

NOTES: UNLESS OTHERWISE SPECIFIED

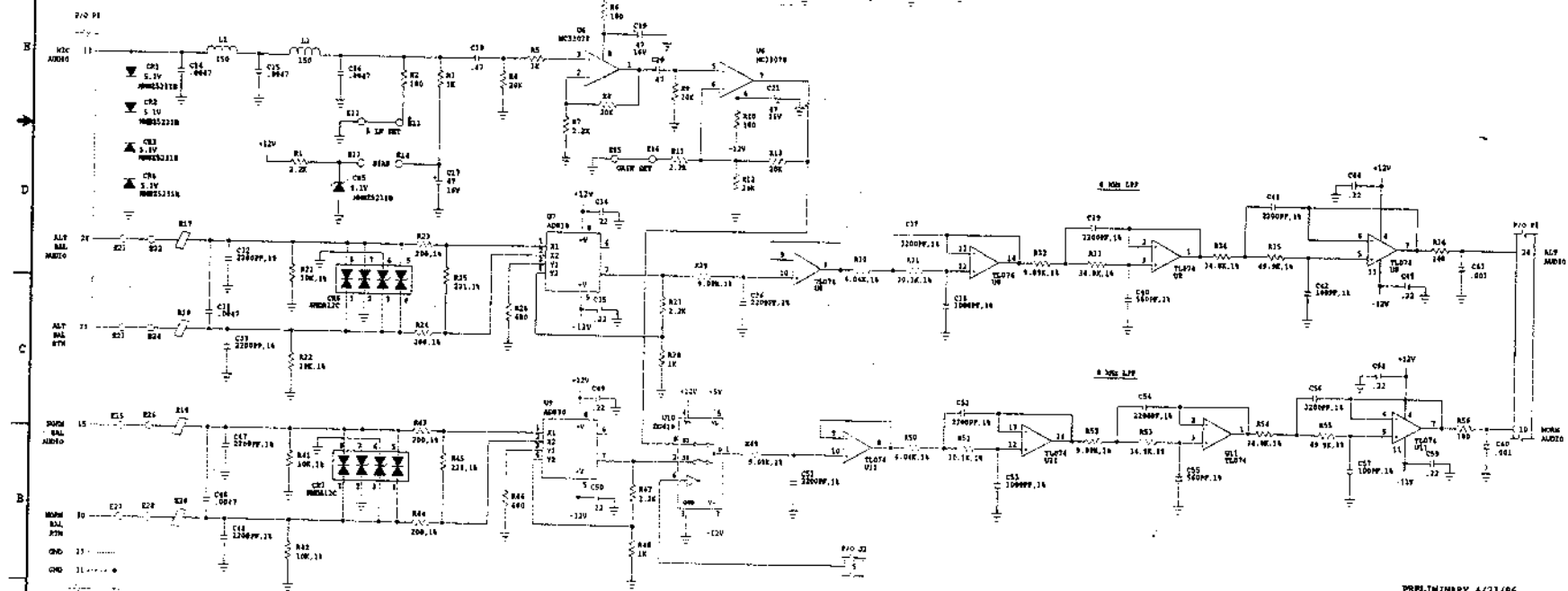
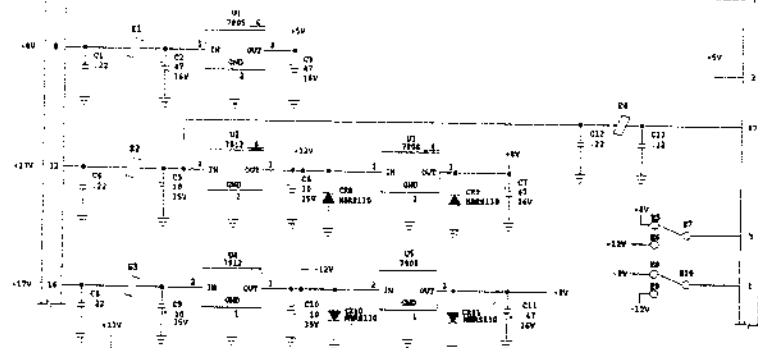
1. INTERFERT SPACING IN ACCORDANCE WITH DOG-STD-109.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
3. RESISTANCE VALUES ARE IN OHMS.
4. INDUCTANCE VALUES ARE IN MICROHENRIES.
5. CROSS REFERENCE OF SIGNALS BETWEEN SHEETS IS INDICATED AS FOLLOWS:

INPUT $\lambda = \frac{\lambda}{y}$ 1000

6. **NOTE:**

		JUNIOR INSTALLATION CHART		
		FUNCTION	STANDARD	ALTERNATE
REFERENCE INSTALLATION LAST USED	REFERENCE INSTALLATIONS NOT USED	REC INJECT 1	R11 - R12	OPEN
			154 ORMS	(1E ORMS)
		REC CRAN	R15 R16	OPEN
			(10TH LUN)	
CRP 221	R16-R20, R17-R20.		OPEN	R17 - R18
			0 V BIAP	(54 V BIAP)
CR11	CR2-CR3.			
CR3		STRTN POWER	R5 - R7	64 BT
			1V	(52V)
		STRTN POWER	R8 - R9	125 BT
			1V	(125V)
CR4				

WORK MEDIA SELECT	1
VCO SEL	1
MI	4
STEP FAULT	1
STEP IN	1
FINISH IN	2
EXT REP ON	2
EXT CLR	2
EXT DATA	2
ISO/FINISH FAULT	1



PRELIMINARY 4/21/96

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U.S. GOVERNMENT PRINTING OFFICE: 1967

SCHEMATIC DIAGRAM,
AUDIO BOARD

HF EXCITER

DATE	NAME	ADDRESS	PHONE
------	------	---------	-------

E	S9532	2607-2402
---	-------	-----------

DATE	TIME	BY	REMARKS

UNLESS OTHERWISE SPECIFIED

INTERPRET DRAWING IN ACCORDANCE WITH DDD-STD-100
DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

ELECTROSTATIC DISCHARGE CONTROL PROGRAM FOR
PROTECTION OF ELECTRICAL AND ELECTRONIC PARTS,
ASSEMBLIES AND EQUIPMENT SHALL BE IN ACCORDANCE
WITH MIL-STD-1686, AND DDD-HDBK-263.

REFERENCE SCHEMATIC DIAGRAM 2600-2404.

SOLDER (WORKMANSHIP) PER MIL-STD-2000A USING FN3
AND/OR FN4.

COMPLETED PRINTED WIRING ASSY SHALL BE IN ACCORDANCE
WITH MIL-STD-454, EXCLUDING CONFORMAL COATING
REQUIREMENT.

RUBBER STAMP, OR EQUIVALENT, "REV" LTR
IN .06 TO .13 HIGH CHARACTERS PER MIL-STD-130,
USING FIND NO. 5, OR EQUIVALENT, LOCATE APPROX
WHERE SHOWN.

TERMINATE THRU LEADS USING UNCLINCHED LEAD ATTACHMENT

APPLY SOLDER PASTE, WHEN APPLICABLE, USING SOLDER
PASTE MASK (COMPNT SIDE) INDICATED IN TABLE 1. THE
LETTER SHOWN DEMOTES THE TOOL REVISION STATUS NOT THE
DOCUMENT REVISION STATUS

JUMPER INSTALLATION CHART

FUNCTION	STANDARD	ALTERNATE
INPUT Z	E11 - E12 (150 OHMS)	OPEN (1K OHMS)
GAIN	E15 - E16 (GAIN=100)	OPEN (GAIN=20)
BIAS	OPEN (0 V BIAS)	E13 - E14 (+5V BIAS)
POWER +V	E5 - E7 (+8V)	E6 - E7 (+12V)
POWER -V	E8 - E10 (-8V)	E9 - E10 (-12V)

