

REV	ZONE	REVISION	DESCRIPTION	DATE	APPR
Ø	ALL SHTS	INITIAL RELEASE		09/19/05	

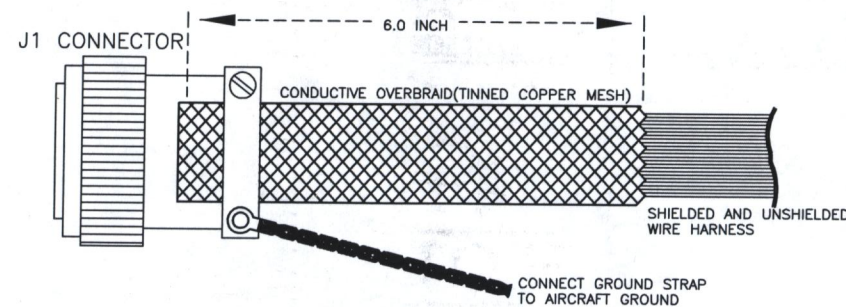
QTY	REF DES.	DESCRIPTION	PART NUMBER	VENDOR
1	ADDU	AIR DATA DISPLAY UNIT	9D80130-15 BLACK 9D-80130-32 GRAY	IS&S
1	P1	ADDU P1 CONNECTOR	MS3126F22-55S	QPL
1	S1	ADDU TEST SWITCH	MSP-103-C	NEWARK
1		ADDU SSEC MODULE	9B-03508-4 (MOD A)	IS&S
1		STANDBY ALTIMETER	B4515210004 OR EQUIVALENT	IDC
1		STBY ALTIMETER CONNECTOR	MS34761-10-6SW	QPL
1	ANN01	PRESEL ANNUN/SWITCH	4944-2667	QPL
3	CB1,2	CIRCUIT BREAKERS	7274-47-5	KLIXON
2	P/JO2/O4	DISCONNECTS	205161-1/205162-1	AMP
1	P/JO1	DISCONNECT	1-640517-0/1-640507-0	AMP
1		RAIL	M81714/5-1	TIMCO
7		TJ BLOCKS	M81714/2-DC1	T5IMCO
1	RSR102	RELAY BOARD	RD-42-082	DUNCAN
1	P2	CONNECTOR	205869-2	AMP
6	K1-K4	RELAYS	M39016/15-081M	DEUTSCH
1	ADC-87A	AIR DATA COMPUTER	822-1398-486	COLLINS
1	P2	THINLINE CONNECTOR 4 ROW 60 PIN	634-1908-001	COLLINS

**NOTES:**

- ALL WIRE TO BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE SECTIONS OF AC43.13-1B AND AC43.13-2A.
- INSTALLATION AND WIRE ROUTING TO BE ACCOMPLISHED FOLLOWING THE RECOMMENDATIONS AND GUIDELINES FOUND IN THE STANDARD PRACTICES AND PROCEDURES, CHAPTER 20 OF THE AIRCRAFT WIRING/MAINTENANCE MANUAL.
- ALL WIRE TO BE IN ACCORDANCE WITH SPECIFICATION: MIL-W-27500 AND MIL-W-22759D.
- ALL SHIELD GROUND WIRES TO BE AS SHORT AS PRACTICAL.
- ALL WIRES ARE 22 AWG UNLESS OTHERWISE INDICATED.
- ALL DIODES ARE 1N4005 UNLESS OTHERWISE INDICATED.
- ASTERISK (\*) PRECEDING A LETTER DESIGNATES LOWER CASE.
- WIRES ARE NOT TO BE ROUTED WITH ANY HEAVY POWER CARRYING WIRES.
- APPROVAL ON SHEET ONE CONSTITUTES APPROVAL OF ALL SHEETS.
- ◻ INDICATES WIRING CONTINUED BETWEEN LIKE SYMBOLS.
- ——— INDICATES NEW WIRING.
- - - - - - INDICATES EXISTING WIRING.
- - · - · - · - INDICATES WIRING SHOWN ELSEWHERE.

