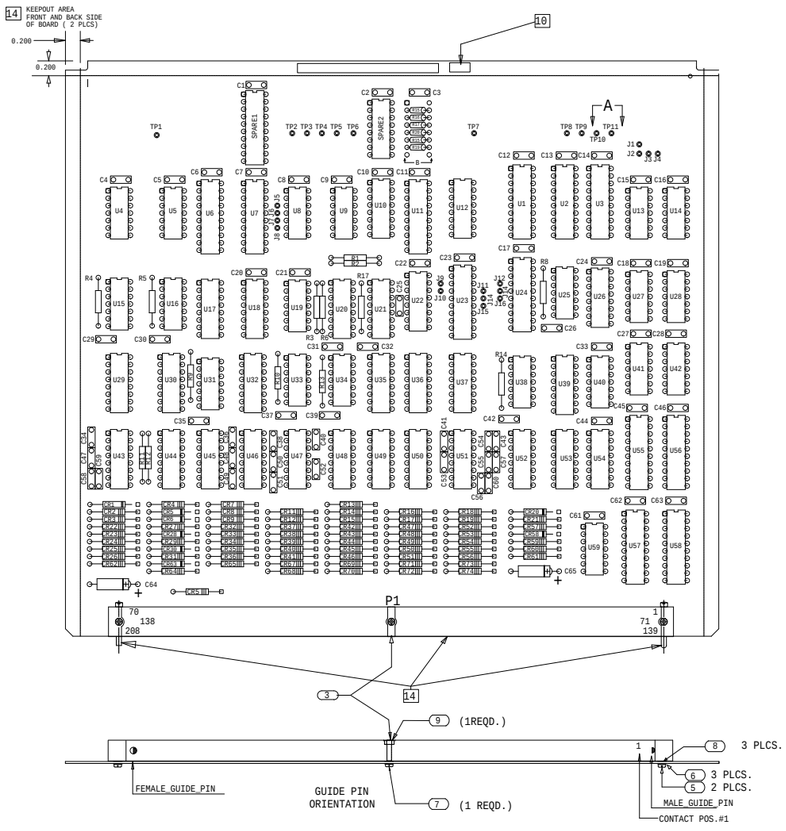
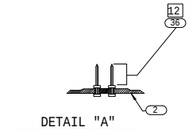
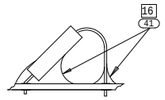
NOTES:

1. INSTALL ITEM 4 ON ITEM 3 AS SHOWN. USING PREDRILLED HOLES SECURE WITH ITEM 5, 6, 7 & 8. INSTALL PER LAC 3600-000000
2. INSTALL COMPONENT PER NASA NHB 5300.4(3A-1) FOR COMPONENT LAYOUT SEE SHEET 1. FOR COMPONENTS SEE PARTS LIST.
3. SOLDER PER NASA SPEC NHB-5300.4(3A-1).
4. REFERENCE DESIGNATIONS AND PIN NUMBERS ARE FOR REFERENCE ONLY AND MAY NOT APPEAR ON PART. FOR COMPLETE DESIGNATION PREFIX WITH UNIT NUMBER OR SUBASSEMBLY DESIGNATION OR BOTH.
5. REFERENCE SCHEMATIC DIAGRAM ON SHEET 2 & 3 OF THIS DRAWING.
6. FOR CLARITY: COMPONENTS NOT LOCATED BY ITEM NUMBERS ARE INDICATED BY REFERENCE DESIGNATIONS. BOARD CONDUCTORS NOT SHOWN.
7. (DELETE)
8. AFTER SOLDERING CLEAN PER LAC SPEC 3851-010100.
9. PROTECT AND HANDLE PER LAC LAC 1001.
10. MARK A MANUFACTURING ASSIGNED SERIAL NUMBER PER LAC 3575-010133 AT APPROXIMATE LOCATION SHOWN. CURE PER NOTE 11.
11. CURE MARKING FOR 90 MINUTES AT 175 - 200 DEG.F.
12. DO NOT CONFORMAL COAT TEST POINTS PINS ON COMPONENT SIDE UNTIL FINAL BOARD AND SYSTEM LEVEL TESTING HAS BEEN COMPLETED. HAND COAT TEST PINS AFTER COMPLETION OF TEST.
13. CONFORMAL COAT PER LAC SPEC 3251 AFTER FINAL ASSEMBLY ANMD TEST USING ITEM 14 ON FRONT COMPONENT SIDE OF PWB AND BACK SOLDER SIDE OF PWB EXCEPT IN AREAS NOTED. DO NOT ALLOW CONFORMAL COATING TO COME IN CONTACT WITH CONNECTOR PINS AND KEEPOUT AREAS (NOTE 14).
14. DO NOT CONFORMAL COAT.
15. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES. PROTECT PER LAC SPEC 3250.
16. SPOT FILLET BOND ALL COMPONENTS NOTED ON PARTS LIST TO ITEM 3 PER LAC SPEC 3252-060101 AFTER COMFORMAL COAT.
17. COMPLETED ASSEMBLY TO BE TESTED BY RESPONSIBLE ORGANIZATION (91-30) PRIOR TO APPLICATION OF NOTE 13,16.





