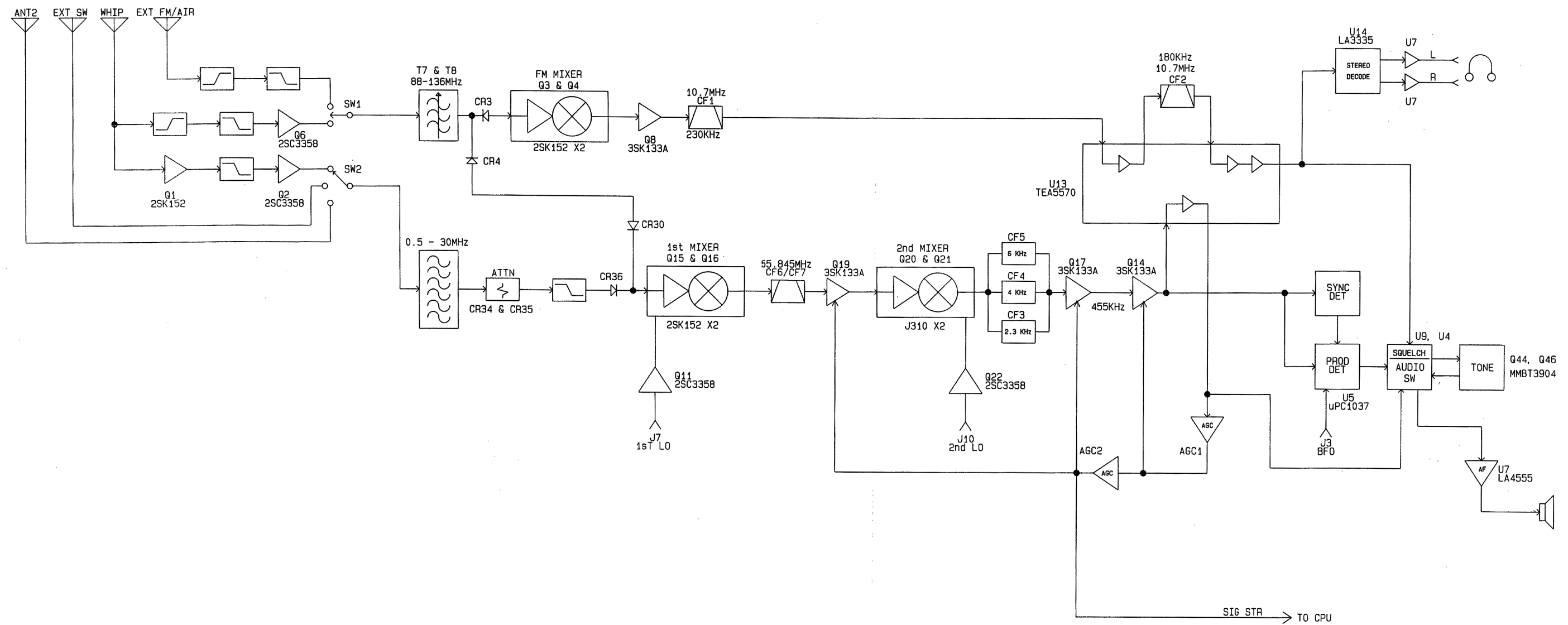


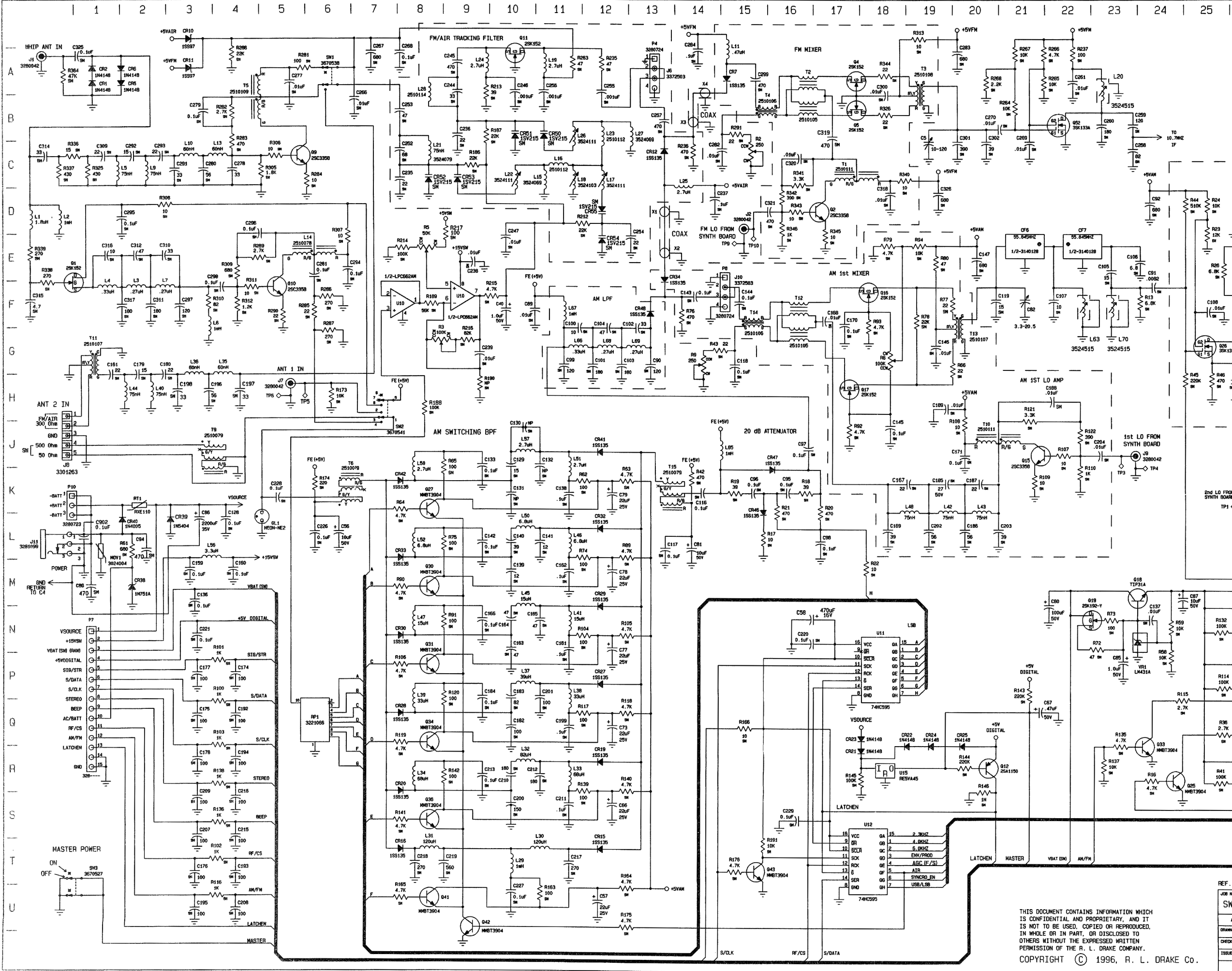
1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A0	NEW DRAWING	8-31-93	KEF

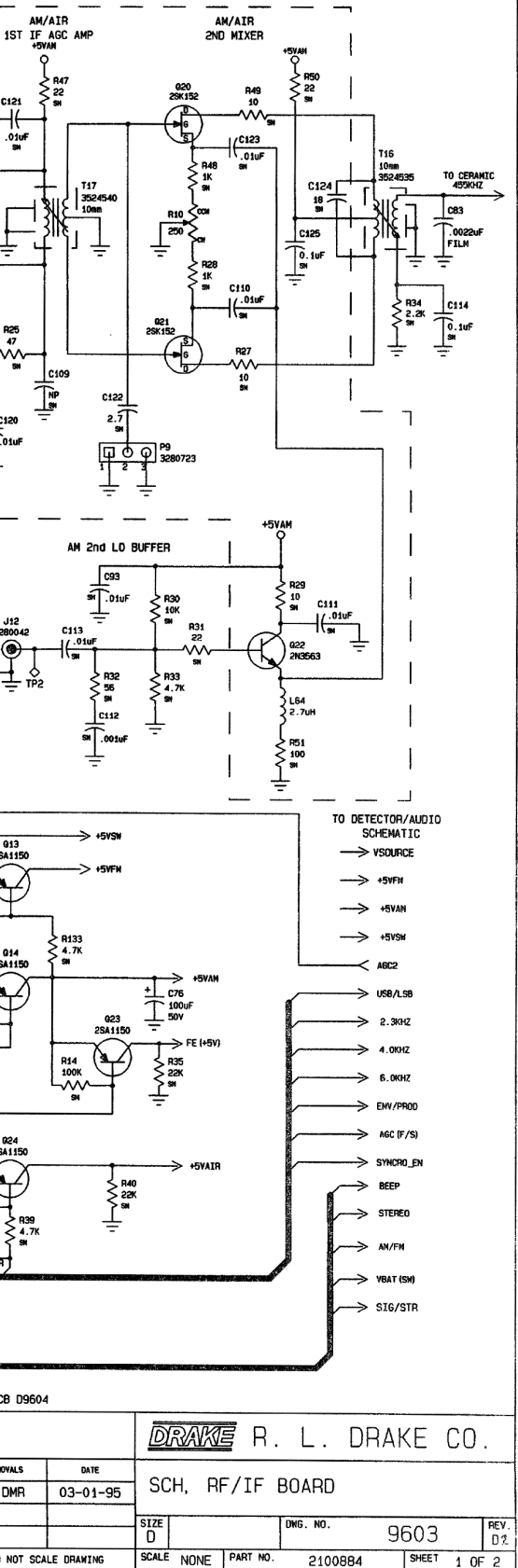


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JOB NO.	SWB	DRAKE R. L. DRAKE CO.		
APPROVALS	DATE	SWB BLOCK DIAGRAM		
DRAWN KEF	8-31-93	SIZE D	DWG. NO. 9126	REV. A0
CHECKED		SCALE NONE	POB REF. 000000	SHEET 1 OF 1

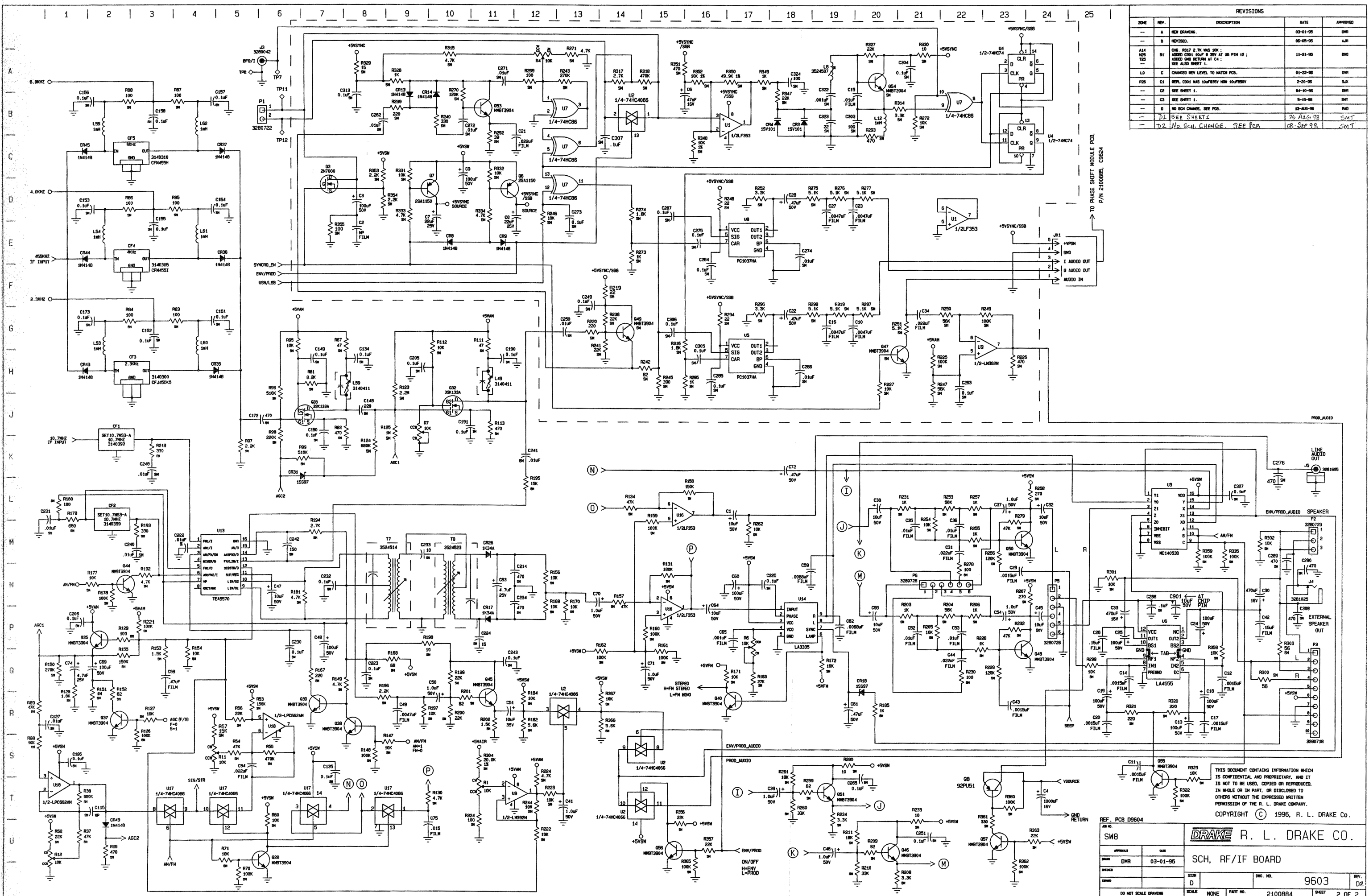


ZONE	REV.	DESCRIPTION	DATE	APPROVED	
--	A	NEW DRAWING	03-01-95	DMR	
--	B	REVISED	05-05-95	AMH	
M1	B1	ADDED 500 OHM RETURN; SEE ALSO SHEET 2.	11-21-95	BMO	
--	C	CHANGED REV LEVEL TO MATCH PCB.	01-22-96	DMR	
--	C1	SEE SHEET 2	2-20-96	SJK	
C4	C2	C278 WAS BND.	04-10-96	DMR	
B18	C3	ADD 0.01UF 50V CERAMIC (ACTUAL) AT DC INPUT JACK. ** TERMINAL AT PC BO. TO "-"	5-15-96	SMY	
D	D	NO SCH CHANGE, SEE PCB.	13-AUG-96	RNO	
B10-11	D1	REV 084-C350 & CR51 WERE 1T33 NOW 1SV215. CR52 & 53 WERE 1T33 NOW 1SV215. CR54 & 55 WERE 1T33 NOW 1SV215.	26 AUG 98	SMY	
D12 No. Sch. CHANGE. See Rev.				08 SEP 93	SMY