- 1 COLocate the ADDU TEST SWITCH WITH THE ADDU
- 2 REMOVE WIRES FROM OLD ALTIMETER AND RELOCATE AS SHOWN
- 3 REMOVE WIRES FROM PRE-80 PRESELECTOR AND EXTEND TO RELAY
- 4 THE PRE-80A P/N 622-2923-X0X OR -X1X, SHALL BE UPGRADED TO SERVICE BULLETIN No.5 TO ALLOW FOR 200 FOOT PRE SELECTOR ERROR TOLERANCE. THE NEW P/N WILL BE 622-2923-X2X OR -X3X.
- 5 ADC-87A AIR DATA COMPUTER IS PART # 822-1398-486
- 6 STRAP CODE FOR 1124A INSTALLATION IS [ABEF].
- 7 POWER PINS MUST BE RELOCATED AS SHOWN ON PRINT.
- 8 MODULE DATA, SIMPLEX INSTALL, [COM INACTIVE, ALWAYS MASTER 'A'], AP-105 I/O SET #2.
- 9 2" STANDBY ALT 16650-1151 USED AS EQUIVALENT FOR B4515210004.

THIS DRAWING DOCUMENTS  
DEVIATIONS FROM  
ORIGINAL STC  
STC (ST01650CH-D)



ALL SHIELD TERMINATIONS SHALL BE AT LEAST 3.0" LONG AND SHALL BE TWISTED TOGETHER AND CLAMPED AGAINST, AND COVERED BY CONDUCTIVE OVERBRAID TO MAKE GOOD ELECTRICAL CONTACT.

 	ENGINEER	SAHRL	A/C MAKE/ MODEL	IAI 1124A WESTWIND
	DRAFTER	SAHRL	S/N	368
	SHOP		REG#	N83SG
	CHECK		W.O.	PJZZA
APPR				
TITLE	IS&S ADDU AND ADC-87A ELECTRICAL INSTALLATION			SHT 1 of 6
DRAWING NO.	050919010			REV Ø

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AIR DATA  
DISPLAY UNIT

ALTIMETER (R)



ALT BKUP (R)



5 VDC  
LIGHTS

CONFIG  
STRAPS

TRANSPONDERS

TEST SWITCH

GREEN

NO 1  
PRESEL

AMBER

NO 2  
PRESEL

PRESELECTOR  
PRE-80()  
WARNINGS

DISABLE  
RELAY

STANDBY  
ALTIMETER

STBY ALT



5 VDC  
LIGHTS

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ENGINEER	SAHRL	A/C MAKE/ MODEL	IAI 1124A WESTWIND
DRAFTER	SAHRL	S/N	368
SHOP	SEE SHT1	REG#	N83SG
CHECK	SEE SHT1	W.O.	PJZZA
APPR	SEE SHT1	SCALE	NONE
TITLE	IS&S ADDU AND ADC-87A ELECTRICAL INSTALLATION		SHT 2 of 6
DRAWING NO.	050919010		REV Ø