DETAIL "A"
SCALE: NONE
PLACES 11



DETAIL "B"
SCALE: NONE
PLACES 6

REVISIONS

REV	DESCRIPTION	DATE	APVD
A	SH 1-UPDATE REVISION SH 2-CUT CR1,CR5,CR20 & CR58 AT BANDED END AND TIED TO 5VUS. SH 4-ADD CHANGES MADE TO SH 2.	15 NOV 93	R. CARAVALHO
B	SH 1-UPDATE PARTS LIST & PARTS PLACEMENT. SH 2-ADDED SPARE1 & SPARE2. ADDED R15-R20. TIED CR6,CR8,CR28,CR30,CR63 TO 5VUS. SH 3-ADDED 5VUS TABLE. SH 4-UPDATE TO REFLECT CHANGES MADE TO SH 2	29 NOV 93	R. CARAVALHO

	QTY REQD	SIZE/ PKGING	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REFERENCE/IDENT.	NOME/NAME	ITEM NO.
							42
16	6	RNC55	RNC55H1022FS	RESISTOR 10.2K OHM 1/10W MF	R15-R20		41
	A/R		MD45-24T	WIRE BUSS	SET AT TEST		40
	6	CKR05	M39014/01-1593	.1UF,50V,10% CERAMIC	C66-C71		39
	A/R		LAC-40-4647	CONFORMAL COAT			38
	A/R		LAC-40-4646	FILLETTING COMPOUND			37
	11		1124-0-05-15-00-01-0	TEST PINS	TP1-TP11		36
	4	16-DIP	M8340102M5103GA	RESISTOR NETWORK IC 510K OHM	U17,U30,U36,U50	QPL	35
	7	16-DIP	M8340102M1003GB	RESISTOR NETWORK IC 100K OHM	U20,U35,U43,U47,U48,U51,U52	QPL	34
	2	16-DIP	M8340102M4700GA	RESISTOR NETWORK IC 470 OHM	U44,U45	QPL	33
	1	16-DIP	M8340102M2200GA	RESISTOR NETWORK IC 220 OHM	U53	QPL	32
	3	16-DIP	M8340102K1200GA	RESISTOR NETWORK IC 120 OHM	U29,U37,U46	QPL	31
	2	16-DIP	M8340102K2701GB	RESISTOR NETWORK IC 2.7K OHM	U18,U22	QPL	30
	4	16-DIP	M8340102K1002GB	RESISTOR NETWORK IC 10K OHM	U12,U32,U39,U49	QPL	29
	2	RNC55	RNC55H4992FS	RESISTOR 49.9K OHM	R1,R6	DALE	28
	4	RNC55	RNC55H4991FS	RESISTOR 4.99K OHM	R2,R3,R11,R12	QPL	27
16	8	RCR07	RCR07G471JS	RESISTOR 470 OHM 1/4W	R4,R5,R7-R10,R13,R14	ALLEN/BRAD	26
16	43	CKR05	M39014/01-1575	BYPASS CAPACITOR .01UF	C1-33,C35,C37,C39,C42,C44-46,C61-63	QPL	25
	20	CKR05	M39014/01-1339	CAPACITOR 100PF	C34,C36,C38,C40,C41,C43,C47-C60	QPL	24
	2	CASE A	M39003/01-3088	ELECT. CAPACITOR 4.7UF	C64,C65	MEPCO	23
