

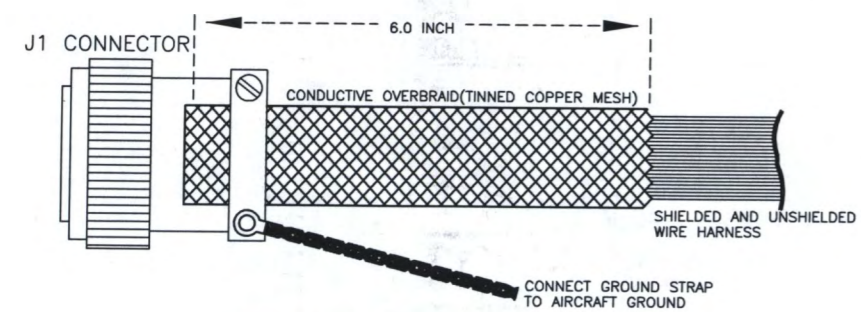
REV	ZONE	REVISION	DESCRIPTION	DATE	APPR
Ø	ALL SHTS	INITIAL RELEASE		09/19/05	

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/J01	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 WORK 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 [ABEF1].
 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.

DUNCAN AVIATION

HOU

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

ENGINEER	SAHRL	A/C MAKE/ MODEL	IAI 1124A WESTWIND
DRAFTER	SAHRL	S/N	368
SHOP		REG#	N83SG
CHECK		W.O.	PJZZA
APPR		SCALE	NONE
TITLE	IS&S ADDU AND ADC-87A ELECTRICAL INSTALLATION		SHT 1 OF 6
DRAWING NO.	050919010		REV Ø