D

C

B

A

COCKPIT PANEL  
**AIR DATA  
 DISPLAY UNIT  
 IS&S ADDU**

28VDC POWER  
 POWER GRD  
 CHASSIS GRD  
 CHASSIS GRD

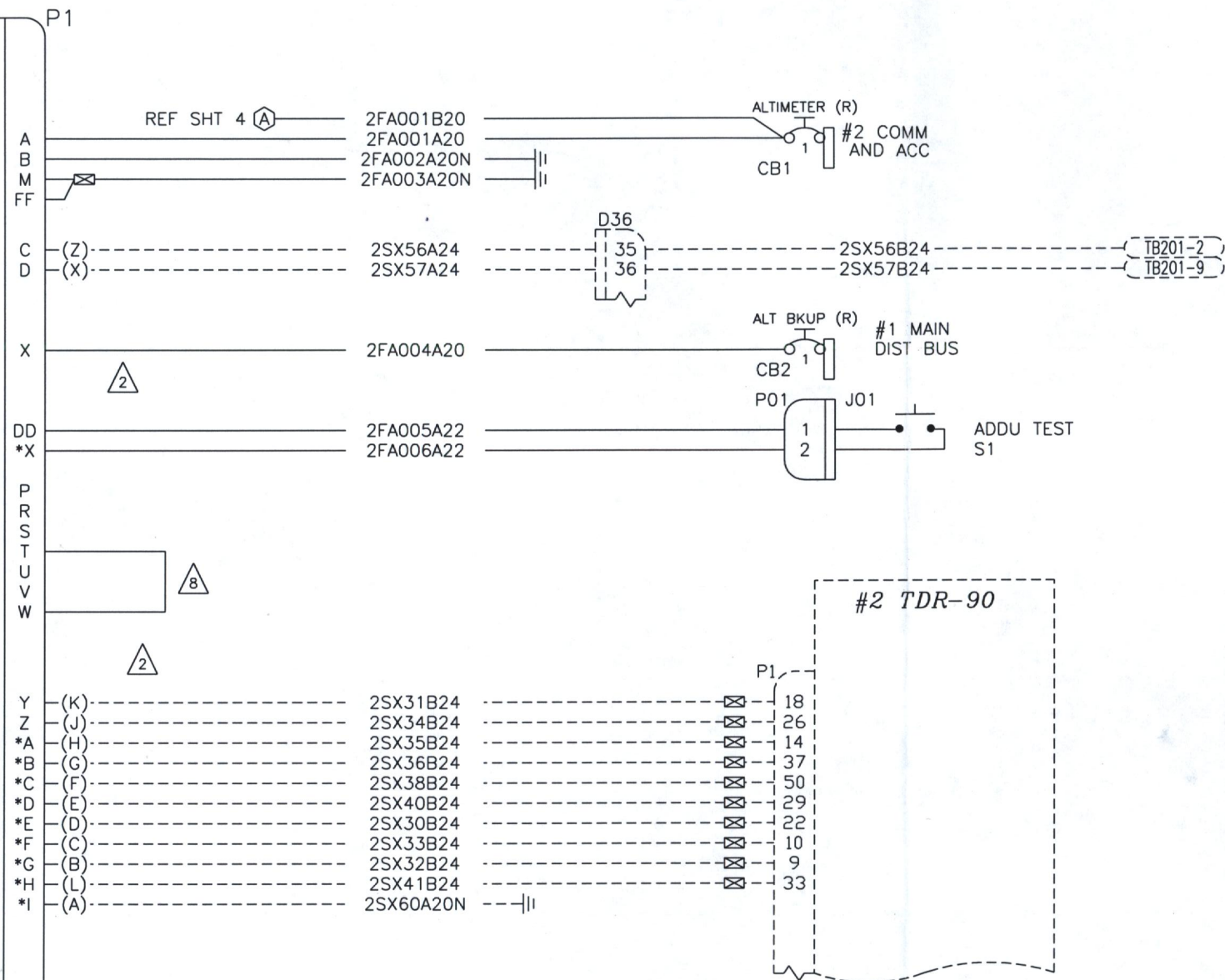
5V LIGHTS  
 H  
 L

28VDC BACKUP POWER

TEST IN  
 TEST GRD

CONFIG A  
 CONFIG B  
 CONFIG C  
 CONFIG D  
 CONFIG E  
 CONFIG PARITY  
 CONFIG COMMON

ALT ENCODING A1  
 ALT ENCODING A2  
 ALT ENCODING A4  
 ALT ENCODING B1  
 ALT ENCODING B2  
 ALT ENCODING B4  
 ALT ENCODING C1  
 ALT ENCODING C2  
 ALT ENCODING C4  
 ALT ENCODING C4  
 ALT ENCODING D4  
 ALT ENCODING COMMON



△ 2 REMOVE WIRES FROM OLD ALTIMETER AND RELOCATE AS SHOWN

△ 8 MODULE DATA, SIMPLEX INSTALL, [COM INACTIVE, ALWAYS MASTER 'A'], AP-105 I/O SET #2.