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REF. PCB D9504	DRAKE R. L. DRAKE CO.	
JOB NO. SWB	DATE 03-01-95	SCH. RF/IF BOARD
APPROVALS DMR	DATE	
CHECKED	ISSUED	
SIZE D	DWG. NO. 9603	REV. D2
ISSUED	SCALE NONE	PART NO. 2100884
DO NOT SCALE DRAWING		SHEET 1 OF 2



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	NEW DRAWING.	03-01-95	DMR
-	B	REVISED.	05-05-95	AJM
A14	B1	CHG. R317 2.7K RES. 10K; ADDED GND RETURN AT C4; SEE ALSO SHEET 1.	11-21-95	BND
L0	C	CHANGED REV LEVEL TO MATCH PCB.	01-22-96	DMR
P26	C1	REPL. C304 10K 100F50V NON 100F50V	2-20-96	SJK
-	C2	SEE SHEET 1.	04-10-96	DMR
-	C3	SEE SHEET 1.	5-15-96	SMT
-	D	NO SCH CHANGE. SEE PCB.	13-05-96	DMR
-	D1	SEE SHEET 1.	26 AUG 98	SMT
-	D2	NO SCH CHANGE. SEE PCB.	05-SEP 98	SMT

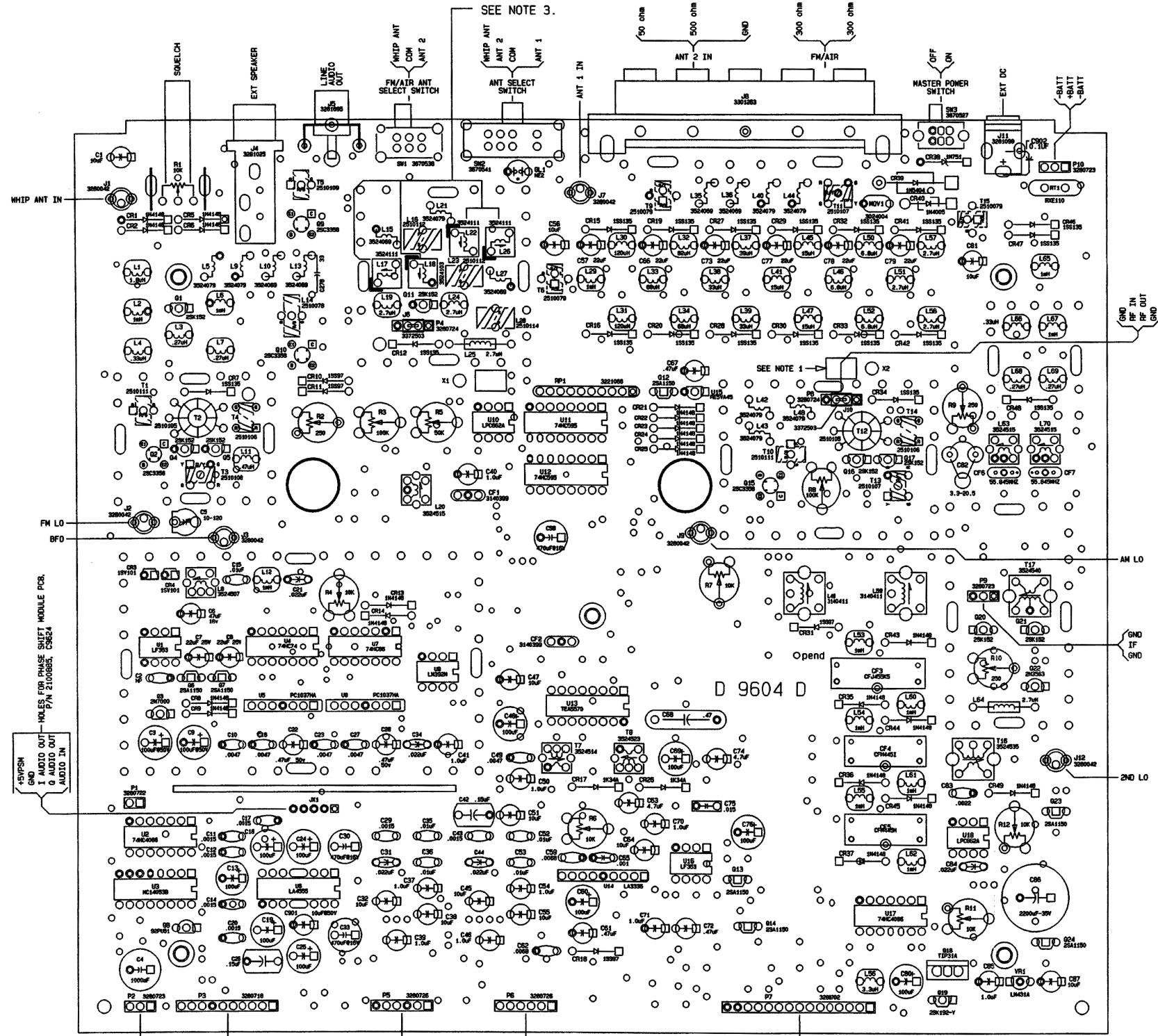
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REF. PCB D9604

APP'D	DATE	SCH, RF/IF BOARD	REV. D2
DMR	03-01-95		
SCALE	NONE	PART NO.	2100884
DO NOT SCALE DRAWING			SHEET 2 OF 2

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A	PROTOTYPE ONLY.	04-03-95	DMR
--	B	RELEASED TO PRODUCTION.	06-09-95	DMR
--	B1	SEE SHEET 1.	27 JUN 95	DMR
PB	B2	ADDED C901 10uF50V AT US PIN 12; SEE ALSO SHEETS 2 & 5.	21 NOV 95	BMD
--	C	MADE PROVISIONS TO INSTALL C901 ON BOARD.	01-24-96	DMR
PB	C1	REPL C901 WAS 10uF50V NOW 10uF63V	2-20-96	S.K
DB	C2	C278 WAS SMD. INSTALL LEADED PART AS SHOWN.	04-11-96	DMR
B1B	C3	EDM 062. ADDED 0.1uF 50V CAP. GERMIC (XITAL) AT DC INPUT JACK "+" TERMINAL AT PC BO. TO "-".	05-15-96	SMT
B9	D	SEE SHEET 1.	02 AUG 96	DMR
--	D1	SEE SHEET 5.	26 AUG 96	SMT
U4	D2	ADDED L17 INSTALLED ORIENTATION TO NOTE 3. ADDED L18 INSTALLED ORIENTATION TO NOTE 3. ADDED VISUAL AID TO COIL ORIENTATION AT L17, L18, L22, AND L26.	14 SEP 96	SMT
DB-11				

*SWITCH
GND
I AUDIO OUT
O AUDIO OUT
AUDIO IN

HOLES FOR PHASE SHIFT MODULE PCB.
P/N 210085, C924

ASSEMBLY NOTES:

- 1) INSTALL TYPE R6178 COAX CABLE (9710045) BETWEEN SOLDER PADS 'X1' AND 'X2'.
- 2) 5 HOLES UNDER JX1 (ZONE M6) ARE TO BE FREE OF SOLDER.
- 3) INSTALL L22 WITH SHORT SHOULDER AT UPPER LEFT POSITION AND INSTALL L17 WITH SHORT SHOULDER AT BOTTOM LEFT POSITION. INSTALL L18 WITH SHORT SHOULDER AT UPPER LEFT POSITION.

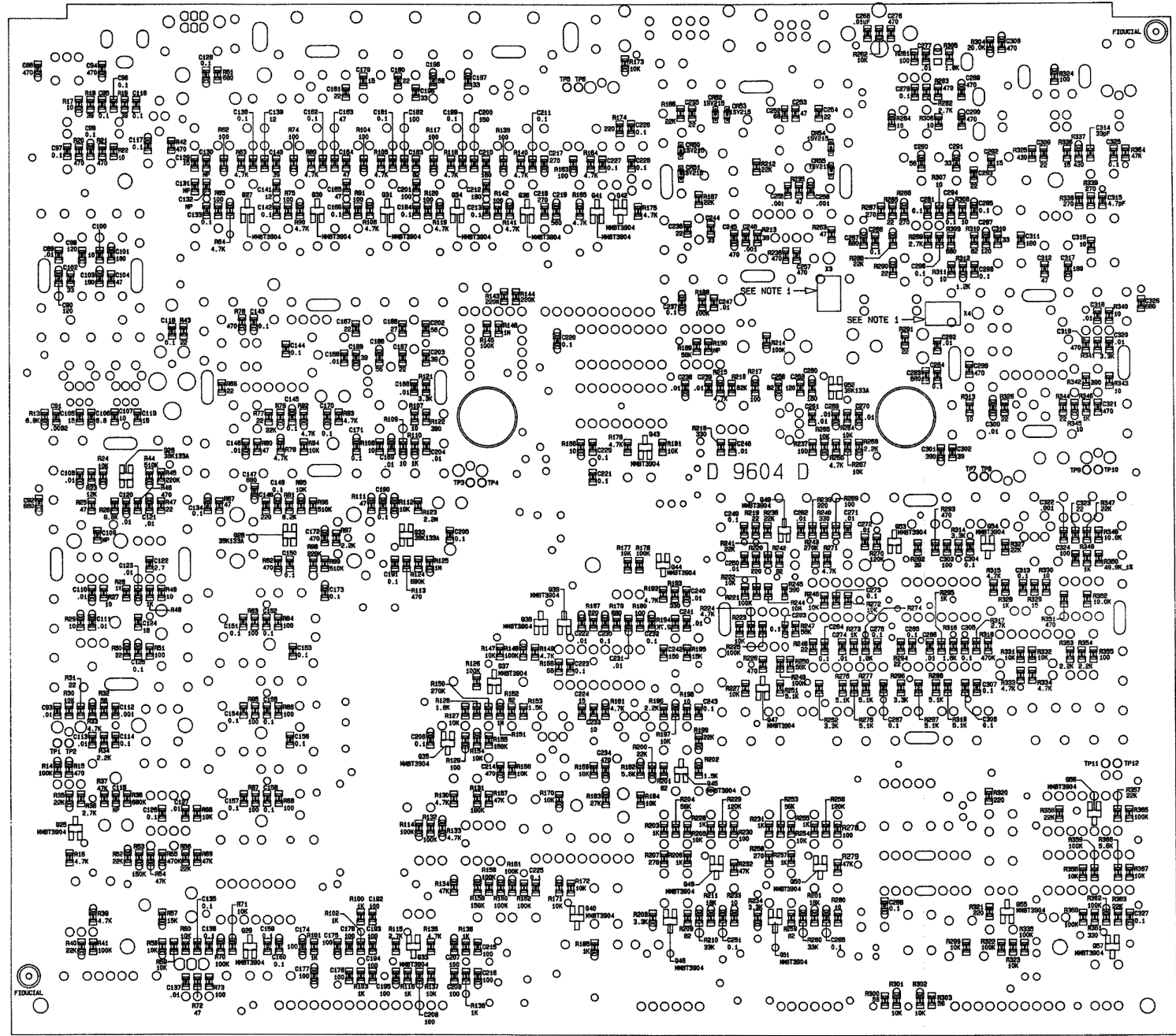
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ASSEMBLY PARTS, TOP SIDE VIEW.