TABLE 1

ION MASTER 2607-2302

REV A

.060 MAX
LEAD
PROTRUSION

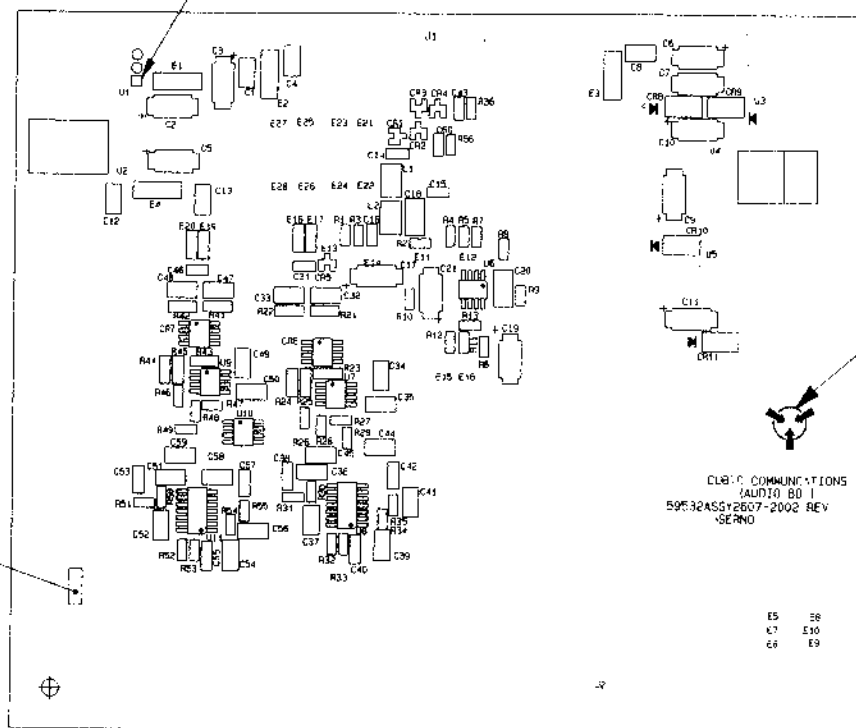
.50 MAX
COMPONENT
HEIGHT

FIDUCIAL
MARKING

CAUTION
SENSITIVE ELECTRONIC DEVICES

													A	REV
13	12	11	10	9	8	7	6	5	4	3	2	1	SH	
REV STATUS OF SHEETS														

SQUARE PIN DENOTES
PIN 1 OR POLARITY
OF PARTS SHOWN



CUBIC COMMUNICATIONS
AUDIO 801
59532ASSY2607-2002 REV
SERNO

E5 E8
E7 E10
E6 E9

1 -2 ASSEMBLY
-1 ASSEMBLY
COMPNT SIDE VIEW
INTERFACIALS ARE NOT SHOWN
FOR CLARITY

SEE SEPARATE PARTS LIST

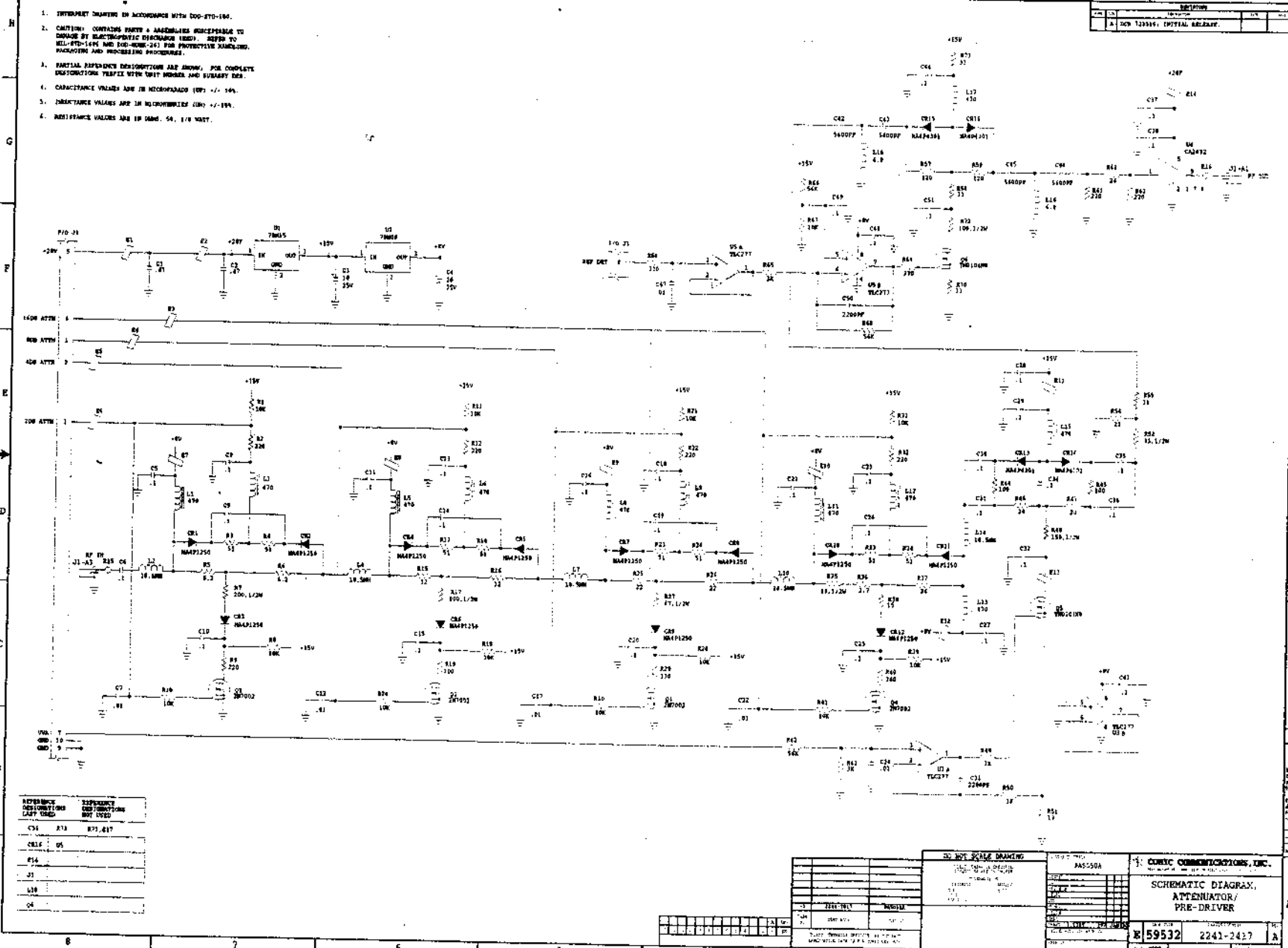
DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE 01 DECIMALS AND/ OR XX .03 XXX .010
2607-1002 T-4190
DASH NO. NEXT ASSY USED IN
UNLESS OTHERWISE SPECIFIED BY CONTRACT APPLICATION DATA IS FOR CUBIC USE ONLY

CONTRACT NUMBER
ISSUED
BY
INFO ENGNG
REL
STG
THRG
DESIGN
CHECK
DRAWN S MUNDT 95 NOV 97
DESIGN ACTIVITY APPROVAL
APPROVED

CUBIC COMMUNICATIONS, INC.
4000 HENDERSON AVE., P.O. BOX 4000, SAN DIEGO, CA 92161-0400
PRINTED WIRING ASSEMBLY, AUDIO
SIZE CODE CODE DRAWING NUMBER REV
D 59532 2607-2002 A
SCALE 2/1 SH 1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DRAWING IN ACCORDANCE WITH DDG-STD-100.
2. CAUTION: CONTAINS PARTS & ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). REFER TO DDG-STD-100 AND DDG-STD-101 FOR PROTECTIVE HANDLING, PACKAGING AND PROCESSING PROCEDURES.
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATIONS, REFERENCE UNIT NUMBER AND SUBSYSTEM DES.
4. CAPACITANCE VALUES ARE IN MICROFARADS (UF) +/- 10%.
5. INDUCTANCE VALUES ARE IN MICROHENRIES (UH) +/- 10%.
6. RESISTANCE VALUES ARE IN OHMS, 5%, 1/4 WATT.



DO NOT SCALE DRAWING		PARTS LIST	
REVISIONS		REVISIONS	
DATE: 11/11/81		DATE: 11/11/81	
BY: [Signature]		BY: [Signature]	
CHECKED: [Signature]		CHECKED: [Signature]	
APPROVED: [Signature]		APPROVED: [Signature]	
TITLE: SCHEMATIC DIAGRAM, ATTENUATOR/PRE-DRIVER		TITLE: SCHEMATIC DIAGRAM, ATTENUATOR/PRE-DRIVER	
PROJECT: 59532		PROJECT: 59532	
SUBJECT: 2241-2437		SUBJECT: 2241-2437	
DRAWN: [Signature]		DRAWN: [Signature]	
DATE: 11/11/81		DATE: 11/11/81	

4

UNLESS OTHERWISE SPECIFIED

INTERPRET DRAWING IN ACCORDANCE WITH ODD-STD-100.
DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

ELECTROSTATIC DISCHARGE CONTROL PROGRAM FOR PROTECTION
OF ELECTRICAL AND ELECTRONIC PARTS, ASSEMBLIES AND
EQUIPMENT SHALL BE IN ACCORDANCE WITH MIL-STD-1686
AND ODD-HDBK-263.

REFERENCE SCHEMATIC DIAGRAM 2241-2415.

OLDER WORKMANSHIP ONLY PER MIL-STD-2000 USING SOLDER IN
ACCORDANCE WITH OPERATING INSTRUCTIONS 400.9 AND 600.4.

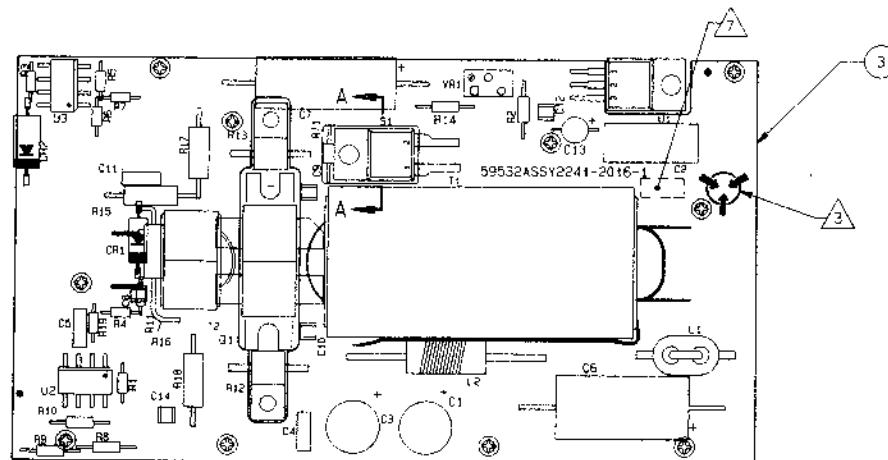
7 RUBBER STAMP, OR EQUIVALENT, REV LTR AND SERNO
IN .06-.13 HIGH CHARACTERS PER MIL-STD-130
LOCATE APPROX WHERE SHOWN.

8 TERMINATE THRU LEADS USING UNCLINCHED LEAD ATTACHMENT.

9. U1, S1, Q1, R12, AND R13 ARE SHOWN FOR REFERENCE ONLY.

REVISIONS			
DATE	BY	DESCRIPTION	APPROVED
97-05-19	JIM BRAY	DCR725986 REPLACES REV - WITH CHANGE (INITIAL RELEASE)	
97-05-19	JIM BRAY	DCR726712 INITIAL RELEASE	
97-05-19	JIM BRAY	DCR727287 REPLACES REV B WITH CHANGE REVISED "NEXT ASSY"	
97-09-08	JIM BRAY		

0.060 MAX
LEAD
PROTRUSION



VIEW A-A
SCALE: 4X1

72 MAX
COMPONENT
HEIGHT
(MOUNT SIDE)

1 -1 ASSEMBLY

INTERFACIAL CONNECTIONS ARE SHOWN
FOR ORIENTATION PURPOSES ONLY

SEE SEPARATE PARTS LIST



CAUTION
SENSITIVE ELECTRONIC DEVICES

22	12	11	10	9	8	7	6	5	4	3	2	1	SH	REV	C
----	----	----	----	---	---	---	---	---	---	---	---	---	----	-----	---

REV	DESCRIPTION	DATE	BY	APP'D
-1	2241-1112-1	PAS050A		
DASH	NO	NEXT ASSY	USED ON	

UNLESS OTHERWISE SPECIFIED BY CONTRACT
APPLICATION DATA IS FOR CUBIC USE ONLY

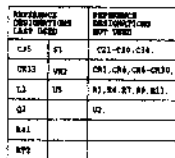
DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCE ON	
DECIMALS	ANGLES
± .01	± 30°
± .005	
± .002	

CONTRACT NUMBER		CUBIC COMMUNICATIONS, INC.	
15080 L. GUTCHARD	970811	A DIVISION OF THE CUBIC CORPORATION FAMILY OF COMPANIES 3000 SHELLEY ST. # 200 HOUSTON, TEXAS 77058-1200	
DA		PRINTED WIRING ASSEMBLY	
WFS ENGINE		POWER AMP DRIVER	
REL			
SID			
DESIGN	H. MAEDA		
DESIGN	C. GARDISON		
CHECK			
DESIGN	K. H. DUONG		
DESIGN ACTIVITY APPROVAL			
APPROVAL			

SIZE	CASE CODE	DRAWING NUMBER	REV
D	59532	2241-2016	C

SCALE: 2/1 SH 1 OF 1

1. INPUT/OUTPUT CHANNELS IN ACCORDANCE WITH DOD-STD-100.
2. CAPACITANCE: CONTAINING PARTS A SUBMITTING DISCREPANCY TO
CHECKER OF ELECTRONIC EQUIPMENT (EEE) - PARTS TO
MIL-STD-1048 AND DOD-STD-163 FOR PROTECTIVE LABELING,
PACKAGING AND PROCEDURES PROCEDURES.
3. PARTIAL PARTS/REPAIRS/REWORKS AND GROW: FOR COMPLETE
IDENTIFICATION PARTS WITH TYPE NUMBER AND SERIALS NOS.
4. CAPACITANCE VALUES ARE IN MICROFARADS (UF) - 0.1%.
5. RESISTANCE VALUES ARE IN MICROHMS (UH) - 0.1%.
6. RESISTANCE VALUES ARE IN OHMS (OH) - 0.1%.
7. - INDUCTIVE VALUES ARE IN MILLIHMS (MH) - 0.1%.