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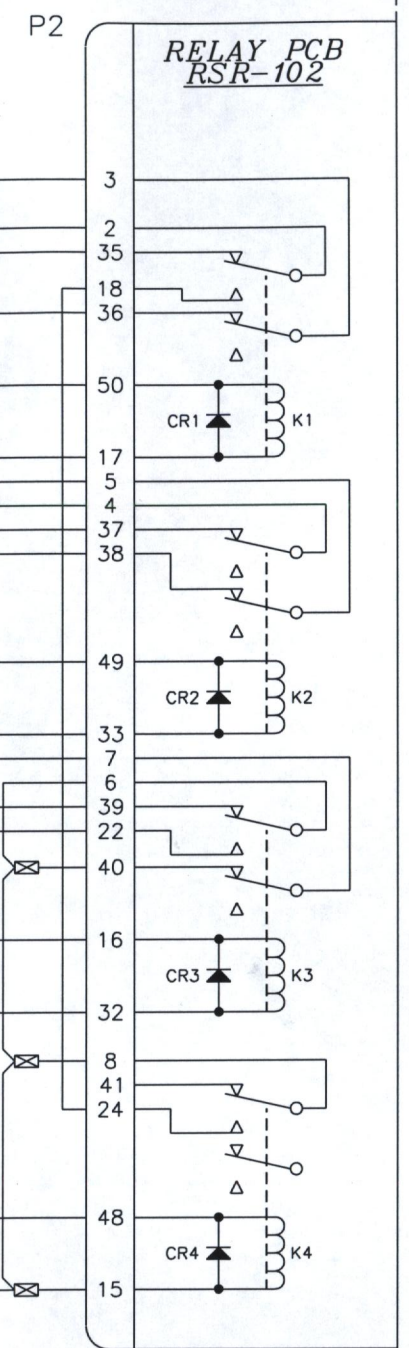
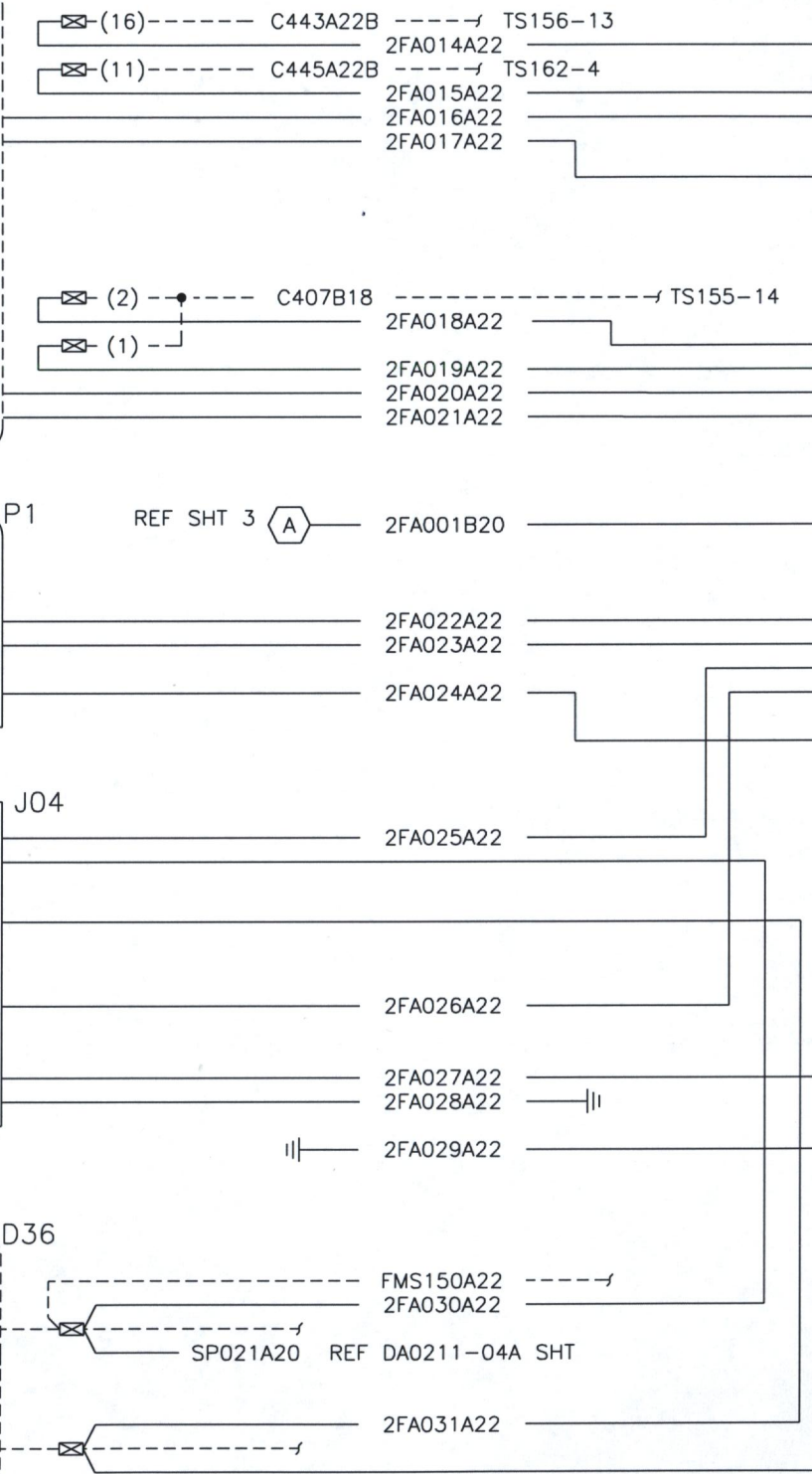
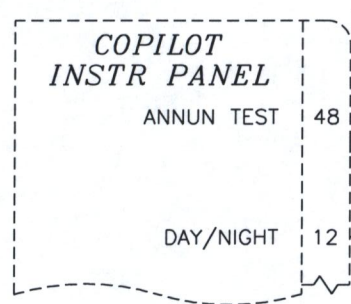
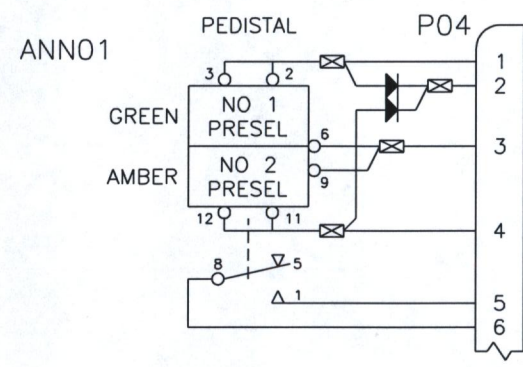
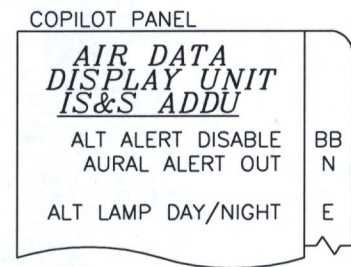
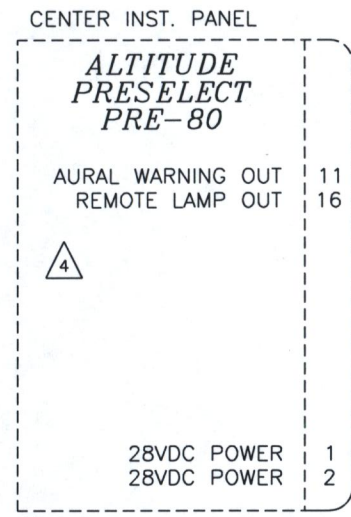
ENGINEER	SAHRL	A/C MAKE/ MODEL	IAI 1124A WESTWIND
DRAFTER	SAHRL	S/N	368
SHOP	SEE SHT1	REG#	N83SG
CHECK	SEE SHT1	W.O.	PJZZA
APPR	SEE SHT1	SCALE	NONE
TITLE	IS&S ADDU AND ADC-87A ELECTRICAL INSTALLATION		SHT 3 of 6
DRAWING NO.	050919010		REV ∅