REF. SCHEMATIC D9603		JOB NO. SW8		DRAKE R. L. DRAKE CO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		DATE 04-03-95			
MATERIAL	FINISH	APPROVALS	DATE	PCB, SW8 RF/IF	
		DMR	04-03-95	SIZE D	DWG. NO. 9604
DO NOT SCALE DRAWING		SCALE 1.5:1		PART NO. 2100884	REV. D2
				SHEET 4 OF 6	

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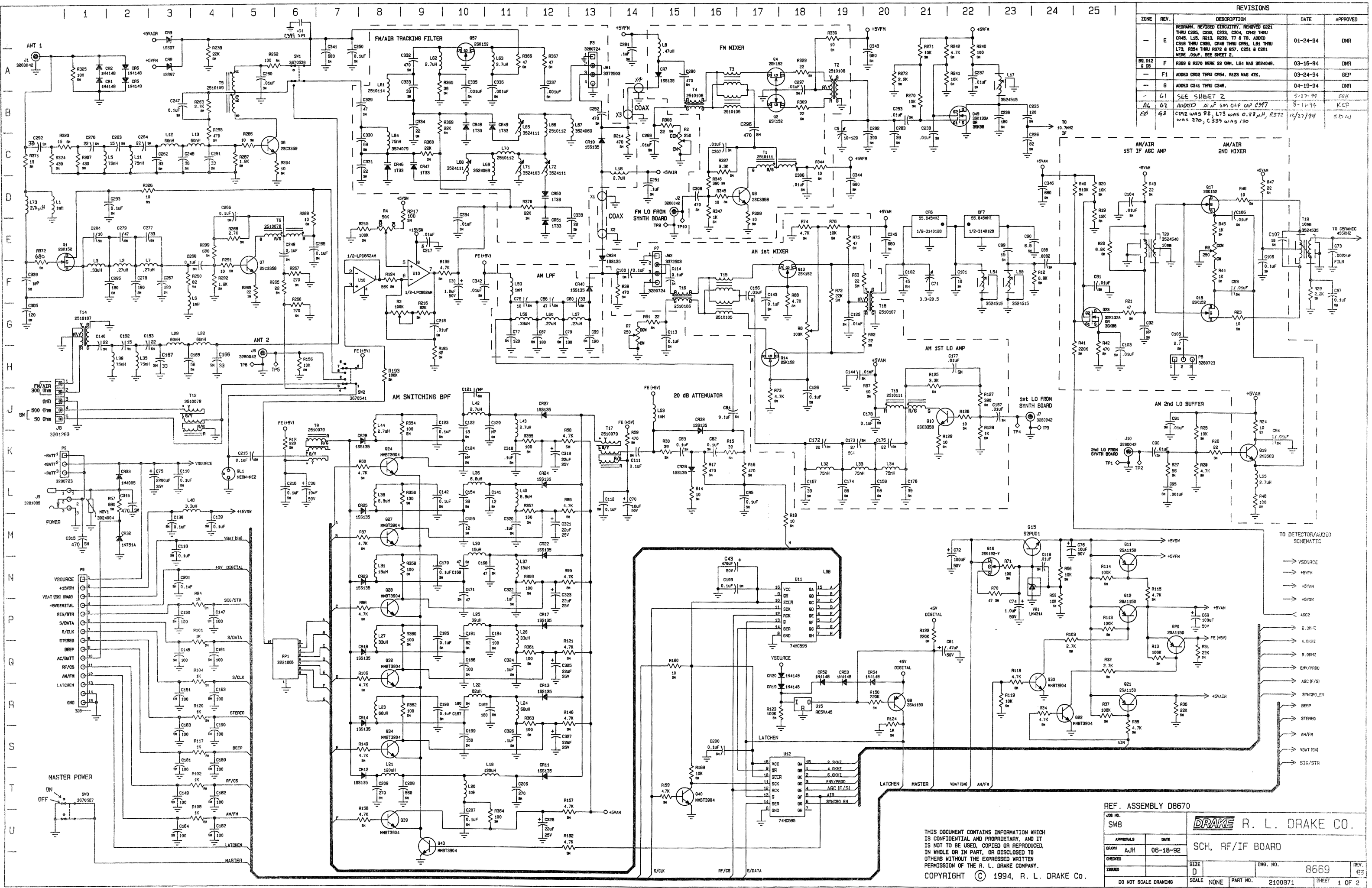
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A	PROTOTYPE ONLY.	04-03-95	DMR
--	B	RELEASED TO PRODUCTION.	06-09-95	DMR
--	B1	SEE SHEET 1.	27 JUN 95	DMR
K17	B2	CHG. R317 2.7K WAS 10K ; SEE ALSO SHEETS 2 & 4.	21 NOV 95	DMR
--	C	SEE SHEET 4.	01-24-96	DMR
--	C1	SEE SHEET 4	2-20-96	SKJ
C17	C2	C278 WAS SMD, SEE SHEET 4.	04-11-96	DMR
--	C3	SEE SHEET 4.	05-15-96	SMT
B8	D	SEE SHEET 1.	02 AUG 96	DMR
D11	D1	EDN 084--CR50 & CR51 WERE 1T33 NOW 15V215 CR52 & CR53 WERE 1T33 NOW 15V215. CR54 & CR55 WERE 1T33 NOW 15V215.	28 AUG 96	SMT
--	D2	SEE SHEET 4	08 SEP 98	SMT

NOTES:
1) INSTALL TYPE RG178 COAX CABLE (3710045) BETWEEN SOLDER PADS 'X3' AND 'X4'.

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REF. SCHEMATIC D9603		JOB NO. SW8			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		APPROVALS			
MATERIAL		DATE		PCB, SW8 RF/IF	
FINISH		DRAWN DMR 04-03-95			
DO NOT SCALE DRAWING		CHECKED		SIZE D	DWG. NO. 9604
		ISSUED		SCALE 1.5:1	PART NO. 2100884
				SHEET 5 OF 6	



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	E	REDRAWN, REVISED CIRCUITRY, RENOVED C221 THRU C225, C282, C283, C304, CR48 THRU CR49, L15, R215, R228, T7 & T8, ADDED C318 THRU C320, CR46 THRU CR48, L8A THRU L7A, R254 THRU R272 & R273, C251 & C281 WERE .01UF. SEE SHEET 2.	01-24-94	DMR
B8, D12 & D3	F	R359 & R370 WERE 22 OHM, L64 WAS 3524045.	03-16-94	DMR
-	F1	ADDED CR52 THRU CR54, R123 WAS 47K.	03-24-94	GEP
-	G	ADDED C341 THRU C346.	04-19-94	DMR
-	G1	SEE SHEET 2	5-27-94	JAK
A6	G2	ADDED .01UF 50V CHIP CAP C347	8-11-94	KCP
E6	G3	C292 WAS 92, L73 WAS 0.33UH, R372 WAS 270, C339 WAS 100	12/27/94	SDW

REF. ASSEMBLY D8670

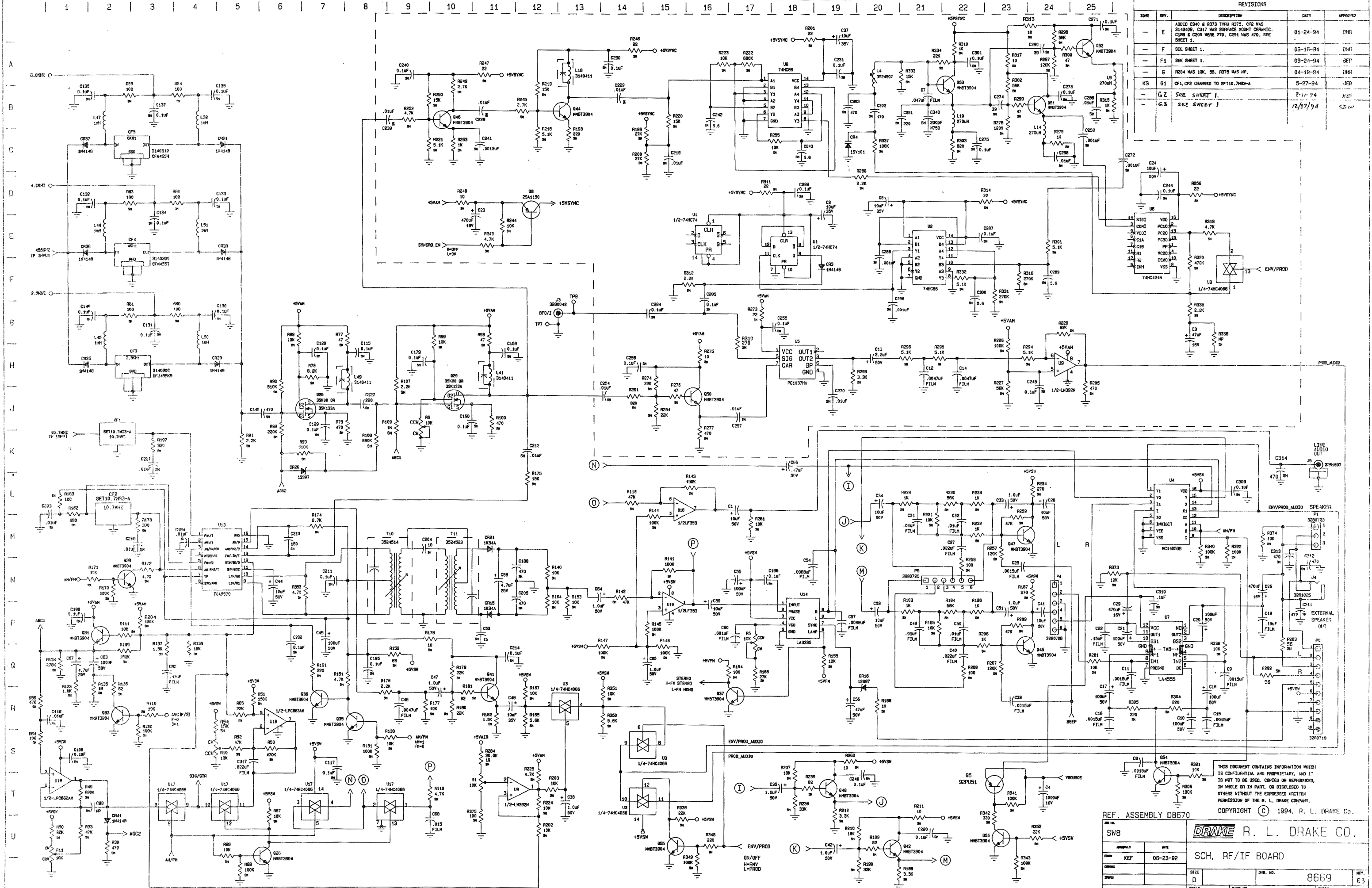
JOB NO. SWB		DATE 06-18-92	
DRAWN AJH		SCH. RF/IF BOARD	
ISSUED	DATE	DWG. NO. 8669	REV. 03
DO NOT SCALE DRAWING		SCALE NONE	PART NO. 2100871

DRAKE R. L. DRAKE CO.

SHEET 1 OF 2

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
E		ADDED C340 & R373 THRU R375. QF2 WAS 31484049. C347 WAS SURFACE MOUNT CERAMIC. C188 & C200 WERE 270. C291 WAS 470. SEE SHEET 1.	01-24-94	DHR
F		SEE SHEET 1.	03-16-94	DHR
F1		SEE SHEET 1.	03-24-94	SEP
G		R284 WAS 10K. Q5, R375 WAS NP.	04-19-94	DHR
K3	G1	QF1, QF2 CHANGED TO SF110.7MS3-A	5-27-94	JEB
GZ		SEE SHEET 1.	2-11-99	KEF
G3		SEE SHEET 1	12/27/94	SZB

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REF. ASSEMBLY D8670

SWB

DATE: 05-23-92

SCH. RF/IF BOARD

SIZE: D

DWG. NO.: 8669

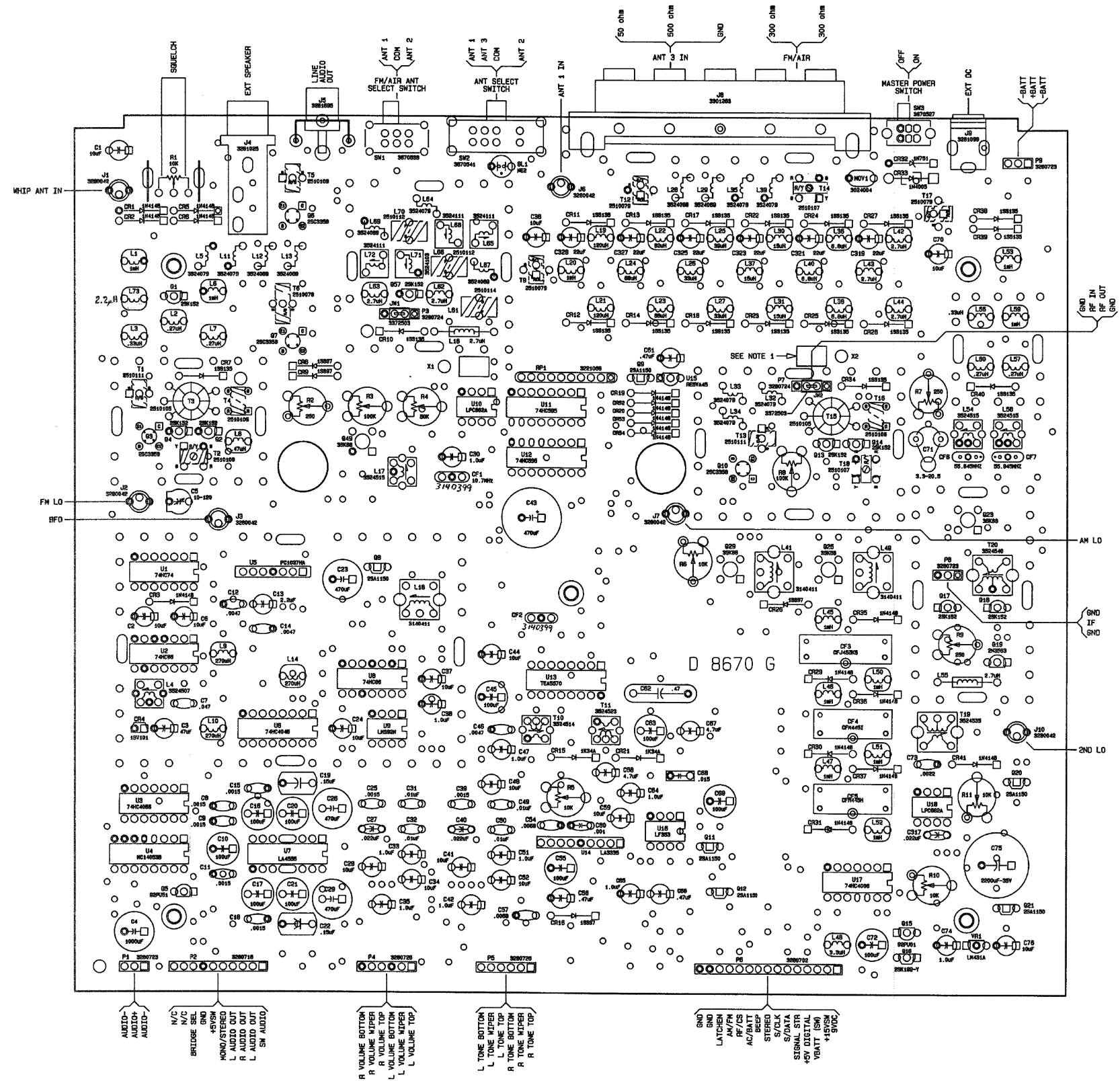
REV.: G3

SCALE: NONE

PART NO.: 2100871

SHEET: 2 OF 2

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	E	REDRAWN, REMOVED L15, T7 & T8. ADDED C215, C221, C222, C226, C227, C228, L61 THRU L73 & Q27, Q317 WAS SN CERAMIC. Q22 WAS 3140409.	02-03-94	DMR
C10	F	L64 WAS 3324049.	03-17-94	DMR
F13	F1	ADDED CR52 THRU CR54. SEE SHEET 5.	03-24-94	SEP
-	G	SEE SHEET 5.	04-25-94	DMR
H10	G1	C21, C22 3140399 were 3140409/3140417	5-27-94	JEB
-	G2	SEE SHEET 1.	7-26-94	KCF
-	G3	SEE SHEET 2 & 3.	8-11-94	KCF
-	G4	SEE SHEET 3.	10-07-94	BAO
E5	G5	L73 WAS 0.33µH	12/27/94	SDW
C16	G6	Corrected Pictorial of Toroid Installation T14, T18	6/1/95	NKL