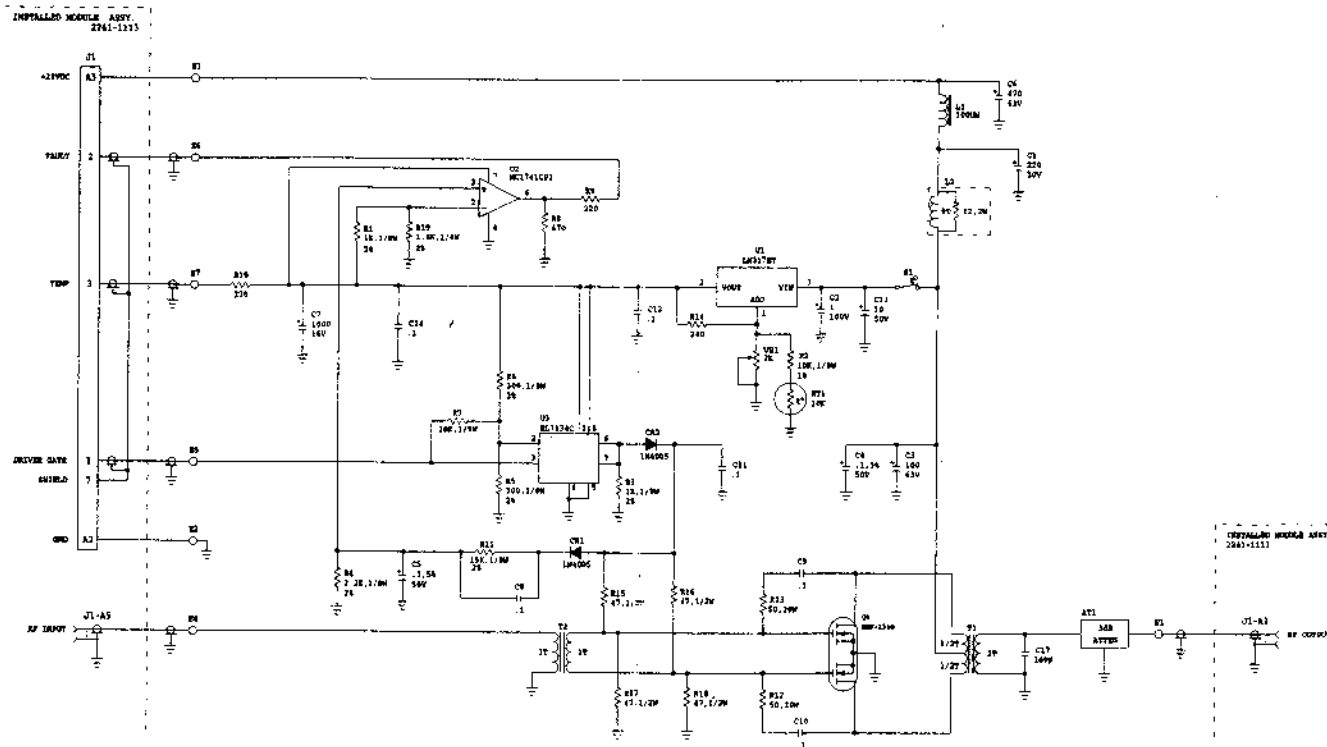


DISPOSITION				
FILE #	DATE	DISPOSITION	DATE	FILE #
A	DEC 25 1963	1475741 REL-6408		
		N. LIT 97-03-18		
B	DEC 26 1967	ENCLOSURE CHAMBER FOR NUMBERED PRINT.	97-08-14 97-08-12 97-08-12 97-08-13	ENCLOSURE ENCLOSURE ENCLOSURE ENCLOSURE
		N. LIT 97-06-02		
C	DEC 27 1965	ARMED REL 240. PJS 15 2C WMS 104. PJS 15 47 WMS 104.		
		X. LIT 97-04-22		

[illegible]

3. INTERPRET CHANGES IN ACCORDANCE WITH GDS-STD-180.
4. CRYSTAL. COMPUTING PARTY IS SUBMITTED MICROGRAPH TO CHECK FOR RESIDUAL PHASES (RSP) - RATES TO MET-STD-184 AND GDS-BME-163 FOR RESIDUALS MONITORING, PROCEEDING WITH PHOSPHO-20 PROCEDURES.
5. PHASES. REFERENCE DISPOSITIONS ARE GIVEN FOR COMPLETE DISPOSITIONS FOR PHASE WITH GDS NUMBER AND NUMBER OF
6. CAPACITANCE VALUES ARE IN MICROPHASE (MP) - $0.1 - 100$.
7. IMPORTANCE VALUES ARE IN MICROPHASE (IM) - $1 - 100$.
8. RESISTANCE VALUES ARE IN 10^{-3} OHMS, $1/4$ MWT.
9. - MICROPHASE VALUE IS ACTIVE LOW IF IT FALLS OVER CLOSE

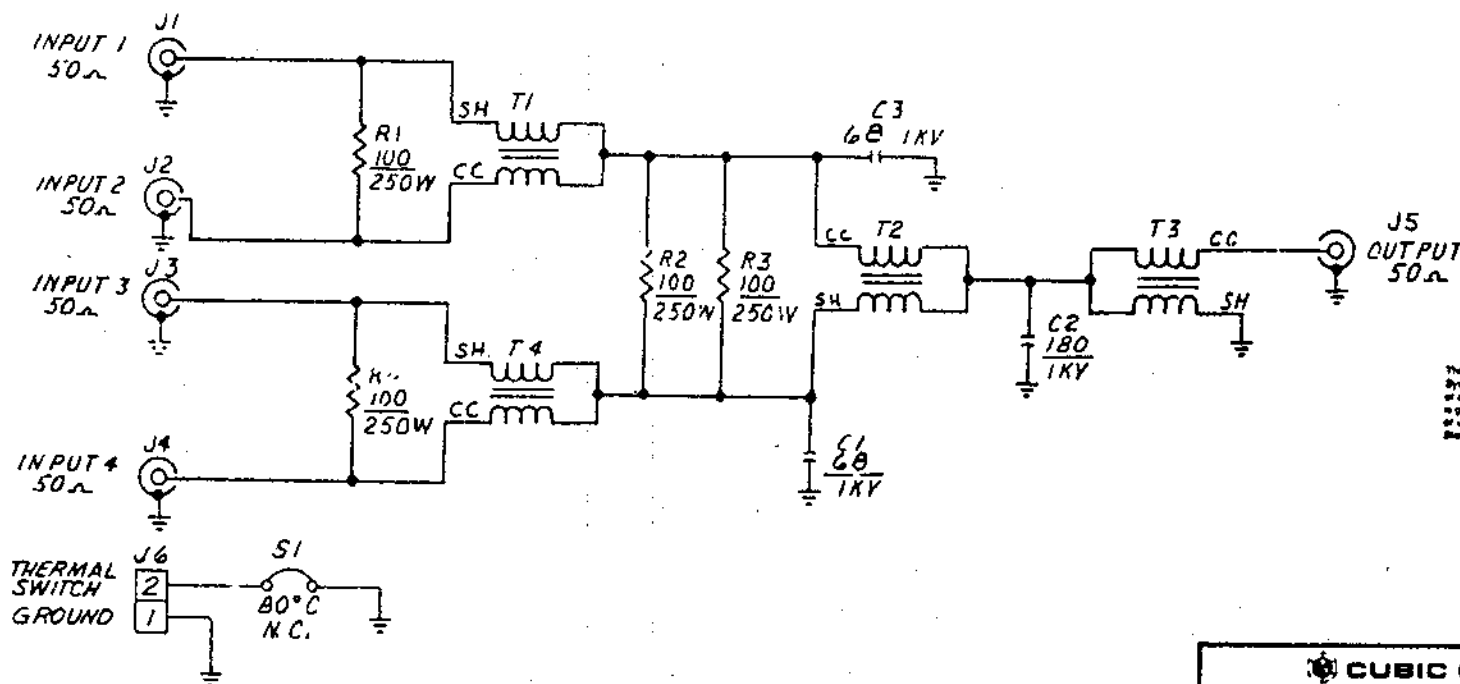
Index	File	Page	Page	Page
A	DCN 729554 & DCN 724712: INITIAL RELEASE.			
	R.LIST 87-04-25			
B	DCN 724641: CHANGED # OF TURNS FOR T1 & T2.	87-08-09	87-08-09	87-08-09
	R.LIST 87-08-22	87-08-12	87-08-12	87-08-12
C	DCN 727845, UNCORROBORATED CHANGES PER MARKING PRINT.	87-08-02	87-08-02	87-08-02
	R.LIST 74-11-16			



REFERENCE CIRCUMSTANCES LAST USED	REFERENCE CIRCUMSTANCES NOT USED
RT1	RT1
CT1	RT1
CT2	CT2
RT	CT
CT	RT
CT	CT

DO NOT WRITE OVER PRINTING Drawn (Indicate Drawing) Checked by (Indicate) Released by (Indicate) Material (Indicate) Date (Indicate)		Authority (Indicate) Part No. 24416 Rev. 1 (Indicate) Date (Indicate) Drawn (Indicate) Checked by (Indicate) Released by (Indicate) Material (Indicate) Date (Indicate)	CONRAD COMMUNICATIONS, INC. 1000 NORTH 17TH ST. SUITE 100 DENVER, CO 80202 (303) 733-1111
Part No. 24416 Rev. 1 Date (Indicate)		SCHEMATIC DIAGRAM, POWER AMP DRIVER 2-30 MHz	
Part No. 24416 Rev. 1 Date (Indicate)		Part No. 24416 Rev. 1 Date (Indicate)	

REVISIONS			
LTR	DESCRIPTION	DATE	APPD
A	REVISED	93-02-11 2/2/12	NEA HET



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REFERENCE DESIGN

LAST USED		NOT USED
R4	S1	
C3	J6	
T4		

CUBIC COMMUNICATIONS

A member of the Cubic Corporation family of companies
305 Airport Rd. Oceanside, CA 92054

FSCM 59532

SCALE

APPROVED BY

DRAWN BY H.J.P.