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

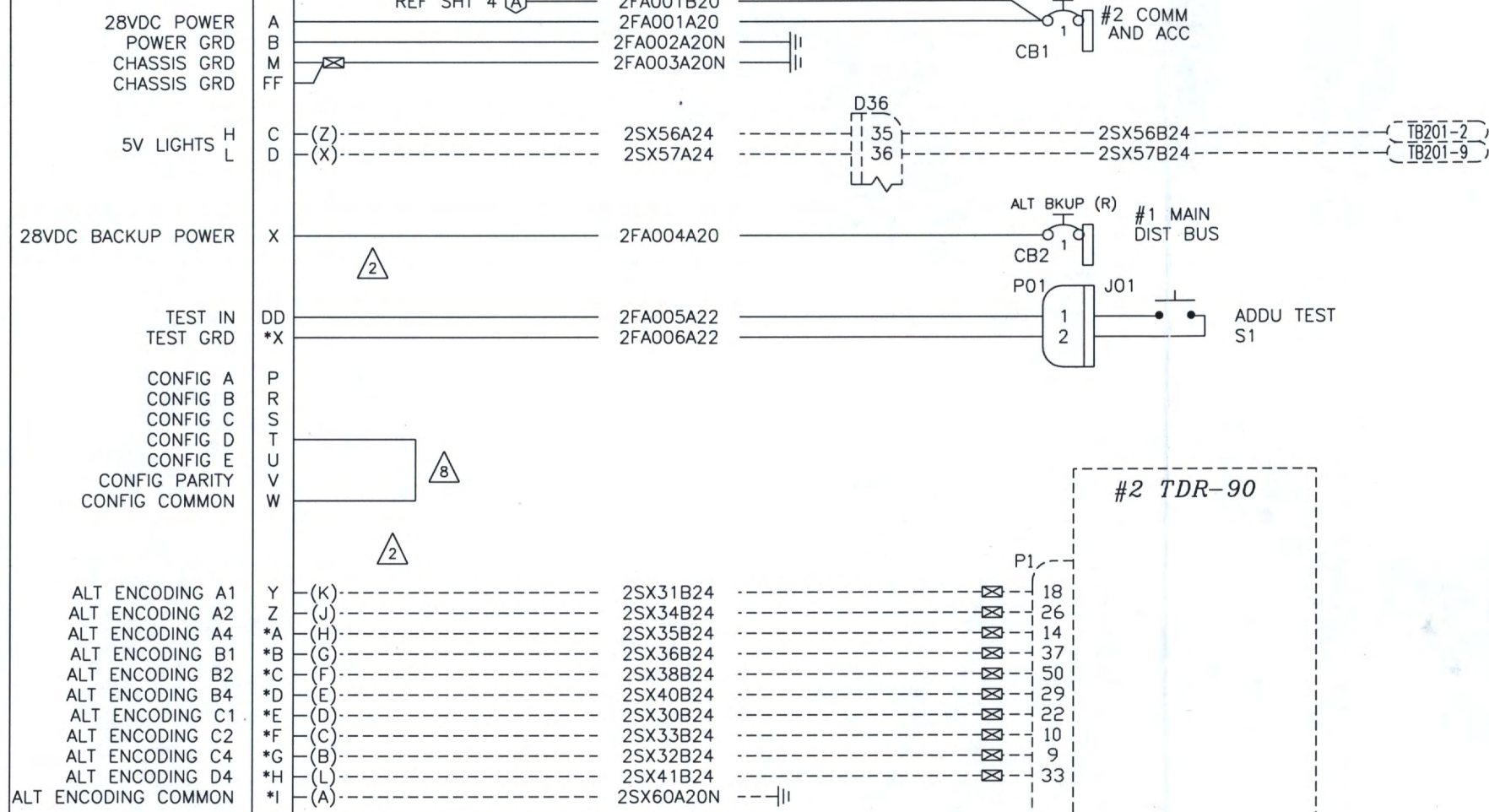
DUNCAN AVIATION

HOU

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

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 2 of 6
DRAWING NO.	050919010		REV Ø