NOTES:

- 1) INSTALL TYPE RS178 COAX CABLE (3710045) BETWEEN SOLDER PADS 'X1' AND 'X2'.
- 2) TRANSISTORS Q23, Q25, Q28 & Q49 ARE TO BE TYPE 2SK98 (9030502) UNTIL CURRENT STOCK IS DEPLETED. TYPE 2SK133A (9030667) IS TO BE SUBSTITUTED WHEN 2SK98 IS NO LONGER AVAILABLE. NEVER INSTALL BOTH DEVICES.

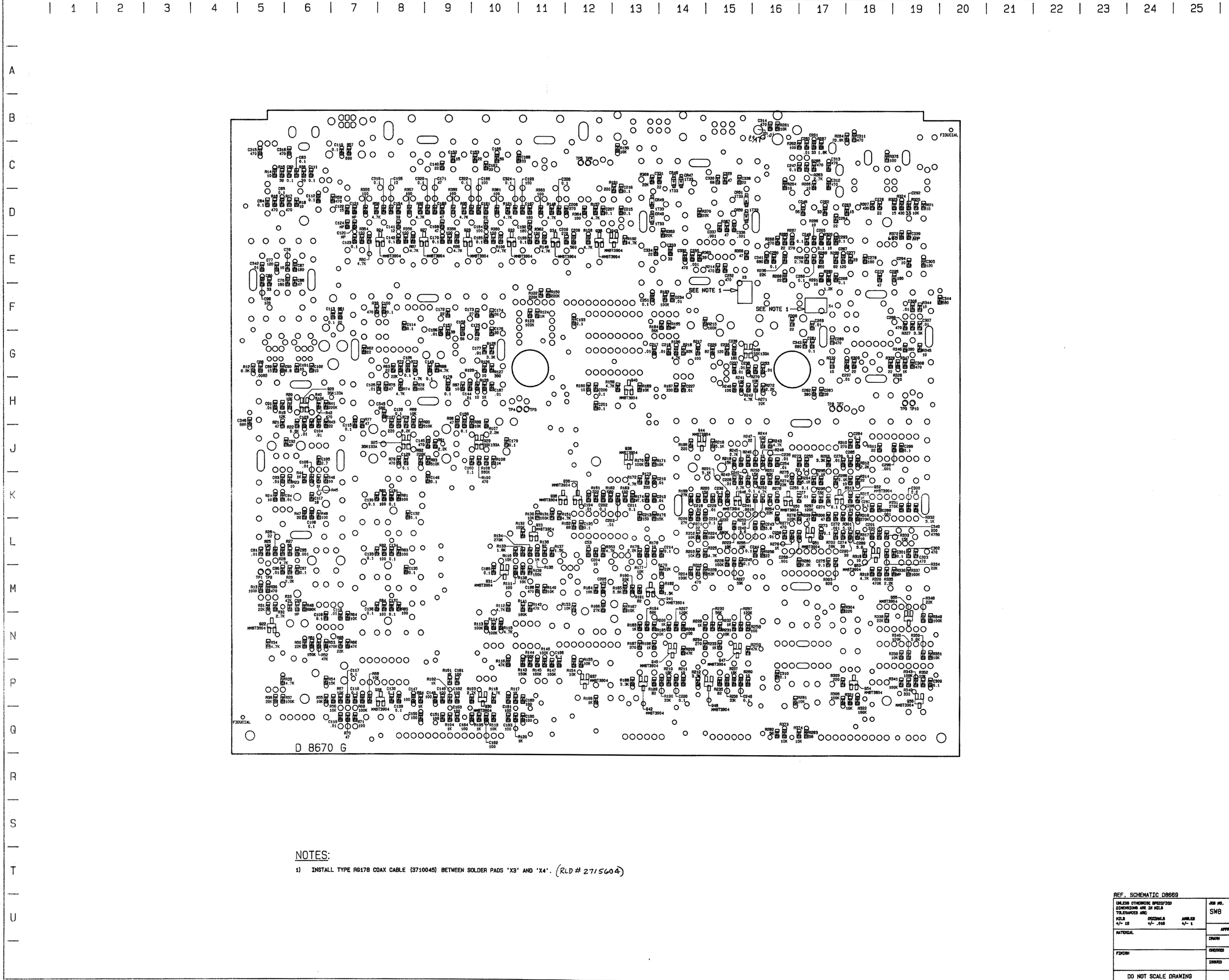
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REF. SCHEMATIC 08669		JOB NO. SWB	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE ±.015		DRAWN DMR 11-30-92	
MATERIAL		CHECKED	
FORM		DRAWN	
DO NOT SCALE DRAWING		SCALE 1.5:1 PART NO. 2100871 SHEET 4 OF 8	

DRAKE R. L. DRAKE CO.

PCB, SWB RF/IF

DNG. NO. 8670 REV. G5



NOTES:

- 1) INSTALL TYPE R6178 COAX CABLE (3710045) BETWEEN SOLDER PADS 'X3' AND 'X4'. (RLD# 2715604)

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	E	REDRAWN, REMOVED C221 THRU C225, C232, C233, C304, C342 THRU C345, R213 & R239. ADDED C316, C350, C352, C354, C355, C329 THRU C340, C346 THRU C351 & R354 THRU R375. C188 & C205 WERE 270. C291 WAS 470.	02-03-94	DMR
D14	F	R369 & R370 WERE 22 OHM.	03-17-94	DMR
	F1	R129 WAS 47K. SEE SHEET 4.	03-24-94	REP
VAR	6	R284 WAS 10K. SE. R375 WAS NP. ADDED C341 THRU C345.	04-25-94	DMR
	G1	SEE SHEET 4.	5-27-94	J.E.B.
	G2	SEE SHEET 1.	7-26-94	K.E.P.
OH6	G3	ADD 0.01M CAP TO AND FROM SW101	8-17-94	KEP
	G4	SEE SHEET 8.	10-07-94	B.A.O.
D19	G5	C292 WAS 82pF, R372 WAS 270 OHM, C339 WAS 180pF	12/27/94	SDW

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REF. SCHEMATIC D8669 ASSEMBLY SURFACE MOUNT PARTS, BOTTOM SIDE VIEW.

JOB NO. SW8	DATE 11-30-92	DRAKE R. L. DRAKE CO.		
		PCB, SW8 RF/IF		
APPROVALS	DATE	SIZE D	DWG. NO. 8670	REV. G5
DRAWN DMR	11-30-92	SCALE 4:1	PART NO. 2100871	SHEET 5 OF 8
DO NOT SCALE DRAWING				

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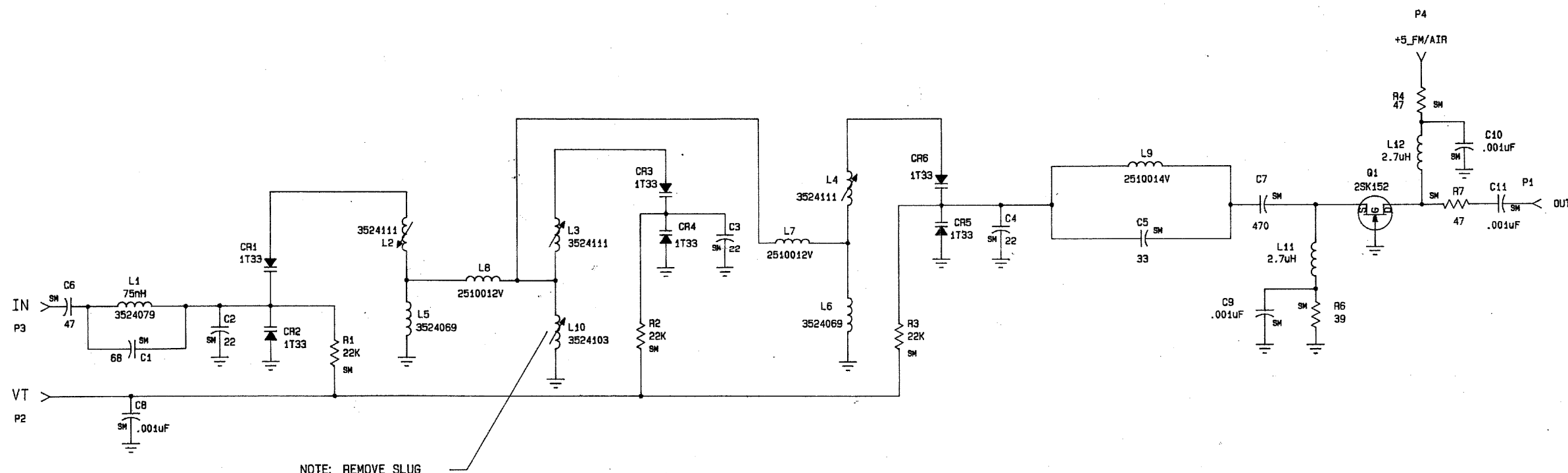
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	NEW DRAWING	10-18-93	MAM
-	B	CHG C6 47pf WAS 470pf CHG L8 2510012 WAS 2510083 CHG L7 2510012 WAS 2510083 CHG L9 2510014 WAS 2510083 ADDED C9, C10, C11, R4, R6, R7, Q1, L11 AND L12.	11-11-93	MAM



NOTE: REMOVE SLUG

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JOB NO. SWB		DRAKE R. L. DRAKE CO.		
APPROVALS	DATE	SCH, TRACKING FILTER		
DRAWN MAM	10-18-93	SIZE C	DWG. NO. 9153	REV. B
CHECKED		SCALE NONE	PCB REF. 2100873	SHEET 1 OF 1
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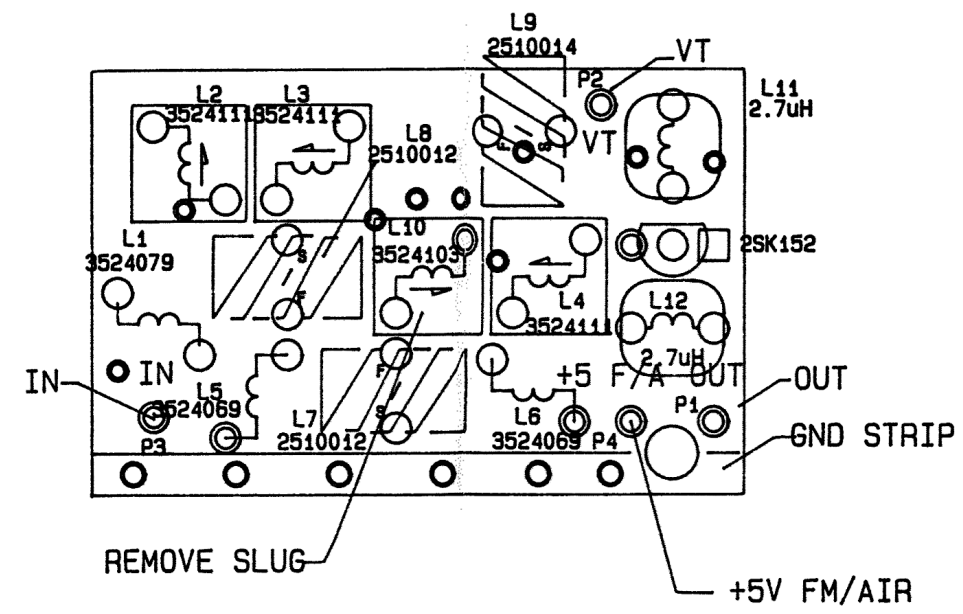
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	NEW	10-18-93	MAM
-	B	CHANGED FOOTPRINT OF TOROID L7, L8 AND L9 ADDED C9, C10, C11, R4, R6, R7, Q1, L11 AND L12.	11-17-93	MAM