DATE 4-30-86

CHECKED J.C.

COMBINER BOARD SCHEMATIC

TEST ASSEMBLY	QTY	MODEL	REV	DRAWING NUMBER
		PA-5050	A	2241-2404

- ALL TRANSFORMERS ARE JT-RG-1316
 - ALL CAPACITOR VALUES ARE IN PICOFARADS.
 - ALL RESISTOR VALUES ARE IN OHMS.
- NOTES: UNLESS OTHERWISE SPECIFIED.

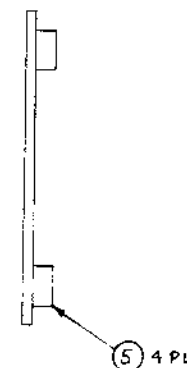
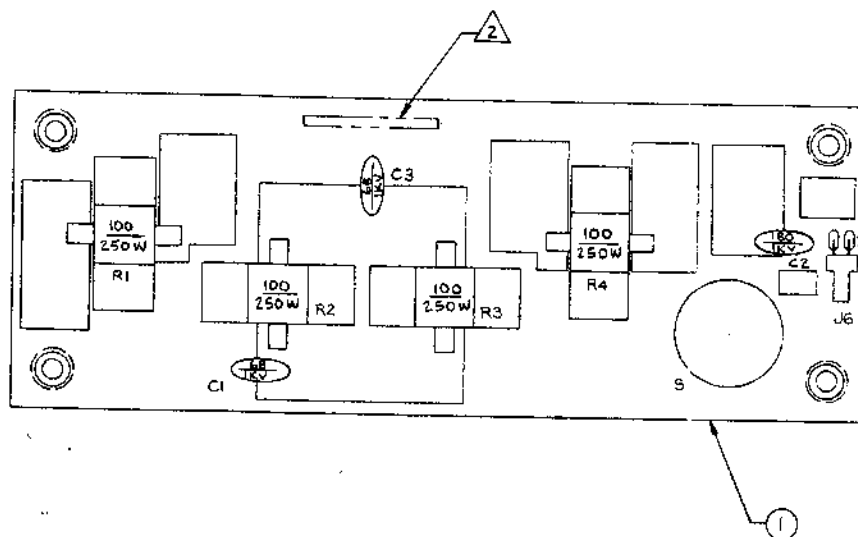
NOTES: UNLESS OTHERWISE SPECIFIED:

1. SOLDER USING SN63WRMAP2 PER QQ-S-571.

2. IDENTIFY AS 2241-2004-1 REV LTR BY RUBBER STAMPING (OR EQUIVALENT) IN CONTRASTING COLOR PER MIL-STD-130. LOCATE APPROX WHERE SHOWN.

3. R1-R4, S1 ADDED ON NEXT ASSY.

REVISIONS			
LTR	DESCRIPTION	DATE	APPRO
A	REVISED	93-2-10	HEJ
B	DCR 723016: CHANGED NOTE 2.	93-4-11 96-4-8	HEJ
M. THORP 96-3-22			



-1 ASSY

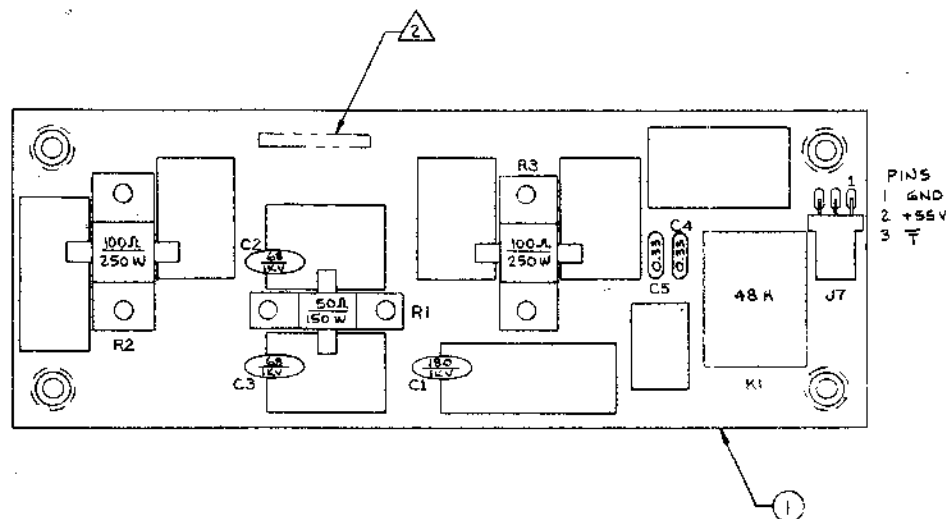
SEE SEPARATE PARTS LIST

CUBIC COMMUNICATIONS A member of the Cubic Corporation family of companies 300 Airport Rd., Channahon, IL 61004			
SCALE 2:1	APPROVED BY	FSCM 58632	
DATE 5-4-87		DRAWN BY JLS	
		CHECKED	
COMBINER BOARD ASSY			
REV. 1	QTY 1	MODEL PA-5050A	REV. B
2241-1105			DRAWING NUMBER 2241-2004

NOTES: UNLESS OTHERWISE SPECIFIED

1. SOLDER, USING SN63WRMAP2, PER QQ-5-571.
2. IDENTIFY AS 2241-2005-1 REV LTR BY RUBBER STAMP (OR EQUIVALENT) CONTRASTING COLOR PER MIL-STD-130. LOCATE APPROX WHERE SHOWN.
3. R1-R3 ADDED ON NEXT ASSY.

REVISIONS			
LTR	DESCRIPTION	DATE	APPRO
A	REVISED	93-01-05	8156
B	DCR 723 016; CHANGED NOTE 2.	96-11-11	8156
	M. THORP 96-3-22	96-4-8	8156

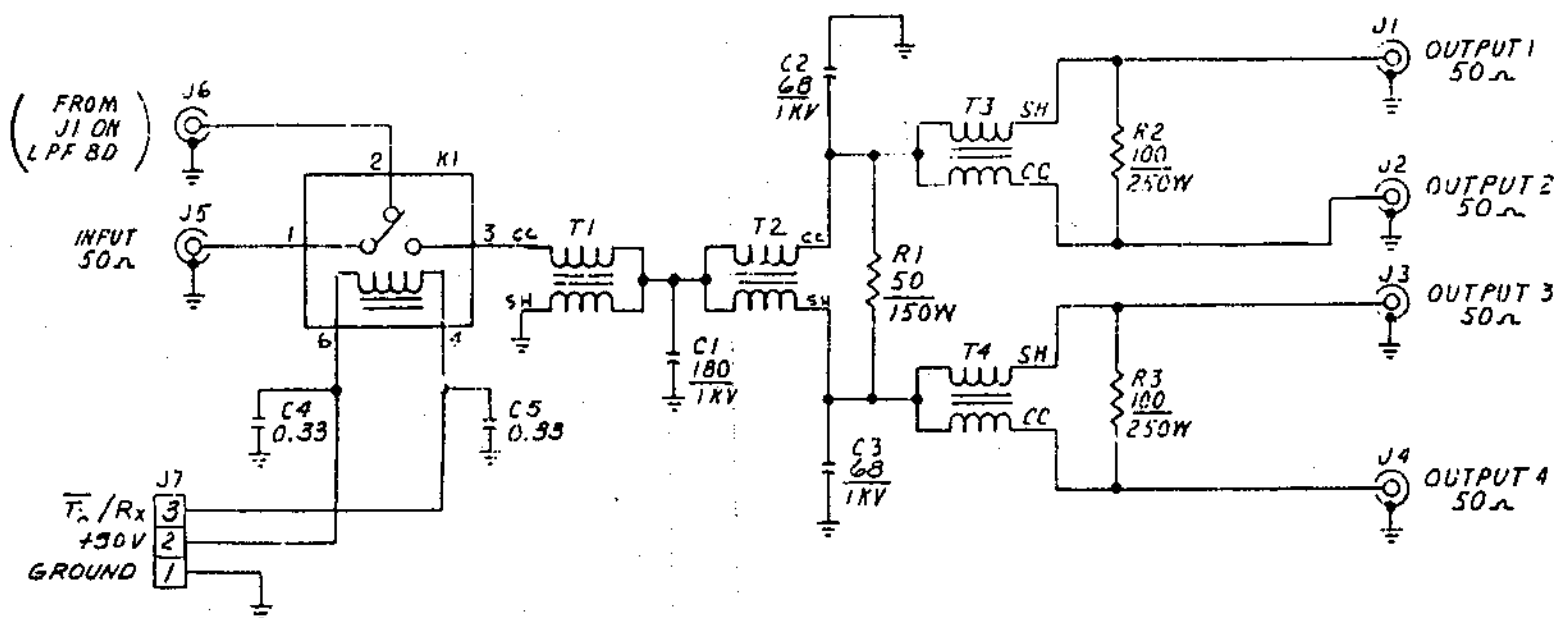


-1 ASSY

SEE SEPARATE PARTS LIST

CUBIC COMMUNICATIONS			
A MEMBER OF THE CUBIC CORPORATION FAMILY OF COMPANIES 205 Airport Rd., Cupertino, CA 95014			
SCALE: 2:1	APPROVED BY:	FSCM 69532	
DATE: 4-30-87	CHECKED:	ORIGIN BY: JLS	
SPLITTER BD. ASSY			
NEXT ASSEMBLY:	QTY:	MODEL:	REV:
2241-1106	1/1	PA-5050A	B
DRAWING NUMBER:		2241-2005	

REVISIONS			
LTR	DESCRIPTION	DATE	APPO
A	REVISED	3-2-79	HEJ
		93-12-12	HEJ



REFERENCE DESIG
LAST USED

R3	J7
C5	K1
T4	CRI

4. ALL TRANSFORMERS ARE ST-80/116
3. CC = CENTER CONDUCTOR, SH = SHIELD
2. CAPACITANCE VALUES IN PICOFARADS
1. RESISTANCE VALUES IN OHMS.
NOTES: UNLESS OTHERWISE SPECIFIED.