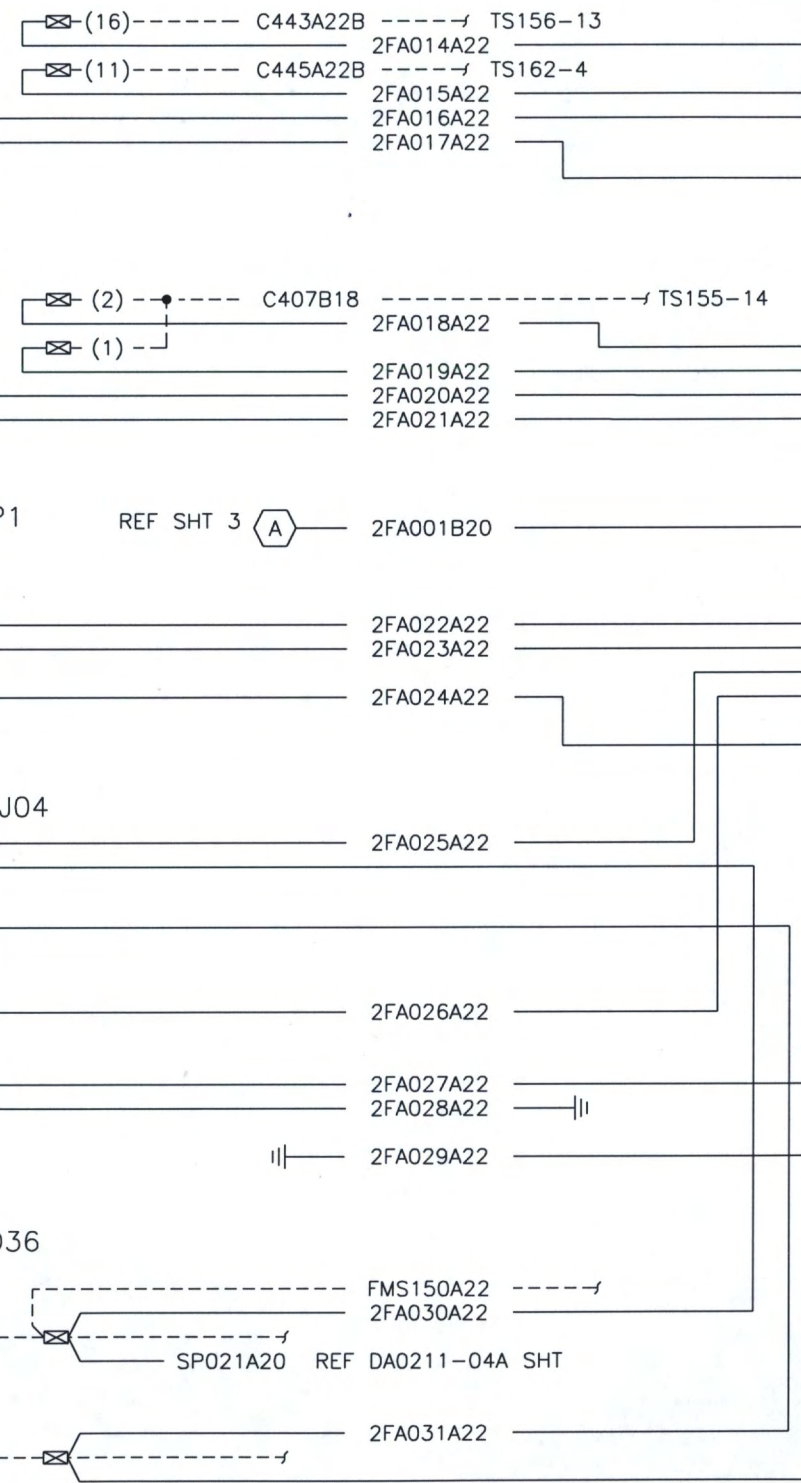
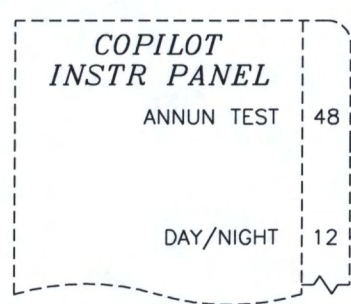
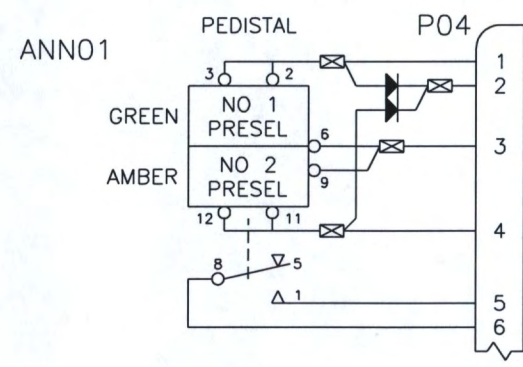
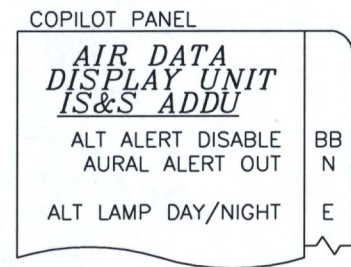
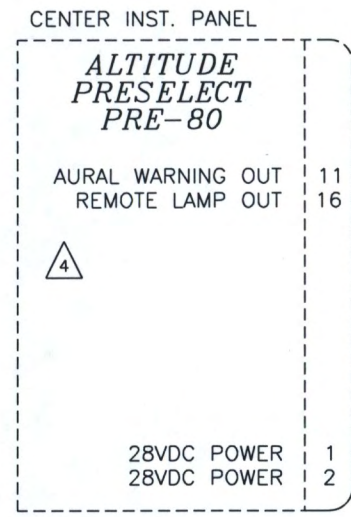
COCKPIT PANEL
**AIR DATA
 DISPLAY UNIT
 IS&S ADDU**



- △ REMOVE WIRES FROM OLD ALTIMETER AND RELOCATE AS SHOWN
- △ MODULE DATA, SIMPLEX INSTALL, [COM INACTIVE, ALWAYS MASTER 'A'], AP-105 I/O SET #2.

	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
DRAWING NO.	050919010		REV	∅

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



△ 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	SCALE NONE
	APPR	SEE SHT1	SHT	4	OF 6
	TITLE	IS&S ADDU AND ADC-87A ELECTRICAL INSTALLATION			REV
DRAWING NO.	050919010				