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SCHEMATIC REF. C9153

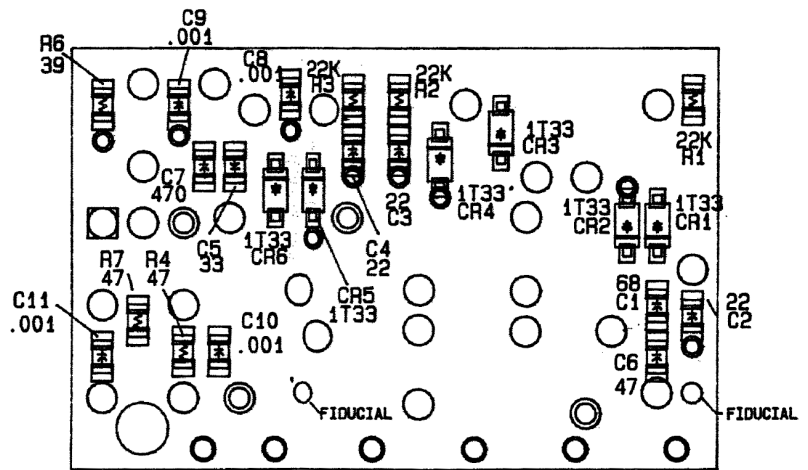
ASSEMBLY PARTS, TOP SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE: MILS DECIMALS ANGLES +/- .15 +/- .015 +/- 1	JOB NO. SWB		DRAKE R. L. DRAKE CO.	
	APPROVALS	DATE	PCB, TRACKING FILTER	
	DRAWN MAM	10-18-93		
	CHECKED			
FINISH	ISSUED	SIZE B	DWG. NO. 9152	REV. B
DO NOT SCALE DRAWING		SCALE 2:1	PART NO. 2100845	SHEET 4 OF 5

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	NEW	10-18-93	MAM
-	B	CHANGED FOOTPRINT OF TOROID L7, L8 AND L9 ADDED C9, C10, C11, R4, R6, R7, Q1, L11 AND L12.	11-17-93	MAM



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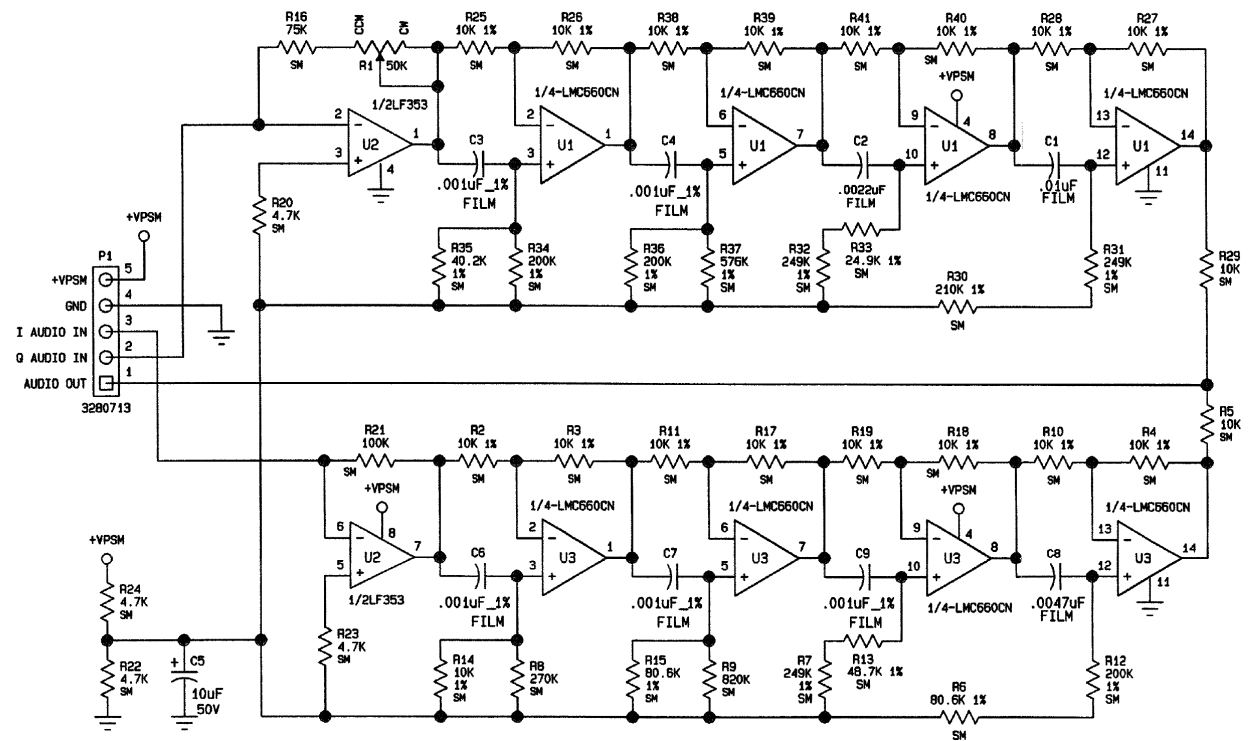
SCHMATIC REF. C9153 SMT ASSEMBLY PARTS, BOTTOM SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE: MILS +/- 15 DECIMALS +/- .015 ANGLES +/- 1	JOB NO. SW8		DRAKE R. L. DRAKE CO.		
	MATERIAL	APPROVALS DRAWN MAM	DATE 10-18-93	PCB, TRACKING FILTER	
FINISH pend	CHECKED	ISSUED	SIZE B	DWG. NO. 9152	REV. B
DO NOT SCALE DRAWING			SCALE 2:1	PART NO. 2100945	SHEET 5 OF 5

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
--	A	NEW DRAWING	03-20-95	DMR
--	A1	PROTOTYPE ONLY.	05-10-95	DMR
--	B	RELEASED TO PRODUCTION.	06-07-95	DMR
--	C	CHG POT R1 TO VERTICAL TYPE.	02-19-96	DMR
--	C1	C3-C4-C6-C7-C9 WERE 5% 1000pF NOM 2% 1000pF.	07-02-96	SMT
D6, H6	C2	U1 & U2 CHANGED TO LMC660CN NE5514 NOW OBSOLETE	04-12-00	EES



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PCB REF C9625		USED ON SWB, RBA		DRAKE R. L. DRAKE CO.	
APPROVALS	DATE	SCH, PHASE SHIFT MODULE			
DRAWN	DMR	03-20-95	SIZE C		DWG. NO. 9624
CHECKED			REV. C2		
ISSUED			DO NOT SCALE DRAWING		SCALE NONE PART NO. 2100885 SHEET 1 OF 1

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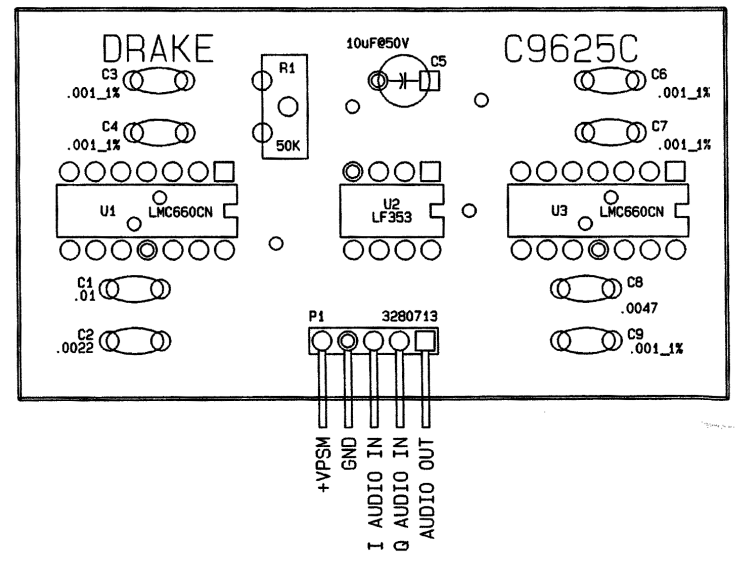
L

M

N

P

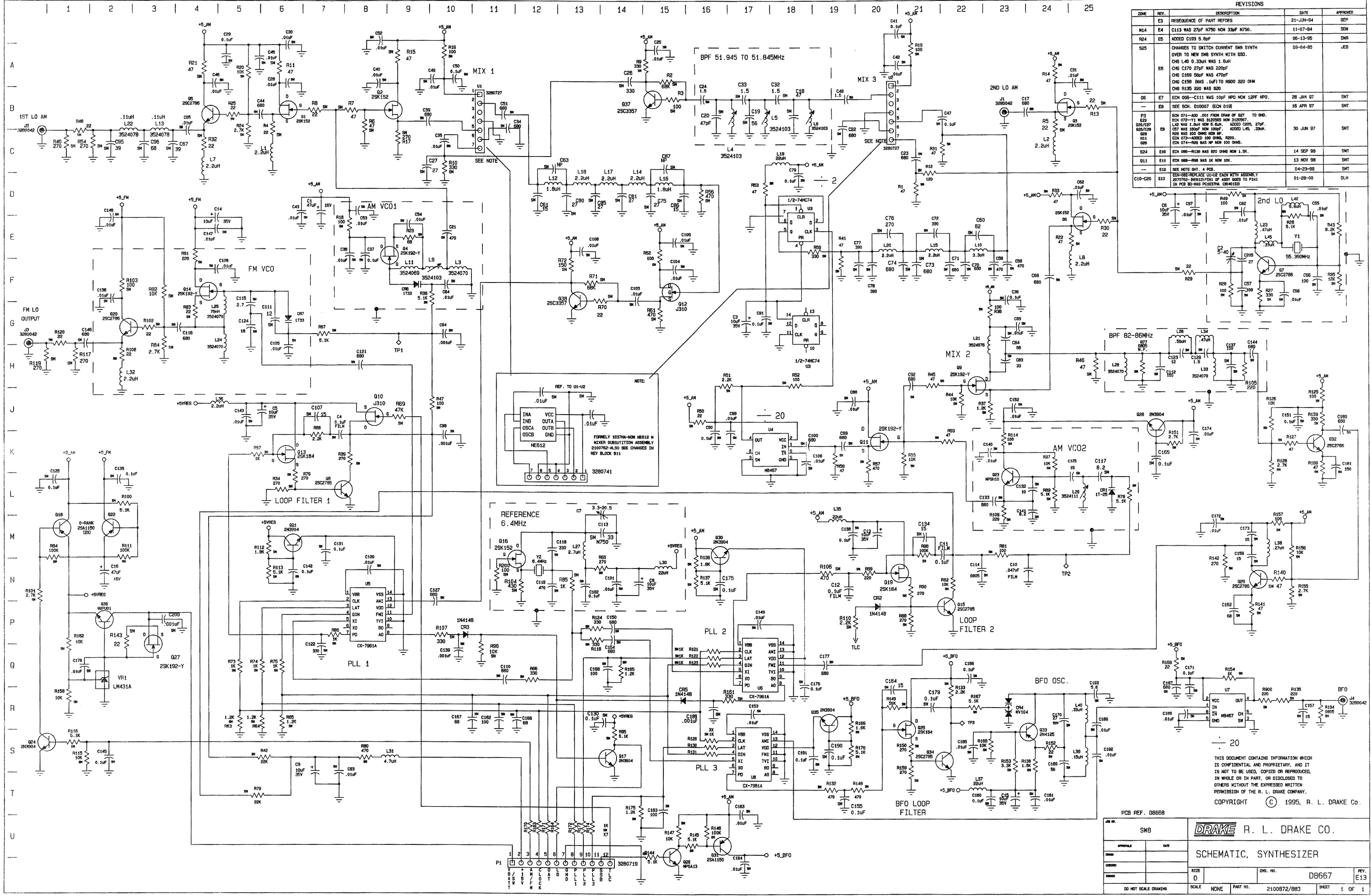
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A	PROTOTYPE ONLY.	03-21-95	DMR
--	A1	PROTOTYPE ONLY.	05-10-95	DMR
--	B	RELEASED TO PRODUCTION.	06-07-95	DMR
E7, E8	C	RELOCATED R1 & C5. CHG R1 TO VERTICAL STYLE.	02-19-96	DMR
--	C1	C3-C4-C6-C7-C9 WERE 1000PF 5% NOW 1000PF 2%.	07-02-96	SMT
F5, F9	C2	U1 & U3 NOW LMC660CN NE5514 NOW OBSOLETE	04-12-00	EES