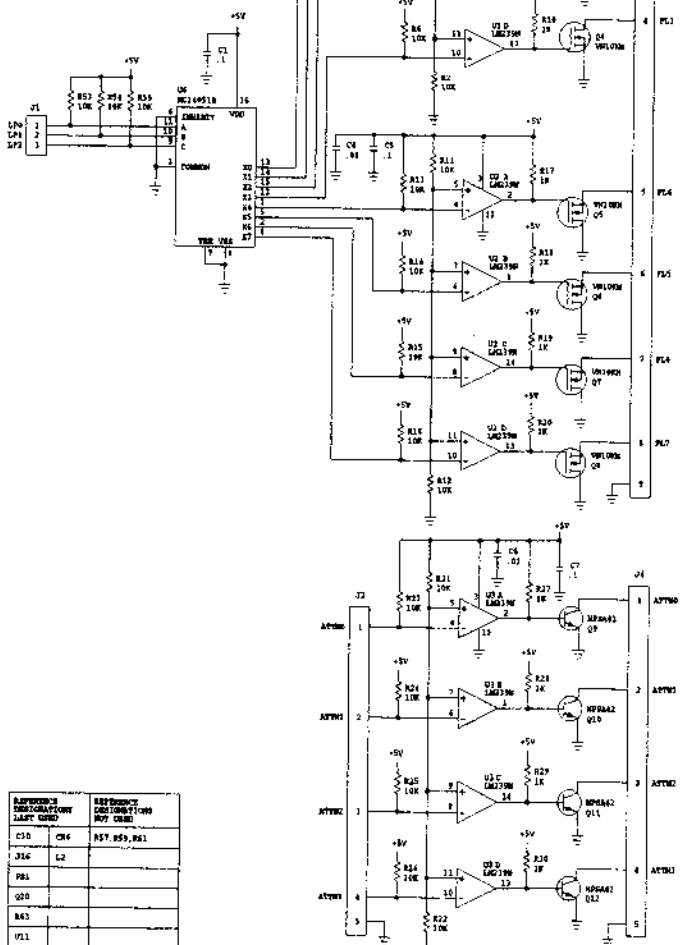
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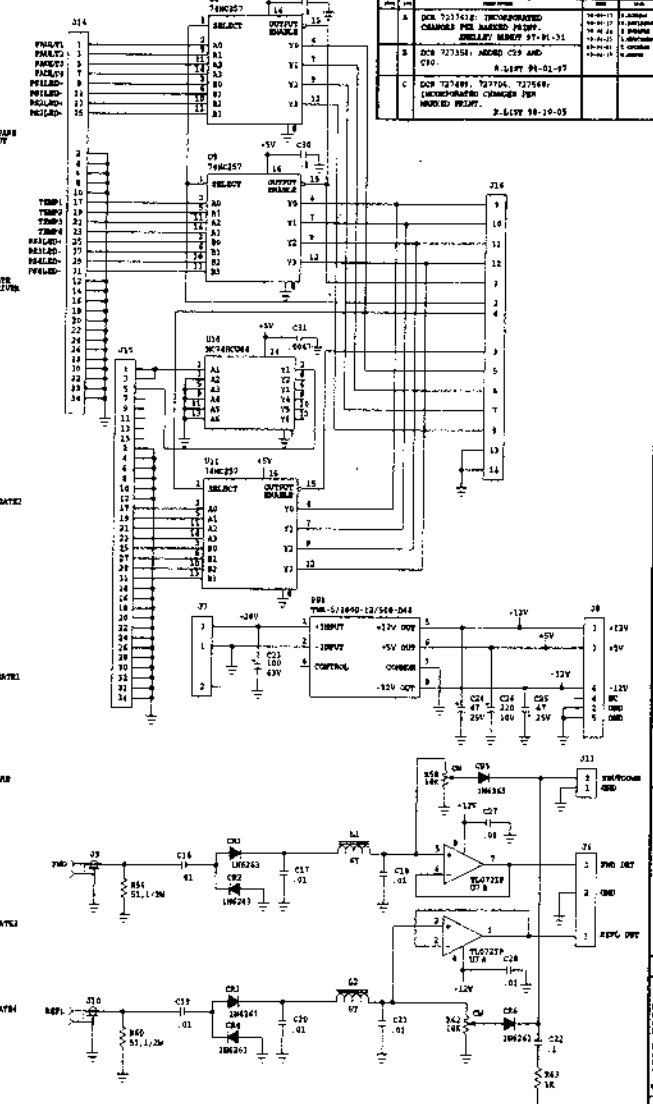
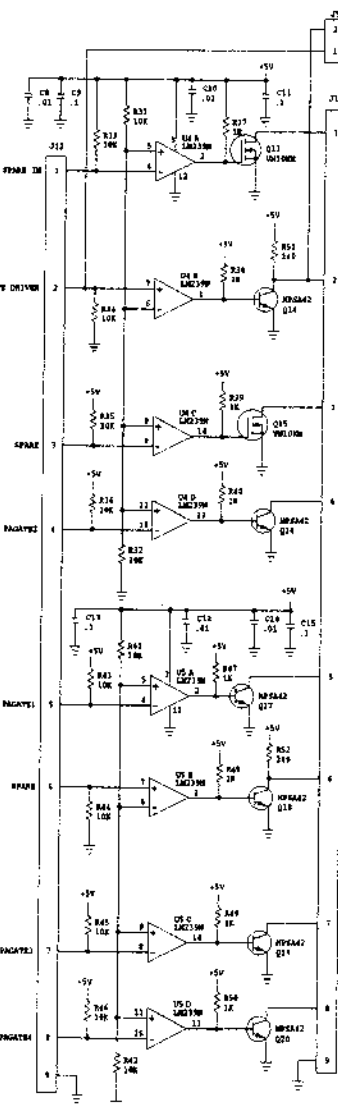
CUBIC COMMUNICATIONS A member of the Cubic Corporation family of companies 305 Airport Rd. Oceanside, CA 92064		FSCM 59532	
		DRAWN BY: H. J. P. CHECKED: RV	
SCALE: _____	APPROVED BY: _____		
DATE: 5-1-86			
SPLITTER BOARD SCHEMATIC			
NEXT ASSEMBLY 2241-2005	QTY 1	MODEL PA-5050	REV A
		DRAWING NUMBER 2241-2405	

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100.
2. CAUTION: CONTAINS HAZARDOUS MATERIALS. TO AVOID INJURY, DO NOT TOUCH THE SURFACE OF THE COMPONENTS. REFER TO MIL-STD-100 AND MIL-STD-101 FOR PROTECTIVE HANDLING, PACKAGING AND PROCESSING PROCEDURES.
3. PARTIAL ADDRESS INFORMATION ARE PROVIDED FOR COMPLETE IDENTIFICATION. PARTIAL ADDRESS AND PARTIAL DATA.
4. CHARACTERISTICS VALUES ARE IN MICROFANOUT (MIL) $\pm 1\%$.
5. PERFORMANCE VALUES ARE BY GDS, 50, 1/4 INCH.



REFERENCE DESIGNATION	VALUE	REFERENCE DESIGNATION	VALUE
C10	10K	R17	10K
C11	10K	R18	10K
C12	10K	R19	10K
C13	10K	R20	10K
C14	10K	R21	10K
C15	10K	R22	10K
C16	10K	R23	10K
C17	10K	R24	10K
C18	10K	R25	10K
C19	10K	R26	10K
C20	10K	R27	10K
C21	10K	R28	10K
C22	10K	R29	10K
C23	10K	R30	10K
C24	10K	R31	10K
C25	10K	R32	10K
C26	10K	R33	10K
C27	10K	R34	10K
C28	10K	R35	10K
C29	10K	R36	10K
C30	10K	R37	10K
C31	10K	R38	10K
C32	10K	R39	10K
C33	10K	R40	10K
C34	10K	R41	10K
C35	10K	R42	10K
C36	10K	R43	10K
C37	10K	R44	10K
C38	10K	R45	10K
C39	10K	R46	10K
C40	10K	R47	10K
C41	10K	R48	10K
C42	10K	R49	10K
C43	10K	R50	10K
C44	10K	R51	10K
C45	10K	R52	10K
C46	10K	R53	10K
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C70	10K	R77	10K
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C73	10K	R80	10K
C74	10K	R81	10K
C75	10K	R82	10K
C76	10K	R83	10K
C77	10K	R84	10K
C78	10K	R85	10K
C79	10K	R86	10K
C80	10K	R87	10K
C81	10K	R88	10K
C82	10K	R89	10K
C83	10K	R90	10K
C84	10K	R91	10K
C85	10K	R92	10K
C86	10K	R93	10K
C87	10K	R94	10K
C88	10K	R95	10K
C89	10K	R96	10K
C90	10K	R97	10K
C91	10K	R98	10K
C92	10K	R99	10K
C93	10K	R100	10K



REFERENCE DESIGNATION	VALUE	REFERENCE DESIGNATION	VALUE
C10	10K	R17	10K
C11	10K	R18	10K
C12	10K	R19	10K
C13	10K	R20	10K
C14	10K	R21	10K
C15	10K	R22	10K
C16	10K	R23	10K
C17	10K	R24	10K
C18	10K	R25	10K
C19	10K	R26	10K
C20	10K	R27	10K
C21	10K	R28	10K
C22	10K	R29	10K
C23	10K	R30	10K
C24	10K	R31	10K
C25	10K	R32	10K
C26	10K	R33	10K
C27	10K	R34	10K
C28	10K	R35	10K
C29	10K	R36	10K
C30	10K	R37	10K
C31	10K	R38	10K
C32	10K	R39	10K
C33	10K	R40	10K
C34	10K	R41	10K
C35	10K	R42	10K
C36	10K	R43	10K
C37	10K	R44	10K
C38	10K	R45	10K
C39	10K	R46	10K
C40	10K	R47	10K
C41	10K	R48	10K
C42	10K	R49	10K
C43	10K	R50	10K
C44	10K	R51	10K
C45	10K	R52	10K
C46	10K	R53	10K
C47	10K	R54	10K
C48	10K	R55	10K
C49	10K	R56	10K
C50	10K	R57	10K
C51	10K	R58	10K
C52	10K	R59	10K
C53	10K	R60	10K
C54	10K	R61	10K
C55	10K	R62	10K
C56	10K	R63	10K
C57	10K	R64	10K
C58	10K	R65	10K
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C62	10K	R69	10K
C63	10K	R70	10K
C64	10K	R71	10K
C65	10K	R72	10K
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C78	10K	R85	10K
C79	10K	R86	10K
C80	10K	R87	10K
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C84	10K	R91	10K
C85	10K	R92	10K
C86	10K	R93	10K
C87	10K	R94	10K
C88	10K	R95	10K
C89	10K	R96	10K
C90	10K	R97	10K
C91	10K	R98	10K
C92	10K	R99	10K
C93	10K	R100	10K

8 7 6 5 4 3 2 1
UNLESS OTHERWISE SPECIFIED

INTERPRET DRAWING IN ACCORDANCE WITH DOD-STD-100.
DIMENSIONING AND TOLERANCING PER ANSI V14.5M-1982.