COPILOT PANEL

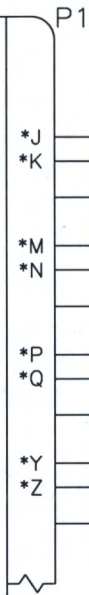
**AIR DATA
DISPLAY UNIT
IS&S ADDU**

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



P1

P1

PROVISIONING

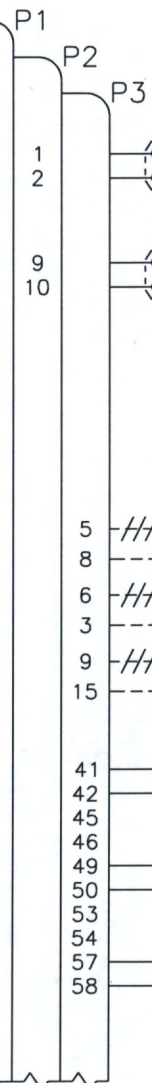
**AIR DATA
COMPUTER
ADC-87A**

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



P1

P2

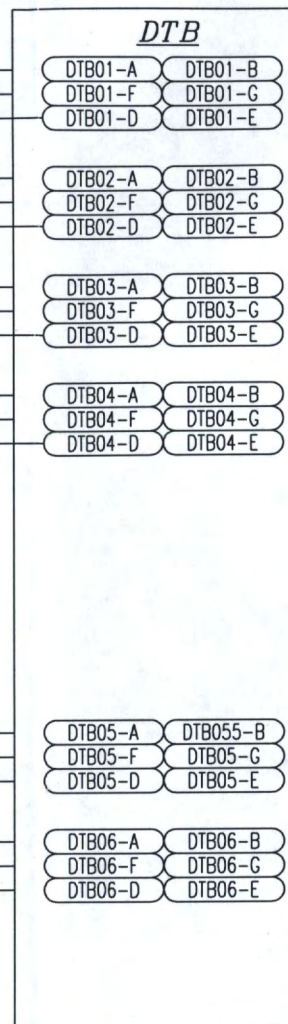
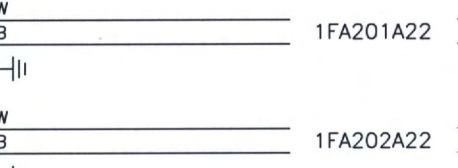
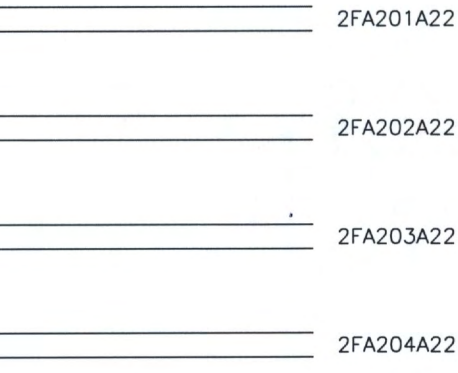
P3

1
2

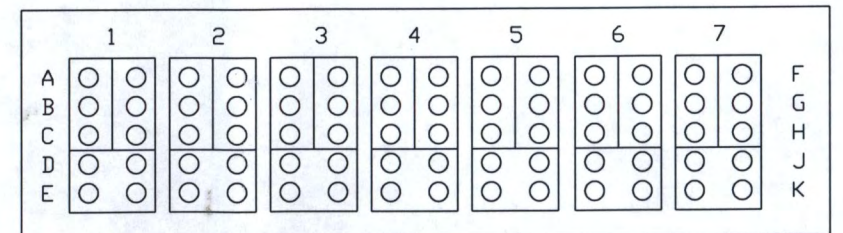
9
10

5
8
6
3
9
15

41
42
45
46
49
50
53
54
57
58

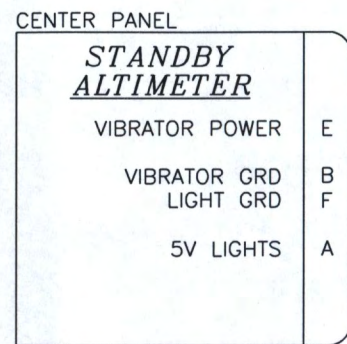


DIGITAL INTERFACE BLOCKS FOR
FUTURE USE.



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

 <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
	DRAFTER	SAHRL		WESTWIND
	SHOP	SEE SHT1	S/N	368
	CHECK	SEE SHT1	REG#	N83SG
	APPR	SEE SHT1	W.O.	PJZZA
TITLE	IS&S ADDU AND ADC-87A ELECTRICAL INSTALLATION			SHT 5 of 6
DRAWING NO.	050919010			REV ∅



9

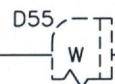


+28VDC
CO-PILOTS
MAIN BUS

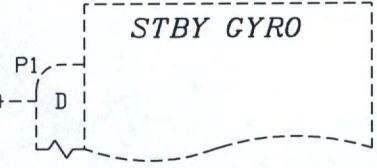
3FA001A20

3FA002A20N

2SX56B22



2SX56C22



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

DUNCAN AVIATION

HOU

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

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 ∅