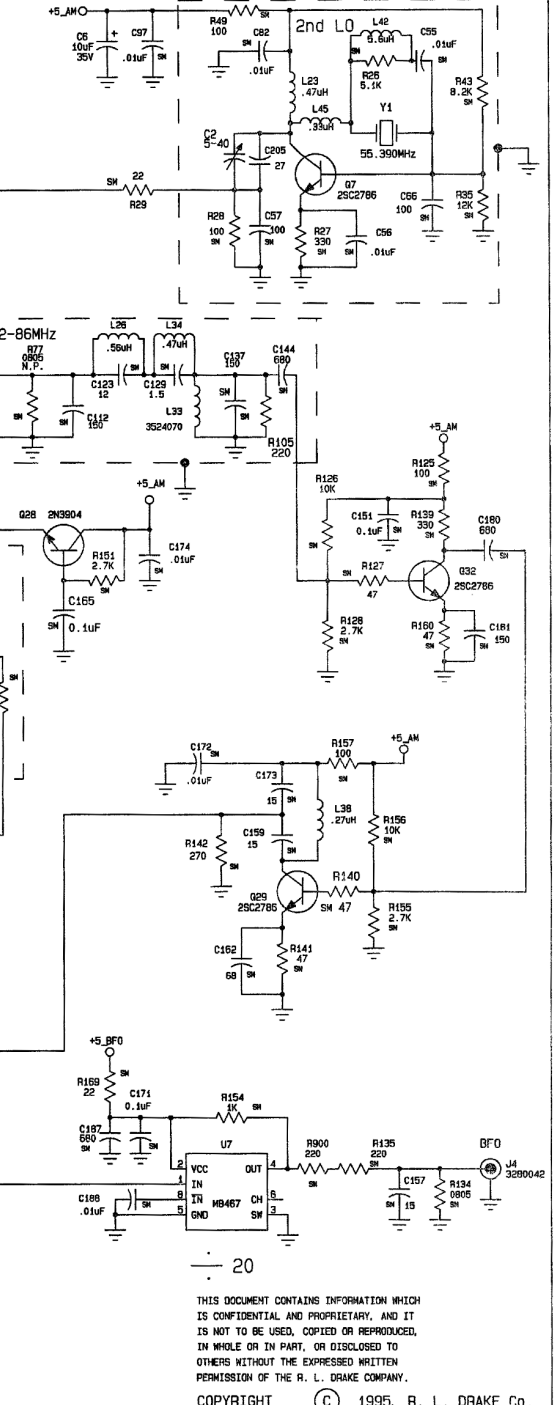
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SEE DRAWING D9655 FOR MULTIPLE LAYOUT INFORMATION.
 ASSEMBLY PARTS, TOP SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE: MILS DECIMALS ANGLES +/- .5 +/- .005 +/- .1		USED ON SW8, R8A		R. L. DRAKE CO.	
MATERIAL		APPROVALS	DATE	PCB, PHASE SHIFT MODULE	
FINISH		DRAWN DMR	03-20-95	SIZE C	DWG. NO. 9625
DO NOT SCALE DRAWING		CHECKED	ISSUED	SCALE 2:1	PART NO. 2100885
				REV. C2	SHEET 4 OF 5



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
E3	E3	RESEQUENCE OF PART REFDES	21-JUN-94	DEP
M14	E4	C119 WAS 27PF N750 NOW 33PF N750.	11-07-94	SDM
R24	E5	ADDED C193 5.6PF	06-13-95	DNA
S25	E6	CHANGES TO SWITCH CURRENT SMB SYNTH OVER TO NEW SMB SYNTH WITH SSD. CHG L40 0.33UH WAS 1.6UH CHG C170 27PF WAS 220PF CHG C169 500F WAS 470F CHG C158 (MAG. 1uF) TO R200 220 OHM CHG R135 220 MAS 820	09-04-95	JEB
G6	E7	ECH 066-C111 WAS 100PF NPO NOW 120PF NPO.	28 JAN 97	SMT
E8	E8	SEE SCH. D10007 (ECH 019)	16 APR 97	SMT
P3	E9	ECH 071-ADD .001 FROM DRAW OF G27 TO END. ECH 072-Y1 WAS 3120000 NOW 3120007 L42 WAS 1.6UH NOW 5.6UH. ADDED C205 27PF. C27 WAS 150PF NOW 100PF. ADDED L45 .33UH. R28 WAS 100 OHMS NOW 1PF. ECH 074-ADDED 100 OHMS, R200. ECH 074-R28 WAS NP NOW 100 OHMS.	30 JUN 97	SMT
S24	E10	ECH 086-R138 WAS 820 OHMS NOW 1.5K.	14 SEP 98	SMT
Q11	E11	ECH 086-R96 WAS 1K NOW 10K.	13 NOV 98	SMT
E12	E12	SEE NOTE SHIT. 4 PCB.	04-23-99	SMT
C10-C20	E13	ECH-086-REPLACE U1-U2 EACH WITH ASSEMBLY 2070782-NE812 PIN1 OF ASSY GOES TO PIN1 IN PCB ID-MAS PC2037A. (04-05-99)	01-28-00	DLH



PCB REF. D8668		DRAKE R. L. DRAKE CO.	
SWB		SCHEMATIC, SYNTHESIZER	
SIZE	D	ENG. NO.	D8667
REV.	D	REV.	E13
DO NOT SCALE DRAWING		SCALE	NONE
PART NO.		2100872/893	
SHEET		1 OF 1	

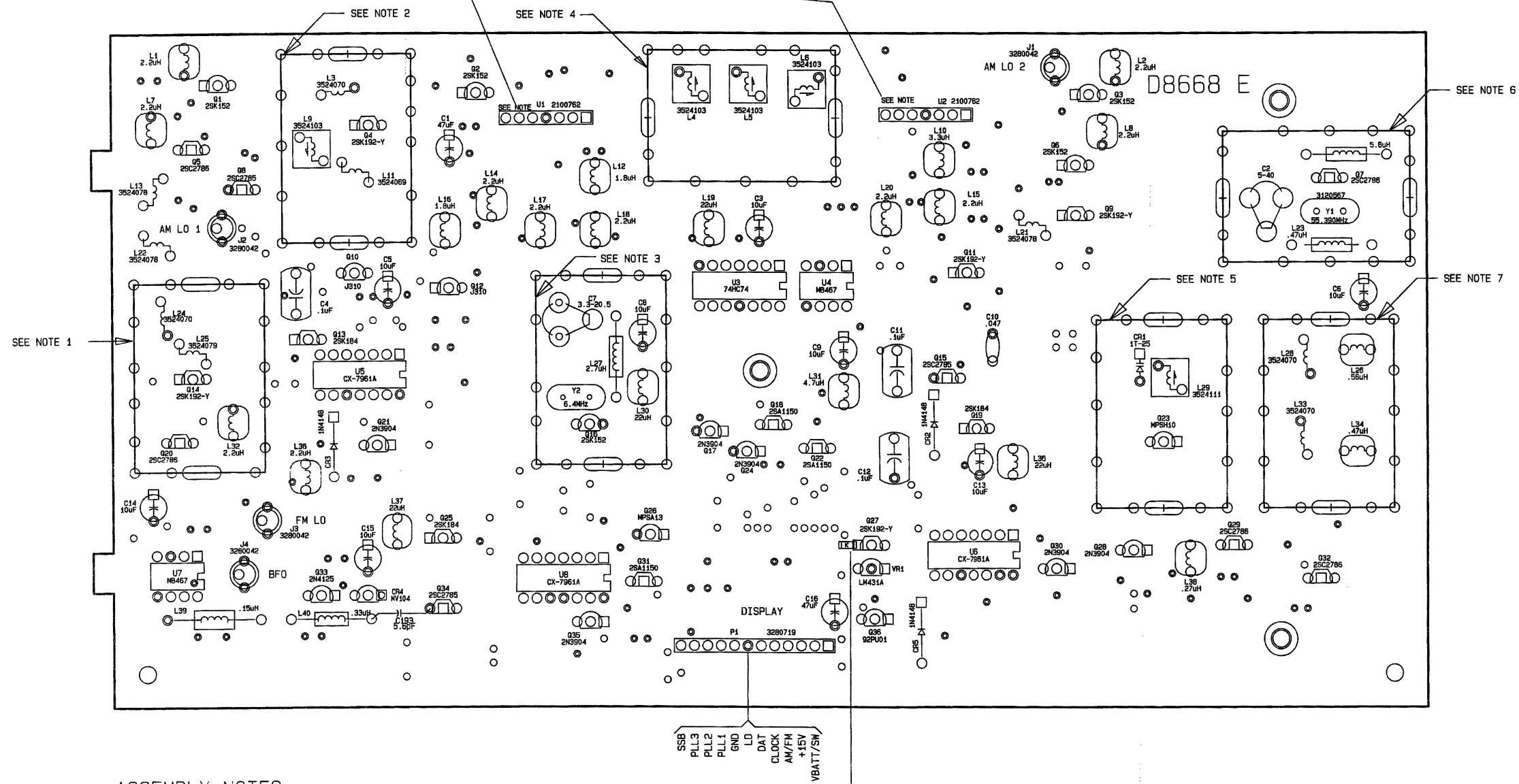
NOTE:

1. PRE APRIL 2000 U6,U7 WAS PC1037HA-3040133 INSTALLED FROM APRIL 2000 AND BEYOND-CIRCUIT BD. MODULE INSTALLED, USING ANY NE612 (2070762) SUBSTITUTION PIN1 OF ASSEMBLY GOES IN PIN1 HOLE OF PCB BD.

2. C159 MAY NEED TO BE PUSHED OVER OR MOVED TO BOTTOM TO CLEAR MIXED SUBSTITUTION ASSEMBLY

NOTE:

POSITION L4, L5, AND L6 SO THAT SHORT "KNEE" IS TOWARD CENTER OF BOARD AS SHOWN.



ASSEMBLY NOTES

1. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
2. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
3. INSTALL SHIELD BOTTOM SIDE 4561561, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
4. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
5. INSTALL SHIELD BOTTOM SIDE 4561561, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
6. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
7. NO SHIELDS AT THIS LOCATION, BOTTOM OR TOP.

ADD 100pF CHIP FROM DRAW OF Q27 TO GND.

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	08-18-92	JFB
--	A1	PROTOTYPE ONLY.	01-15-93	DMR
--	B	PROTOTYPE	06-04-93	JB
--	C	PROTOTYPE	07-21-94	NM
--	D	PROTOTYPE	09-25-93	NM
--	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	01-28-94	NM
D13	E1	CHG L60 3524103 WAS 3524069 CHG L77, L78 1.0uH WERE 1.2uH CHG L79 2.2 uH WAS 2.7uH SEE SMT 5 ADD CAN AROUND L60 CHG SHIELD BOTTOM SIDE IN NOTE 1 WAS 4561560	03-23-94	CHP
E21	E2	DEL L39 1.6 uH C148 5-40 WAS 3.3-20 SEE SMT 5	5-28-94	JEB
--	E3	RESEQUENCE OF REFDES	06-22-94	DEP
--	E4	SEE SHEET 5	11-07-95	SDW
N7	E5	ADDED C193 5.6pF	06-14-95	DMR
M6	E6	CHANGES TO SWITCH CURRENT SWR SYNTH OVER TO NEW SWR SYNTH M/SSD. CHG L40 0.3uH WAS 1.0uH Y1 WAS 3120565 NOW 3120967. ALSO SEE SHEETS 3 AND 5 FOR MORE ASSY. INFO.	09-04-95/ 04-18-96	JEB/DMR
--	E7	SEE SHEET 5.	01-28-97	SMT
--	E8	SEE SHEET 6.	04-16-97	SMT
L14	E9	EDN 071-ADDED 100pF FROM DRAW OF Q27 TO GND.	06-30-97	SMT
E22	F22	EDN 072-L42 WAS 1.0uH NOW 5.6uH. Y1 WAS 3120565 NOW 3120967. ALSO SEE SHEETS 3 AND 5 FOR MORE ASSY. INFO.	06-30-97	SMT
--	E10	SEE SHEETS 5 & 7.	09-14-98	SMT
--	E11	SEE SHEET 5.	11-13-98	SMT
D11-13	E12	ADDED SPECIFICATION FOR PROPER ORIENTA- TION OF L4, L5, AND L6.	04-23-99	SMT
08-24	E13	EDN 082-REPLACE U4-U5 EACH WITH ASSEMBLY 2070762 (NE612) WAS 1037HA (3040133)	01-28-00	DLH

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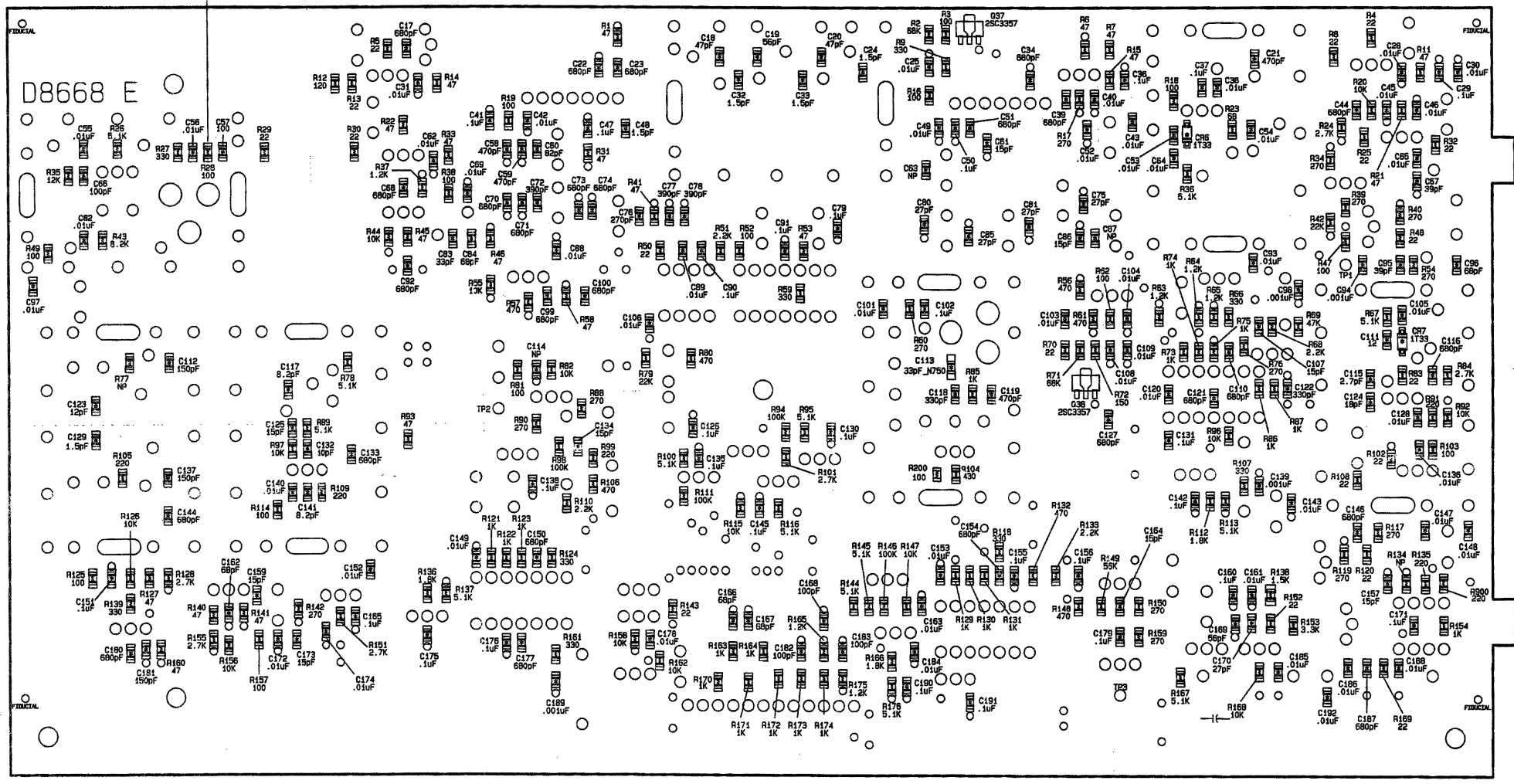
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SCHEMATIC REF. D8667 ASSEMBLY PARTS, TOP SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:	INCH	DECIMALS	MILS
	1/16"	±.005	±.125
MATERIAL	APPROVALS	DATE	DRAKE R. L. DRAKE CO.
	DESIGN DMR	01-15-93	
FINISH	CHECKED		PCB, SYNTHESIZER
	DRAWN		
DO NOT SCALE DRAWING	SIZE	D	REV. E13
	DWG. NO.	8668	
SCALE 2:1		PART NO. 2100872/883	SHEET 4 OF 7