ELECTROSTATIC DISCHARGE CONTROL PROGRAM FOR PROTECTION
OF ELECTRICAL AND ELECTRONIC PARTS, ASSEMBLIES AND
EQUIPMENT SHALL BE IN ACCORDANCE WITH MIL-STD-1686
AND DOD-HDRK-263.

REFERENCE SCHEMATIC DIAGRAM 2241-2407.

SOLDER WORKMANSHIP ONLY PER IPC-A-610, CLASS 3 USING SOLDER IN
ACCORDANCE WITH OPERATING INSTRUCTIONS 600.10 AND 600.4.

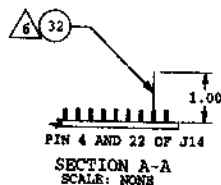
SOLDER BUSH WIRE FN32, AFTER TEST, TO PINS PER IPC-A-610, CLASS 3 AND
IN ACCORDANCE WITH OPERATING INSTRUCTIONS 600.4.

STAMP, OR EQUIVALENT, REV LTR AND SERNO
IN .06-.13 HIGH CHARACTERS PER MIL-STD-130.
LOCATE APPROX WHERE SHOWN.

8. TERMINATE THRU LEADS USING UNCLINCHED LEAD ATTACHMENT.

9. DO NOT INSTALL THE FOLLOWING COMPONENTS - SHOWN FOR
REFERENCE ONLY: R35, R39, R40, R48, R52, Q15, Q18.

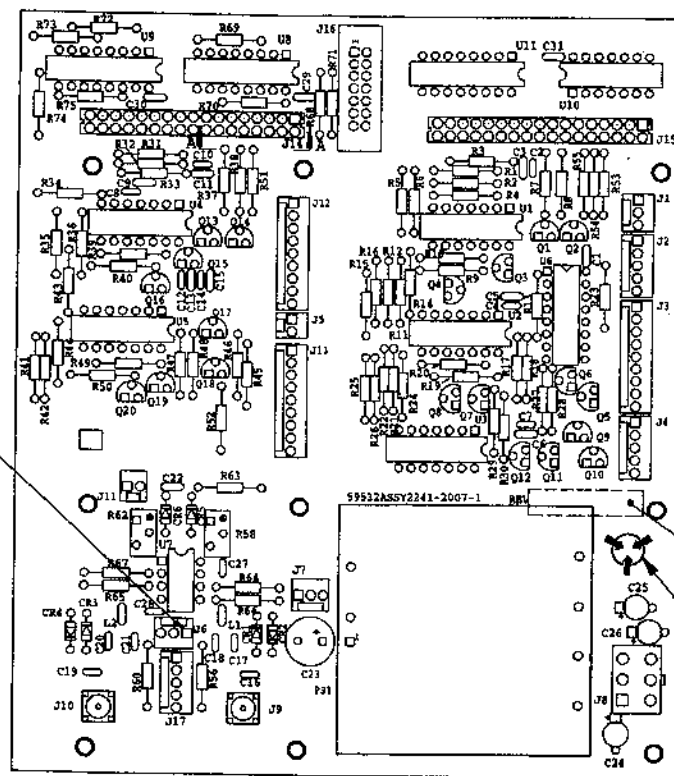
10. BOND THE FOLLOWING COMPONENTS USING FN35:
C23, C24, C25, C26, L1, L2.



.060 MAX
LEAD
PROTRUSION

SQUARE DENOTES
PIN 1 OR POLARITY
OF PARTS INDICATED

.60 MAX
COMPONENT
HEIGHT
(MOUNT SIDE)



① -1 ASSEMBLY
② -2 ASSEMBLY

INTERFACIAL CONNECTIONS ARE SHOWN
FOR ORIENTATION PURPOSES ONLY



CAUTION

SENSITIVE ELECTRONIC DEVICES

REV	1	2	3	4	5	6	7	8	9	10	11	12	13
REV													

UNLESS OTHERWISE SPECIFIED BY CONTRACT
APPLICATION DATA IS FOR CUBIC WIRE ONLY

DO NOT SCALE DRAWING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCE IN	ANGLES
DIMENSIONAL	± .1°
± .1	± .1°
± .1	± .1°

CONTRACT NUMBER	
ISSUED	5/1/95
BY	5/1/95
CHKD	5/1/95
DATE	5/1/95
BY	5/1/95
CHKD	5/1/95
DATE	5/1/95
BY	5/1/95
CHKD	5/1/95
DATE	5/1/95

CUBIC COMMUNICATIONS, INC.
A member of the Cubic Corporation family of companies
1000 N. 10th Street, Suite 100, Phoenix, AZ 85004

PRINTED WIRING ASSEMBLY
FILTER DRIVER

REV	1	2	3	4	5	6	7	8	9	10	11	12	13
REV													

D 59532 2241-2007 H

2241-2007			
REVISIONS			
REV	DATE	DESCRIPTION	BY
A	97-02-11	DCR 723763B: REPLACES REV - WITH CHANGE.	H. COCHRAN
B	97-02-25		L. GUICHARD
C	97-02-21		T. COCHRAN
D	97-02-04		H. FRANK
SHELLEY MUNDT 97-01-30			
B	97-05-07	DCR 726714: ADDED NOTE 10	C. DAVIDSON
C	97-04-17	DCR 726714: ADDED NOTE 9. DELETED DASHED LINES AND NOTE REGARDING COMPONENTS NOT INSTALLED.	L. GUICHARD
D	97-05-29		T. COCHRAN
E	97-05-28		H. FRANK
SHELLEY MUNDT 97-05-28			
D	97-05-24	DCR 727274: ADDED NOTE 4 AND SECTION A-A.	C. DAVIDSON
E	97-05-24		L. GUICHARD
F	97-05-24		T. COCHRAN
SHELLEY MUNDT 97-05-24			
B	98-04-13	DCR 727358, DCR 727489: REPLACES REV D WITH CHANGE. ADDED C19, C10, C31, U10 IS 477-247 (14 PIN).	KIM DO
C	98-04-17		C. DAVIDSON
D	98-04-17		T. COCHRAN
E	98-04-17		L. GUICHARD
SHELLEY MUNDT 98-04-06			
F	99-12-17	DCR 727702: REVERSED NOTE 6.	
G		DCR 727568: REPLACES REV P WITH CHG.	
H		DCR 727822: REPLACES REV G WITH CHG.	
SHELLEY MUNDT 98-12-01			

UNLESS OTHERWISE SPECIFIED

INTERPRET DRAWING IN ACCORDANCE WITH DDC-STD-100.
DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982

ELECTROSTATIC DISCHARGE CONTROL PROGRAM FOR PROTECTION
OF ELECTRICAL AND ELECTRONIC PARTS, ASSEMBLIES AND
EQUIPMENT SHALL BE IN ACCORDANCE WITH MIL-STD-1686
AND DOD-HDBK-263.

REFERENCE SCHEMATIC DIAGRAM 2241-2420

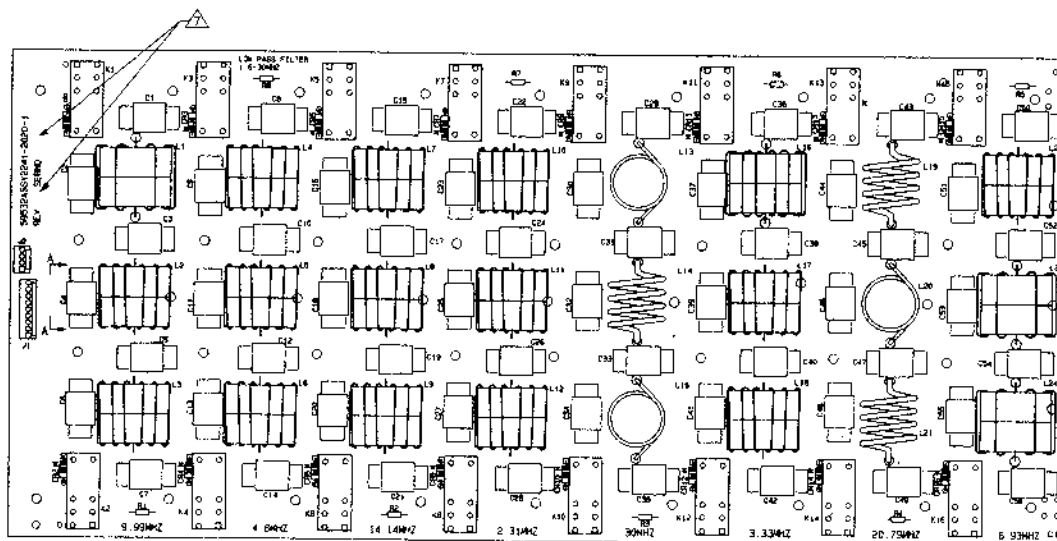
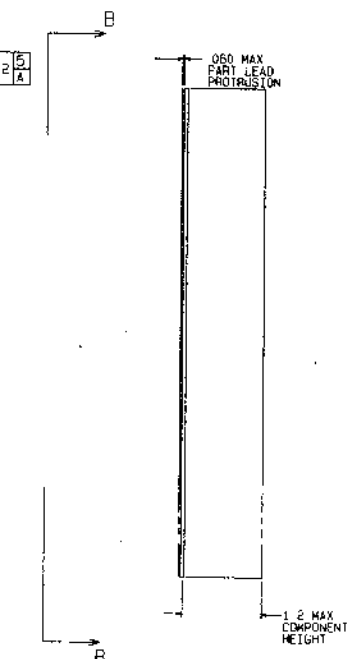
TERMINATE THRU LEADS USING UNCLINCHED LEAD ATTACHMENT.

SOLDER WORKMANSHIP ONLY PER MIL-STD-2000. USE SOLDER IN
ACCORDANCE WITH OPERATING INSTRUCTIONS 600 10 AND 600.4.