	52		JANTXV1N5711	SIGNAL DIODE	CR2,CR3,CR8,CR9,CR11,CR12,CR14-CR18, CR19,CR22-CR26,CR32-CR56,CR62,CR65, CR67-CR74	QPL	22
	20		JANTXV1N4150	SIGNAL DIODE	CR1,CR4-CR7,CR13,CR20,CR21, CR27-CR31,CR57-CR61,CR63,CR64	QPL	21
	8	14-DIP	M38510/11201BCA	QUAD COMPARATOR IC	U15,U16,U21,U25,U31,U33,U34,U38	NATIONAL	20
	4	20-DIP	54RHSC573CSO	OCTAL TRANSPARENT LATCH IC	U55-U58	MARCONI	19
	6	20-DIP	54RHSC244CSAAC	DUAL 4 BIT BUFFER IC	U1,U2,U6,U7,U23,U24,SPARE1	MARCONI	18
	2	20-DIP	A54RHSC240CSAAC	DUAL 4 BIT INVERTING BUFFER	U3,U11	MARCONI	17
	4	14-DIP	HCS164DMSR	S-P SHIFT REGISTER IC	U27,U28,U41,U42	HARRIS	16
	2	14-DIP	HCS138DMSR	3 TO 8 LINE DECODER IC	U13,U14	HARRIS	15
	3	16-DIP	54RHSC109CSO	DUAL JK FLIP-FLOP IC	U10,U26,U54	MARCONI	14
	1	14-DIP	HCS10DMSR	TRIPLE 3-INPUT NAND GATE IC	U8	HARRIS	13
	1	14-DIP	HCS08DMSR	QUAD 2-INPUT AND GATE IC	U59	HARRIS	12
	4	14-DIP	HCS04DMSR	HEX INVERTER IC	U4,U5,U9,U19	HARRIS	11
	1	14-DIP	HCS00DMSR	QUAD 2-INPUT NAND GATE IC	U40,SPARE2	HARRIS	10
	1		NAS671-4	NUT, PLAIN HEXAGON			9
	3		NAS620C4	WASHER, FLAT-REDUCED OD			8
	1		NAS1101E04-8	SCREW, MACHINED-.500LGTH			7
	3		NAS620C4L	WASHER, FLAT-REDUCED OD			6
	2		NAS1101E02-6	SCREW, MACHINED-.375LGTH			5
							4
	1		HGM208MEA2Y99C000	CONNECTOR, 208 PIN RT ANGLE	P1A27 (P1)	IEH	3
	1		MDI081106-101	PRINTED CIRCUIT BOARD			2
	-		-101	COMPONENT ASSEMBLY			1

LAST CHANGE: 29 NOV 91 (R.C.)

REVISION STATUS OF SHEETS						
REVISION	B	B	A	B	-
SHEET	1	2	3	4	5

DATE:	02/29/92
DRWN.BY:	B.IMAI
APVD:	R. CARAVALHO
APVD:	
ENGR:	C.EDWARDS
CHKR:	R. CARAVALHO
APVD:	L.SPRINGER P.E.
APVD:	L.REYNOLDS Q.E.

NEXT ASSY / USED ON: MDI
COMP.FILE NO: 81105-1.SCH

LOCKHEED PALO ALTO LABORATORY
PALO ALTO, CALIFORNIA

PART NAME: PRINTED WIRING ASSEMBLY
DEP S/C INTERFACE EXPANSION
MDI (A27)

D | CODE IDENT. 65113 | MDI081105 | REV: B

SHEET NO: 01 OF 4