A
B
C
D
E
F
G
H
J
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L
M
N
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Q
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SEE NOTE 1



- NOTES:
1. REMOVE R28 DURING TEST AS NEEDED.

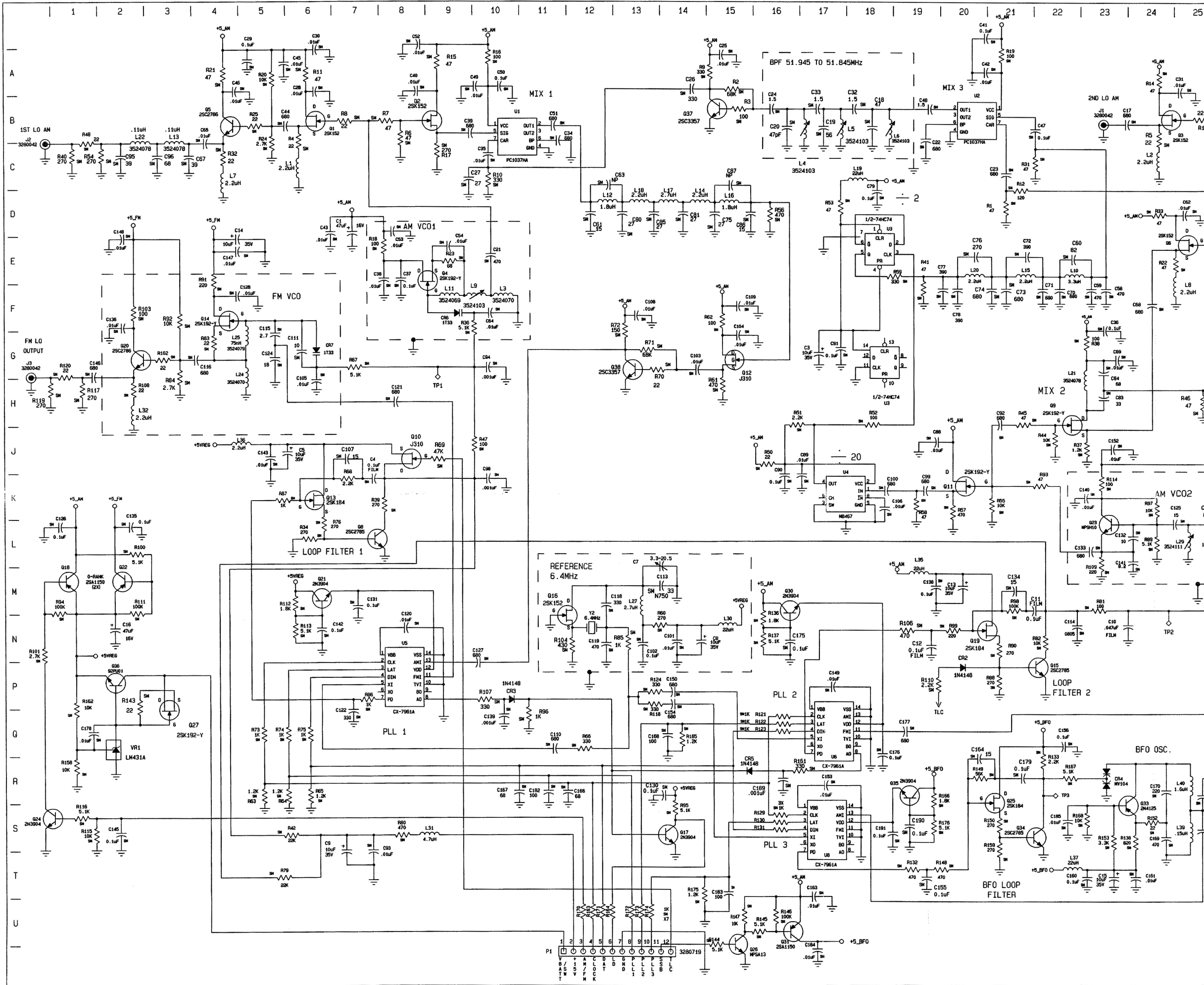
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	06-19-92	JFG
--	A1	PROTOTYPE ONLY.	01-15-93	DMR
--	B	PROTOTYPE	06-04-93	JS
--	C	PROTOTYPE	07-21-94	NM
--	D	PROTOTYPE	08-25-93	NM
--	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	01-28-94	NM
F14 F17 F18 F19 F20	E1	CHG C240 47 MAS 120 CHG C241 1.5 MAS 10 CHG C212 1.5 MAS 680 CHG R109 100 MAS 22 CHG C277, C288 NP WERE 2.7 CHG C289, C281 27 WERE 15 CHG C254, C255 15 WERE 3.9 CHG R245 470 MAS 330 CHG R247 470 MAS 270 SEE SHT 4	3-23-94	DMR
G6	E2	R169 5.1K MAS 10K SEE SHT 4	5-28-94	JEB
--	E3	RESEQUENCE OF REDES	22-JUN-94	GEP
J17	E4	C113 MAS 270P N750 NOM 330P N750.	11-07-94	SDM
--	E5	SEE SHT 4	06-14-95	DMR
M19 M18 L21	E6	CHG C170 270P WAS 220P CHG C169 560P WAS 470P CHG C118 100 R900 220 OHM CHG R128 220 MAS 680 SEE SHEET 4, REMOVED PRELABLE MASK DWS. ADDED 2 SWZ ASSEMBLY DWGS.	05-04-95/ 04-19-95	JEB/DMR
G21	E7	EON 066-C111 MAS 100P NPO NOM 120P NPO.	28 JAN 97	SMT
--	E8	SEE SHEET 6.	16 APR 97	SMT
E5 E6 K16 E8	E9	EON 072-C57 MAS 180P NDM 100P. R28 MAS 100 OHMS NON NP. EON 073- ADDED 100 OHM CHIP. EON 074-R28 MAS NP NOM 100 OHMS. ALSO SEE SHEET 3 & 4 FOR MORE ASSY. INFO.	05-30-97	SMT
G21	E10	EON 086-R138 MAS 820 OHMS NOM 1.5K.	09-14-98	SMT
M14	E11	EON 086-R86 MAS 1K NOM 10K.	11-13-98	SMT
--	E12	SEE SHEET 4.	04-23-99	SMT
--	E13	SEE SHEET 4.	01-28-00	DLH

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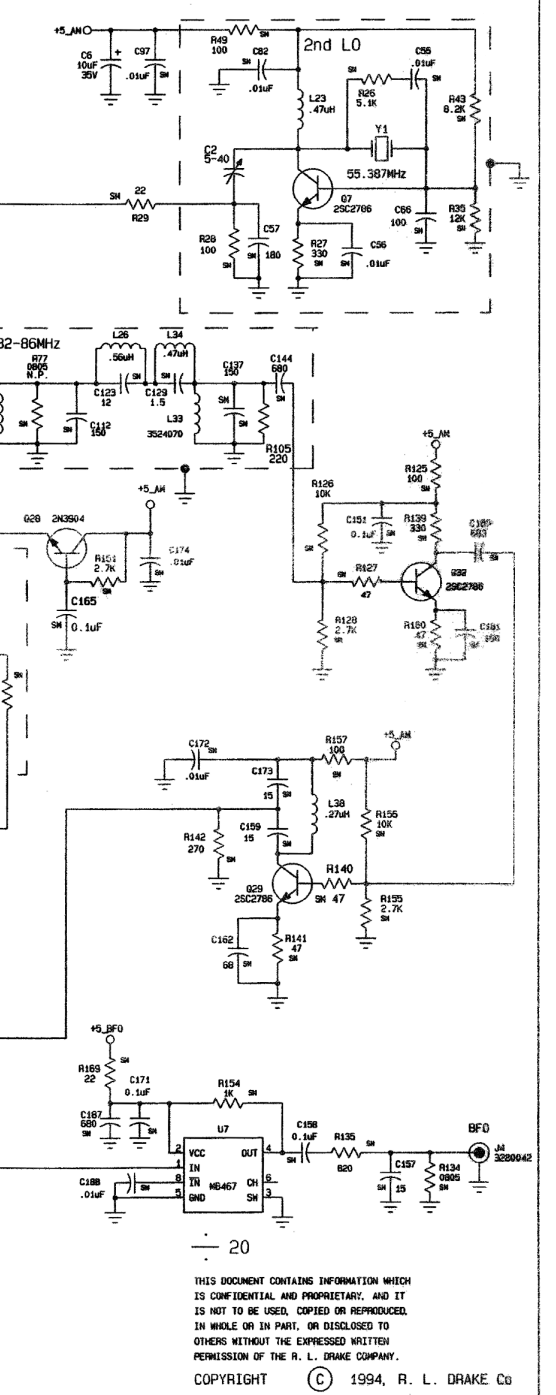
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SCHMATIC REF. D8668 E SMD PARTS, BOTTOM SIDE VIEW.

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE</small> MILS DECIMALS ANGLES +/- .005 +/- .005 +/- 1		DRAKE R. L. DRAKE CO. PCB, SYNTHESIZER	
APPROVALS DMR DMR DATE 01-15-93	SIZE D DWG. NO. 8668 REV. E13		
DO NOT SCALE DRAWING	SCALE 2:1	PART NO. 2100972/883	SHEET 5 OF 7



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	1-24-94	NH
	E1	CHG C284 15 WERE 3.9 CHG C280, C281 27 WERE 10 CHG C277, C289 NP WERE 1.5 CHG L77, L78 1.5UH WERE 1.2UH CHG L79 2.3UH WAS 2.7UH CHG R245 470 MAS 330 CHG R237 470 MAS 270 CHG R189 100 MAS 22 CHG C209 1.5 MAS 10 CHG C212 1.5 MAS 680 CHG C240 47 MAS 130 CHG L60 3524103 MAS 3524069	3-22-94	CHP
	E2	CHG R169 5.1K MAS 10K CHG C148 5.40PF MAS 3.3-20.5PF DEL L30 1.5UH DEL C144 27PF	5-20-94	JEB
	E3	RESELECTION OF PART REFDES	21-JUN-94	SEP
	E4	C113 WAS 27PF N750 NOW 33PF N750.	11-07-94	SNW