△ RUBBER STAMP, OR EQUIVALENT, REV LTR AND SERNO IN
.06-.13 HIGH CHARACTERS, PER MIL-STD-130, USING
FIND NO. 8 OR EQUIVALENT LOCATE APPROX WHERE SHOWN.

△ FORM CAPACITOR LEADS APPROX. AS SHOWN. SOLDER ALL
AROUND USING FN14.

2241-2020		REV		1	
ZONE	LTR	DESCRIPTION	DATE	APPD	



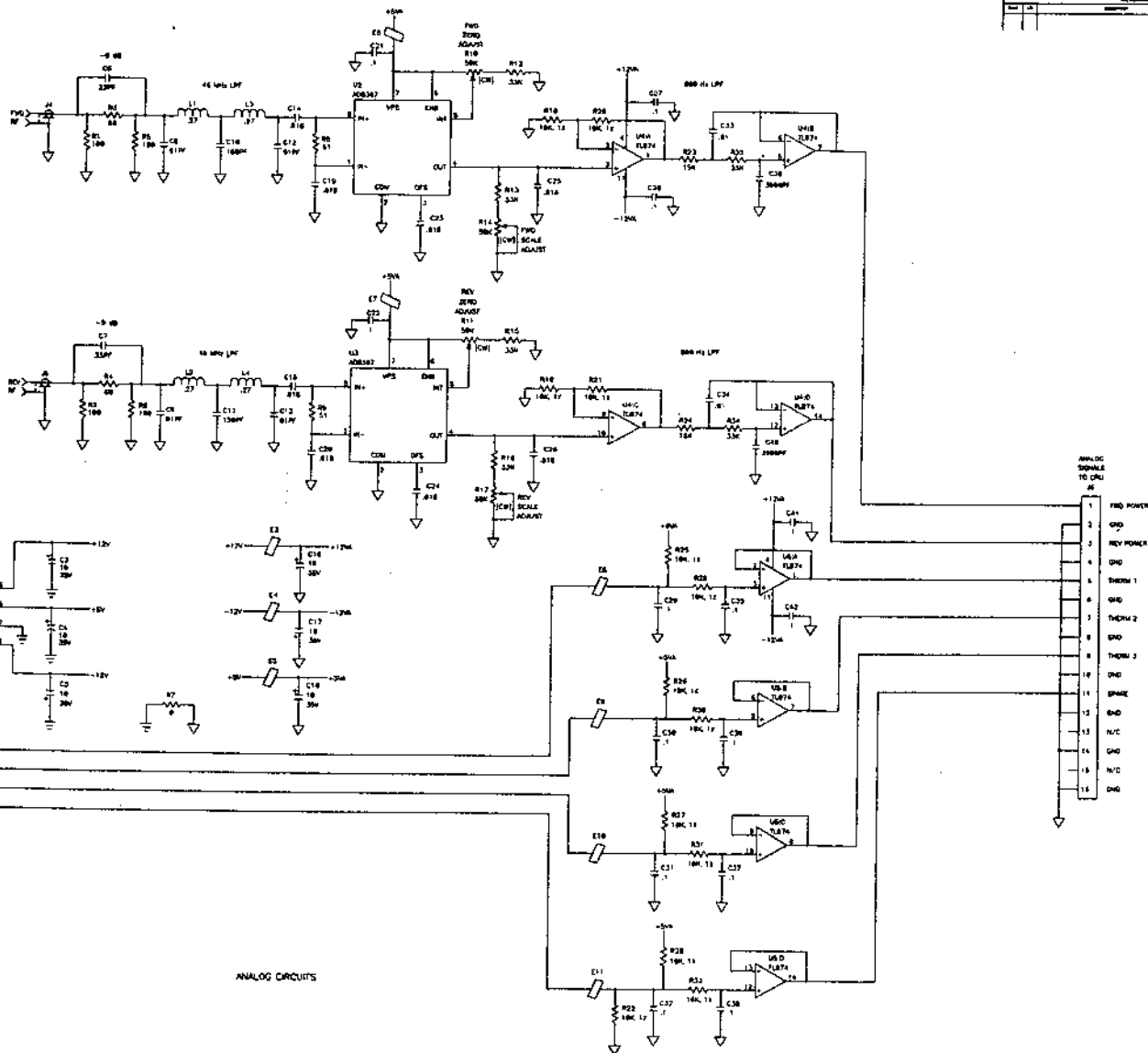
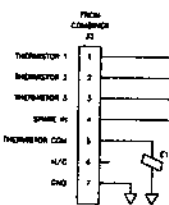
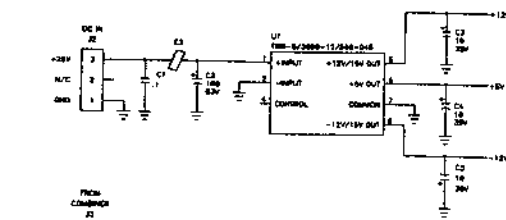
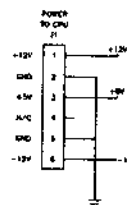
1
-1 ASSEMBLY
COMPONENT SIDE

SEE SEPARATE PARTS LIST

DO NOT SCALE DRAWING										CONTRACT NUMBER									
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES										A NUMBER OF THE CUBIC CORPORATION FAMILY OF COMPANIES 800 MAPLE ST. P.O. BOX 99997, SAN JOSE, CA 95109-9997									
TOLERANCE ON										PRINTED WIRING ASSEMBLY LOW PASS FILTER									
DECIMALS										DRAWN JTH BRAY									
.XX .03										CHECKED									
XXX .010										DESIGN ACTIVITY APPROVAL									
-1 2241-11 PAS050A										SIZE D 59532									
DASH NO MEAT ASSY USED ON										DRAWING NUMBER 2241-2020									
UNLESS OTHERWISE SPECIFIED BY CONTRACT APPLICATION DATA IS FOR CUBIC USE ONLY										REV -									
23 12 11 10 9 8 7 6 5 4 3 2 1 SH										SCALE FULL SH 1 OF 2									

NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONS IN ACCORDANCE WITH MIL-STD-100.
2. CAUTION: CONTAINS PARTS & ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). REFER TO MIL-STD-1000 AND MIL-STD-883C FOR PROTECTIVE HANDLING, PACKAGING AND PROCESSING PROCEDURES.
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN FOR COMPLETE DESIGNATIONS PREPARED WITH LINE NUMBER AND SUBSYSTEM DES.
4. CAPACITANCE VALUES ARE IN MICROFARADS (UF).
5. RESISTANCE VALUES ARE IN OHMS (OH), K (K), OR M (M).



PRELIMINARY 80-07-24

REFERENCE DESIGNATIONS NOT USED	REFERENCE DESIGNATIONS NOT USED
Q13	Q17
Q19	Q18
Q16	
Q14	
Q12	

DO NOT SCALE DRAWING		CUBIC COMMUNICATIONS, INC.	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		SCHEMATIC DIAGRAM	
DATE: 12/15/80		CTX-5000 CONTROL BOARD	
DRAWN BY: J. R. H.		E 59532 2245-2401	
CHECKED BY: J. R. H.		DATE: 12/15/80	
APPROVED BY: J. R. H.		DATE: 12/15/80	

SOLDER FROM SHIELD OF CABLE TO GROUND PLANE OF NO. 2 AFTER SOLDERING CENTER CONDUCTOR OF CABLE CABLE 2.

REVISONS				
ZONE	LTR	DESCRIPTION	DATE	APPRO
A	DCR 723623	REPLACES REV - WITH CHANGE, COMPLETELY REVISED AND REDRAWN.	96-07-08 96-07-22 96-07-28 96-07-08	C. DAVIDSON C. DAUTCHMAN T. COCHMAN E. WEISE
		MARK CHAN	06-17-96	
B	DCR 723463		96-07-18	C. Davidson
C	DCR 723465, 723623			
D	DCR 723466, 723626, 723661	REPLACES REV A WITH CHANGE, REVISED AND REDRAWN.	96-10-15	Mark Chan
		MARK CHAN	10-17-96	

REV A

REV STATUS OF SHEETS

		DO NOT SCALE DRAWING		CONTRACT NUMBER		 CUBIC COMMUNICATIONS INC. A division of the Cubic Corporation family of companies 4000 Woodward Ave. • P.O. Box 60007 • San Diego, Ca. 92160-0007	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TYPED DIA RPS DIMS HOLE STD CHAIN DETAIL CHECK DRAWN MARK CHAN DESIGN ACTIVITY APPROVAL		PRINTED WIRING ASSEMBLY, RF ANALOG	
		TOLERANCE ON		DECIMALS .1 ± .1 .XX ± .03 .XXX ± 0.10		SIZE CASE CODE D 59532	
-1 2607-1103				NOV 1978		DRAWING NUMBER 2607-2003	
DASH NO. NEXT ASSY USED IN				APPROVED SCALE 2/1		REV D SH 1 OF 3	
UNLESS OTHERWISE SPECIFIED BY CONTRACT APPLICATION DATA IS FOR CUBIC USE ONLY							