D

C

B

A



△ THE PRE-80A P/N 622-2923-X0X OR -X1X, SHALL BE UPGRADED TO SERVICE BULLETIN No.5 TO ALLOW FOR 200 FOOT PRE SELECTOR ERROR TOLERANCE. THE NEW P/N WILL BE 622-2923-X2X OR -X3X.

  <small>ALL INFORMATION CONTAINED IN THIS DOCUMENT IS PROPERTY OF DUNCAN AVIATION AND MAY NOT BE REPRODUCED IN WHOLE OR PART, WITHOUT PERMISSION OF DUNCAN AVIATION</small>	ENGINEER	SAHRL	A/C MAKE/MODEL	IAI 1124A WESTWIND
	DRAFTER	SAHRL	S/N	368
	SHOP	SEE SHT1	REG#	N83SG
	CHECK	SEE SHT1	W.O.	PJZZA
	APPR	SEE SHT1		
	TITLE	IS&S ADDU AND ADC-87A ELECTRICAL INSTALLATION		SHT 4 OF 6
	DRAWING NO.	050919010		REV ∅

COPILOT PANEL

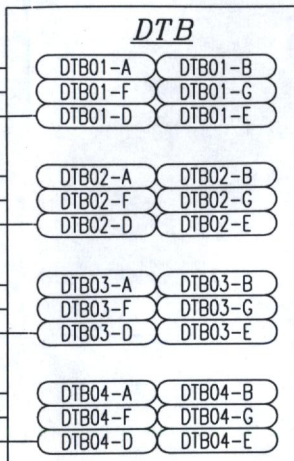
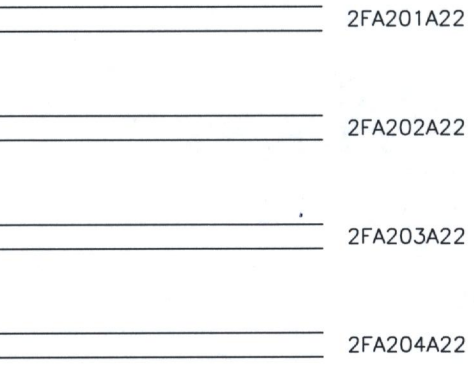
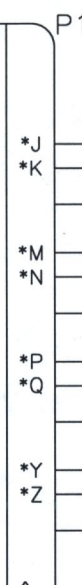
**AIR DATA  
DISPLAY UNIT  
IS&S ADDU**

RS-422 DATA RX A  
RS-422 DATA RX B

RS-422 DATA TX A  
RS-422 DATA TX B

429 DATA OUT 1A  
429 DATA OUT 1B

429 DATA OUT 2A  
429 DATA OUT 2B



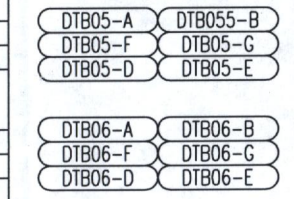
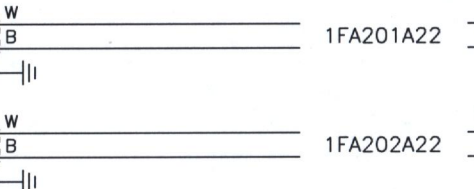
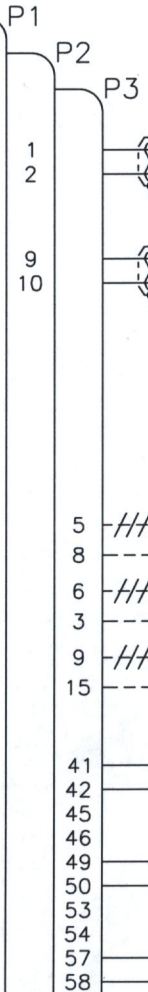
DIGITAL INTERFACE BLOCKS FOR FUTURE USE.

