429 RXC A	68
VHF COM ARINC 429 RXC B	53
VHF COM ARINC 429 RXA A	82
VHF COM ARINC 429 RXA B	96
AUX AUDIO 1 HI	66
AUX AUDIO 1 LO	50
AUX AUDIO 2 HI (USE FOR NAV 3)	38
AUX AUD 2 LO (USE FOR NAV 3)	49
AUX AUD 3 HI	52
AUX AUDIO 3 LO	51
VHF COM DATA AUDIO IN HI	62
VHF COM DATA AUDIO IN LO	34
GND (AUDIO SHIELDS)	40
HF COM DISABLE NO	39
HF COM XMIT NO	37
AUDIO STATUS 1 NO	76
VHF COM VOICE DATA SELECT IN	48
VHF COM VOICE DATA KEY IN	36
COM 422A	23
COM 422B	32
XPDR 422A	47
XPDR 422B	63
VHF COM SPARE 1	64
VHF COM CSDB RXA HI	65
VHF COM CSDB RXA LO	73
VHF COM CSDB RXB HI	75
COM EMERG NO	77
SPARE DO NOT USE	78
VHF COM CSDB RXB LO	79
VHF COM ARINC 429 TXB-A	55
VHF COM ARINC 429 TXB-B	87
VHF COM SPARE 3	90
VHF COM SPARE 2	104
SQUITTER ENA RTN	105

+28V FAN PWR 2
+28V FAN RTN 54

FLASH PROGRAM NO 3

COM STRAP LOAD N 102
COM STRAP CLK N 88
COM STRAP DATA P 101
COM STRAP +5V 16
COM STRAP GND 43
STRAP LOAD N 103
STRAP CLK N 89

(RED) FAN
(BLUE)

ORN	2	STRAP ASSY (MOUNTED ON REAR OF MOUNT) KIT PART NUMBER 7510359-951
BLU	6	
WHT	7	
RED	3	
BLK	4	
YEL	8	
GRN	1	

WHT	2	STRAP ASSY (REMOTE MOUNTED) PART OF KIT PART NUMBER 7510359-953
BLK	6	
WHT	7	
BLK	3	
BLK	4	
NC	8	
NC	1	

SELECT 1

Honeywell

SEE FIRST SHEET FOR CONTINUED
INFORMATION ON DISCREPANCY OF
SHEET TO THE RESTRICTIONS ON
THE FIRST SHEET OF THIS DOCUMENT

SIZE CODE
D155939

DRAWING NO.
7510708

REV
R

DWG NO.	7510708	SH	26		1
REVISIONS					
ZONE	REV	DESCRIPTION	DATE	APPROVED	
	P	ADD THIS SHEET.	21 MAY 97	T. RYAN	
				WATWOOD	
	R	WAS SHEET 27.	21 MAY 97	WATWOOD	
				06/4/98 (M)	