20

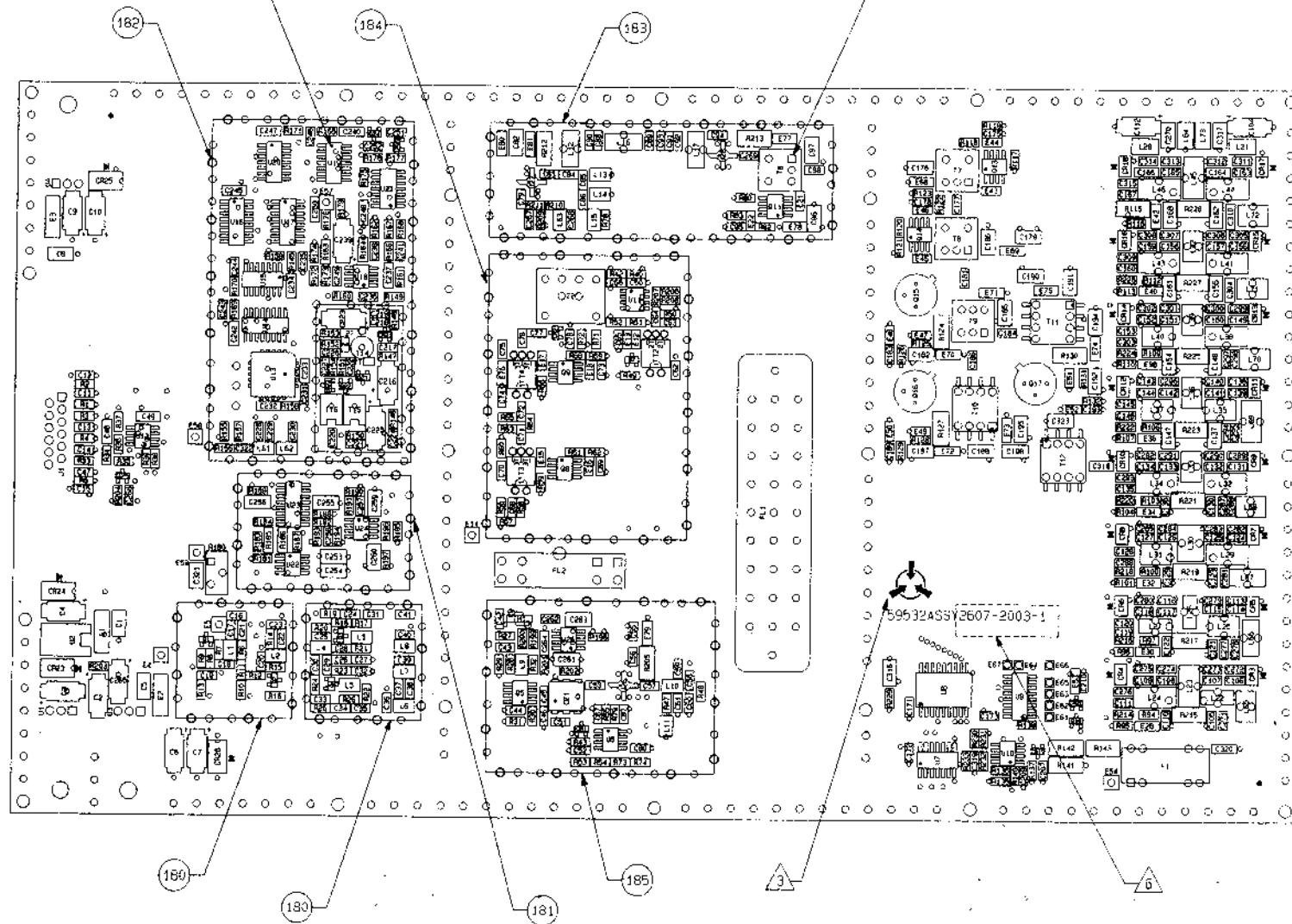
0.60 MAX
LEAD
PROTRUSION

MAX
COMPONENT
HEIGHT
(TOP SIDE)

A

DOT INDICATES PIN 1
ON PARTS INDICATED

SQUARE PIN INDICATES PIN 1
ON PARTS INDICATED



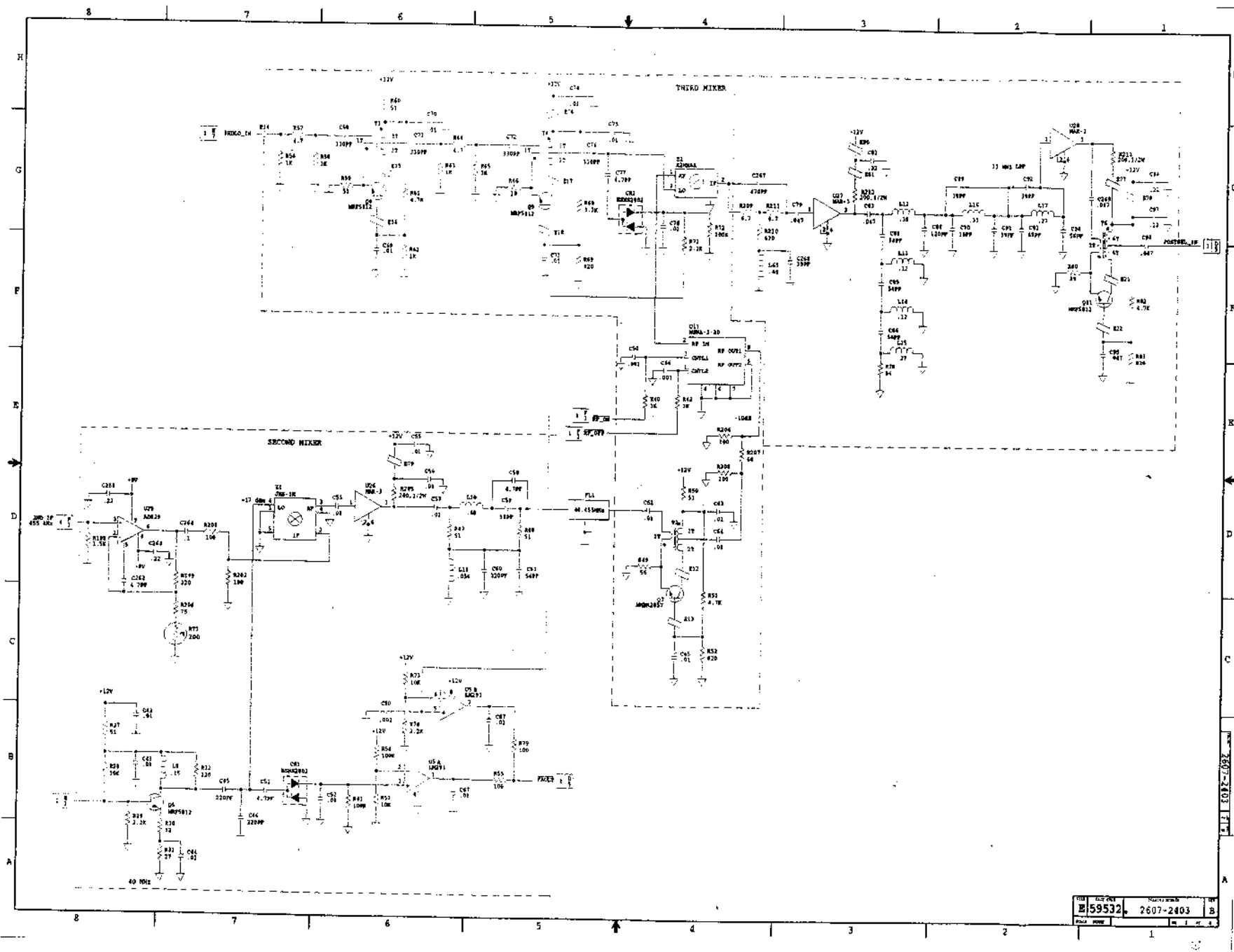
(1) - 1 ASSEMBLY

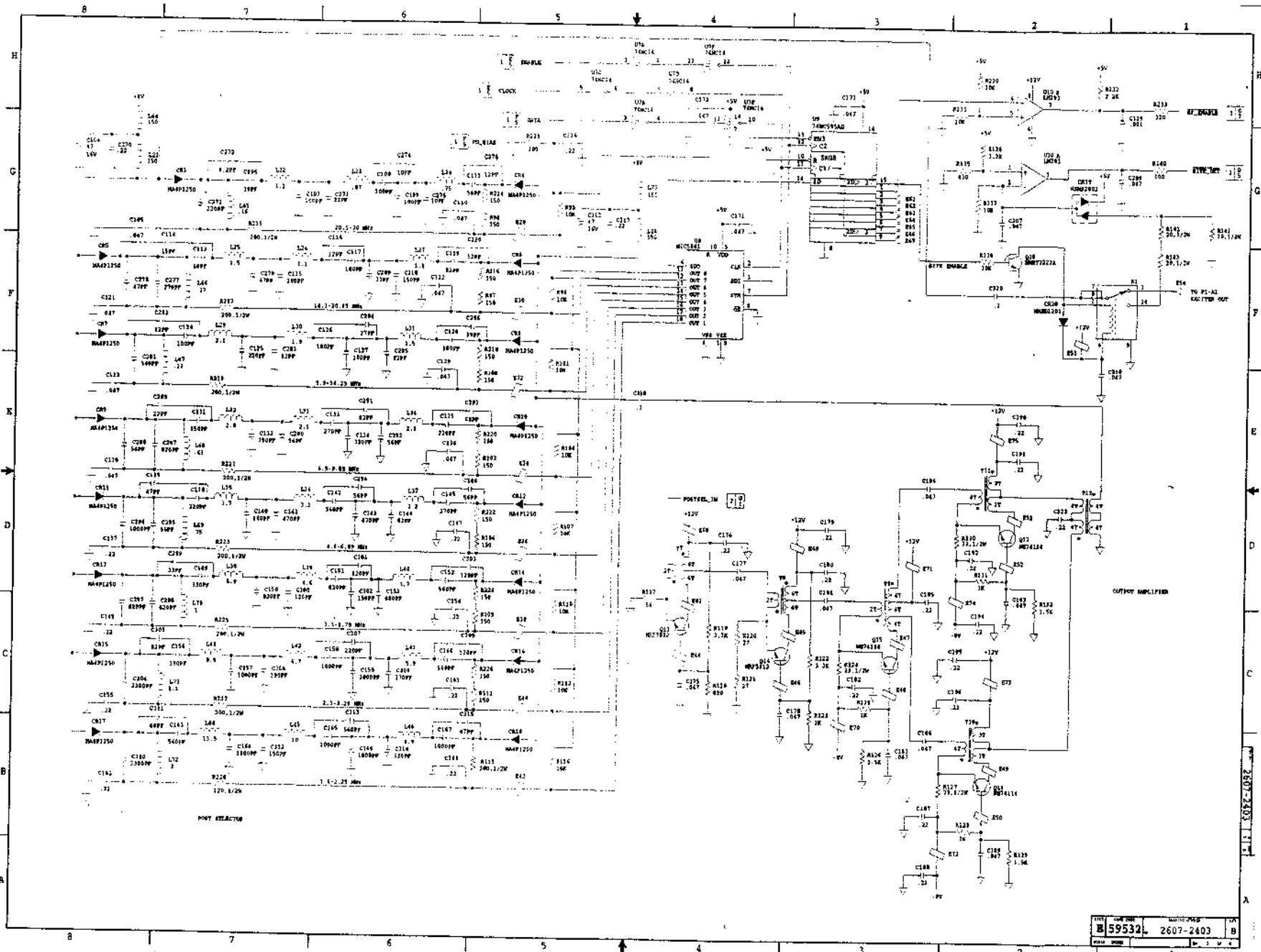
INTERFACIAL CONNECTIONS ARE SHOWN
FOR ORIENTATION PURPOSES ONLY

REVISIONS			
ZONE	LINE	DESCRIPTION	DATE
	D	SEE SHEET ONE	

SIZE	DWG CODE	DATE NUMBER	REV
D	59532	2607-2003	0
SCALE	2/1	BY	2 OF

21





25