PROVISIONING

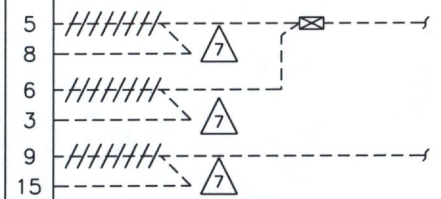
**AIR DATA  
COMPUTER  
ADC-87A**

429 OUT 1A  
429 OUT 1B

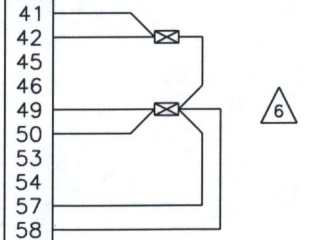
429 OUT 2A  
429 OUT 2B



POWER  
POWER  
POWER  
POWER  
POWER  
POWER



CONFIG CONTROL A  
CONFIG CONTROL B  
CONFIG CONTROL C  
CONFIG CONTROL D  
CONFIG CONTROL E  
CONFIG CONTROL F  
CONFIG CONTROL G  
CONFIG CONTROL H  
CONFIG CONTROL I  
CONFIG CONTROL RTN



△ 6 STRAP CODE FOR 1124A INSTALLATION IS [ABEFI].  
△ 7 POWER PINS MUST BE RELOCATED AS SHOWN ON PRINT.

	1	2	3	4	5	6	7	
A	○	○	○	○	○	○	○	F
B	○	○	○	○	○	○	○	G
C	○	○	○	○	○	○	○	H
D	○	○	○	○	○	○	○	J
E	○	○	○	○	○	○	○	K

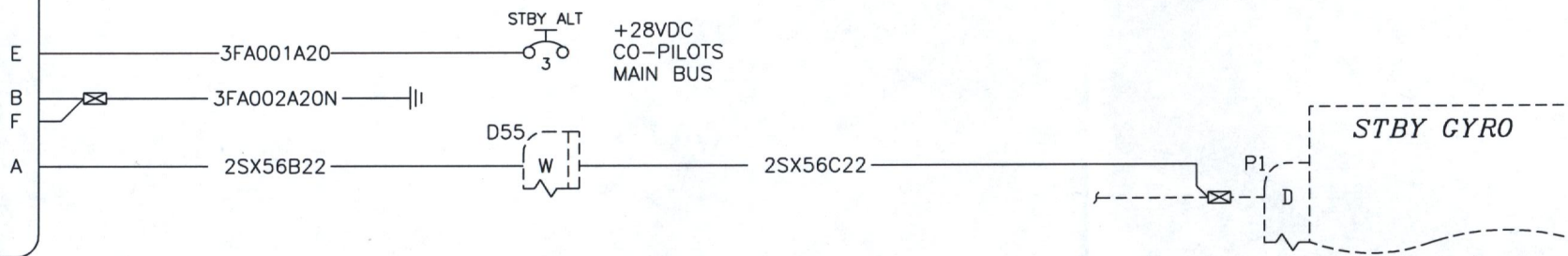
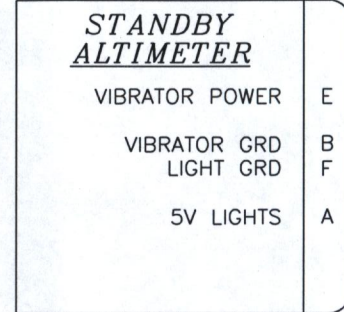
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ENGINEER	SAHRL	A/C MAKE/MODEL	IAI 1124A
DRAFTER	SAHRL		WESTWIND
SHOP	SEE SHT1	S/N	368
CHECK	SEE SHT1	REG#	N83SG
APPR	SEE SHT1	W.O.	PJZZA
		SCALE	NONE
TITLE	IS&S ADDU AND ADC-87A ELECTRICAL INSTALLATION		SHT 5 of 6
DRAWING NO.	050919010		REV ∅

CENTER PANEL



9 2" STANDBY ALT 16650-1151 USED AS EQUIVALENT FOR B4515210004.

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ENGINEER	SAHRL	A/C MAKE/ MODEL	IAI 1124A
DRAFTER	SAHRL		WESTWIND
SHOP	SEE SHT1	S/N	368
CHECK	SEE SHT1	REG#	N83SG
APPR	SEE SHT1	W.O.	PJZZA
		SCALE	NONE
TITLE	IS&S ADDU AND ADC-87A ELECTRICAL INSTALLATION		SHT 6 OF 6
DRAWING NO.	050919010		REV ∅