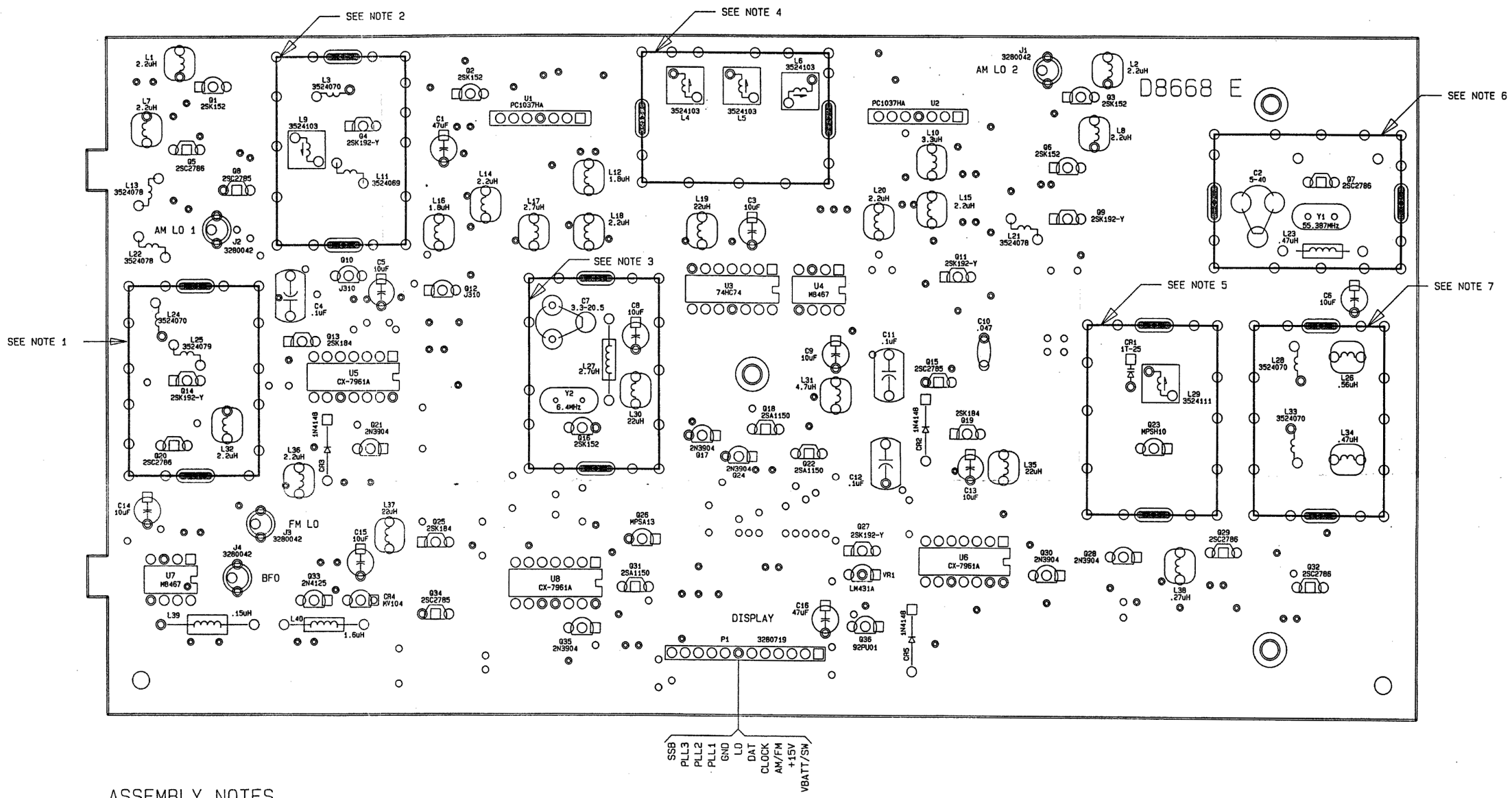


PCB REF. DB668		SW8		DRAKE R. L. DRAKE CO.	
SHEET 1 OF 1		SCHEMATIC, SYNTHESIZER		SIZE D	
DO NOT SCALE DRAWING		SCALE NONE		PART NO. 2100872	
REV. NO. E4		BMS. NO. DB667		SHEET 1 OF 1	

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	08-18-92	JFG
--	A1	PROTOTYPE ONLY.	01-15-93	DMR
--	B	PROTOTYPE	06-04-93	JG
--	C	PROTOTYPE	07-21-94	NH
--	D	PROTOTYPE	08-25-93	NH
--	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	1-28-94	NH
D13 E3	E1	CH6 L60 3524103 WAS 3524069 CH6 L77 1.78 1.50H WERE 1.20H CH6 L79 2.2 2.0H WAS 2.70H SEE SHT 5 ADD C41 AROUND L60 CH6 SHIELD BOTTOM SIDE IN NOTE 1 WAS 4561560	3-23-94	OMP
E21 F20	E2	DEL L36 1.8 1.8 C148 5-40 WAS 3.3-20 SEE SHT 5	5-28-94	JEB
--	E3	RESEQUENCE OF REFS	22-JUN-94	SEP



ASSEMBLY NOTES

1. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
2. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
3. INSTALL SHIELD BOTTOM SIDE 4561561, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
4. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
5. INSTALL SHIELD BOTTOM SIDE 4561561, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
6. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
7. NO SHIELDS AT THIS LOCATION, BOTTOM OR TOP.

SSB
PLL3
PLL2
PLL1
GND
LO
DAT
CLOCK
AM/FM
+15V
VBATT/SW

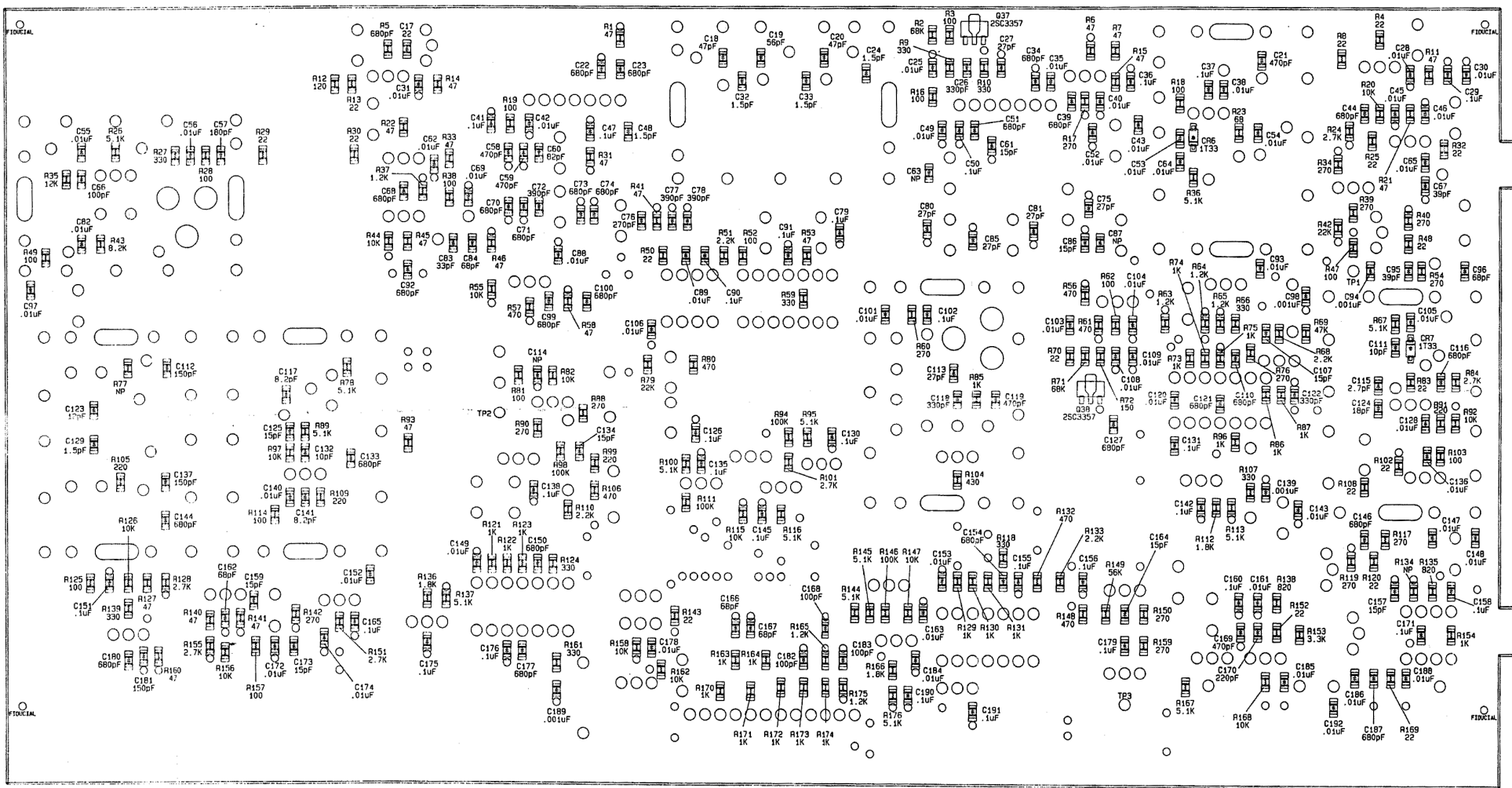
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SCHMATIC REF. D8667 ASSEMBLY PARTS, TOP SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: HOLE .005 .010 .015 OTHER .005 .010 .015		JOB NO. SW8		DRAWN DMR		DATE 01-15-93		DRAKE R. L. DRAKE CO.	
MATERIAL		APPROVALS		DATE		PCB, SYNTHESIZER		DWS. NO. 8668	
FINISH		CHECKED		ISSUED		SIZE D		REV. E3	
DO NOT SCALE DRAWING		SCALE 2:1		PART NO. 2100872		SHEET 4 OF 8			

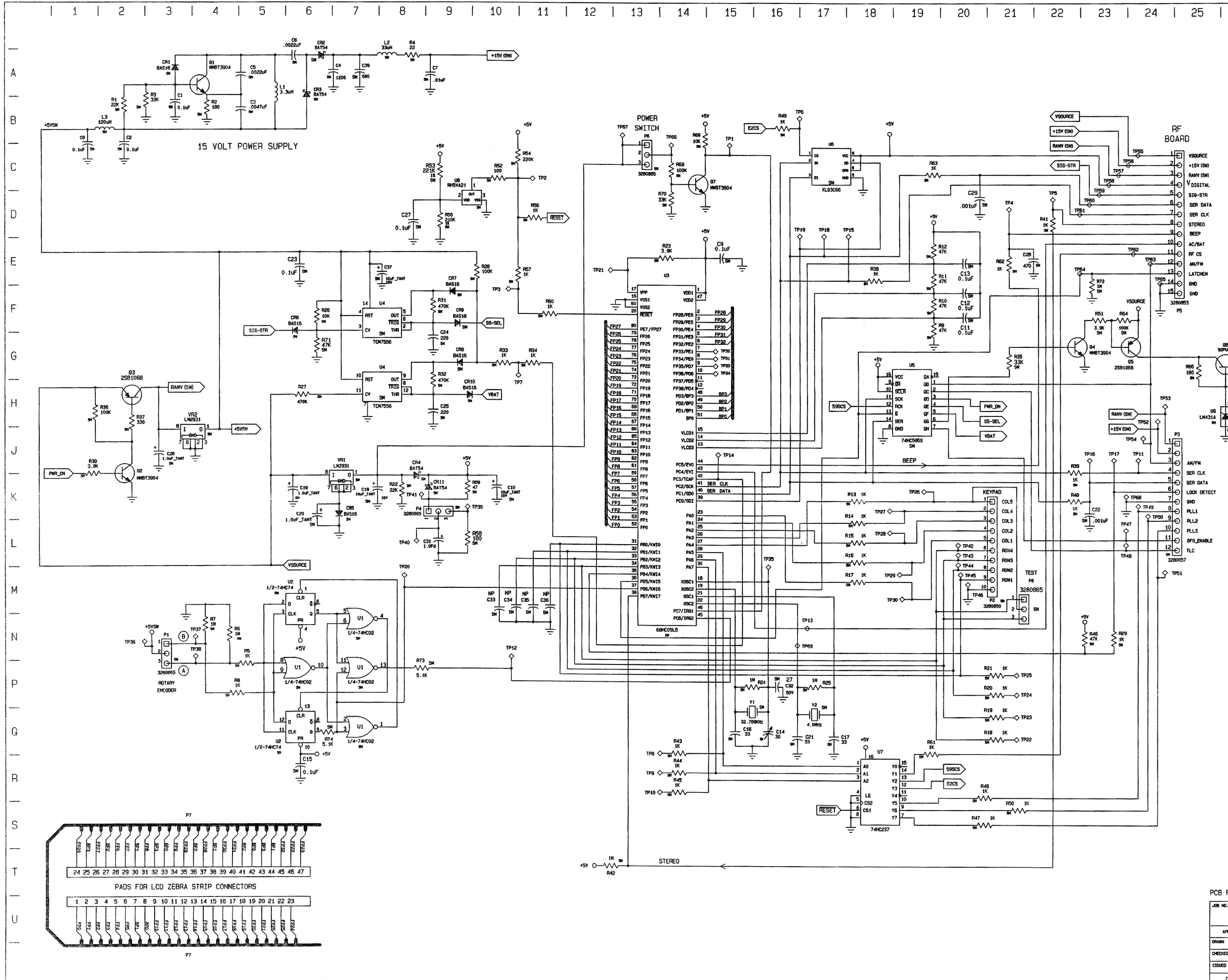
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	09-18-92	JFG
--	A1	PROTOTYPE ONLY.	01-15-93	DMR
--	B	PROTOTYPE	05-04-93	JG
--	C	PROTOTYPE	07-21-94	MM
--	D	PROTOTYPE	08-25-93	MM
--	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	1-28-94	MM
F14 F17 F18 F19 G19 H20 H21	E1	CHG C240 47 WAS 120 CHG C249 1.5 WAS 10 CHG C212 1.5 WAS 680 CHG R188 10K WAS 22 CHG C277, C289 NP WERE 2.7 CHG C290, C281 27 WERE 18 CHG C253, C254 15 WERE 3.9 CHG R245 470 WAS 330 CHG R237 470 WAS 270 SEE SH1 4	3-23-94	CMP
B6	E2	R169 5.1K WAS 10K SEE SH1 4	5-28-94	JEB
--	E3	RESEQUENCE OF REDES	22-JUN-94	6EP



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SCHEMATIC REF. D8667 SMD PARTS, BOTTOM SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:	JOB NO. SW8	DRAKE R. L. DRAKE CO.	
MILS 4" - 5	APPROVALS	DATE	PCB, SYNTHESIZER
DECIMALS 1/16" - .005	DMR	01-15-93	
FRAMES	CHECKED		SIZE D
DO NOT SCALE DRAWING	ISSUED		DWG. NO. 8668
			REV. E3
			SCALE 2:1
			PART NO. 2100872
			SHEET 5 OF 8



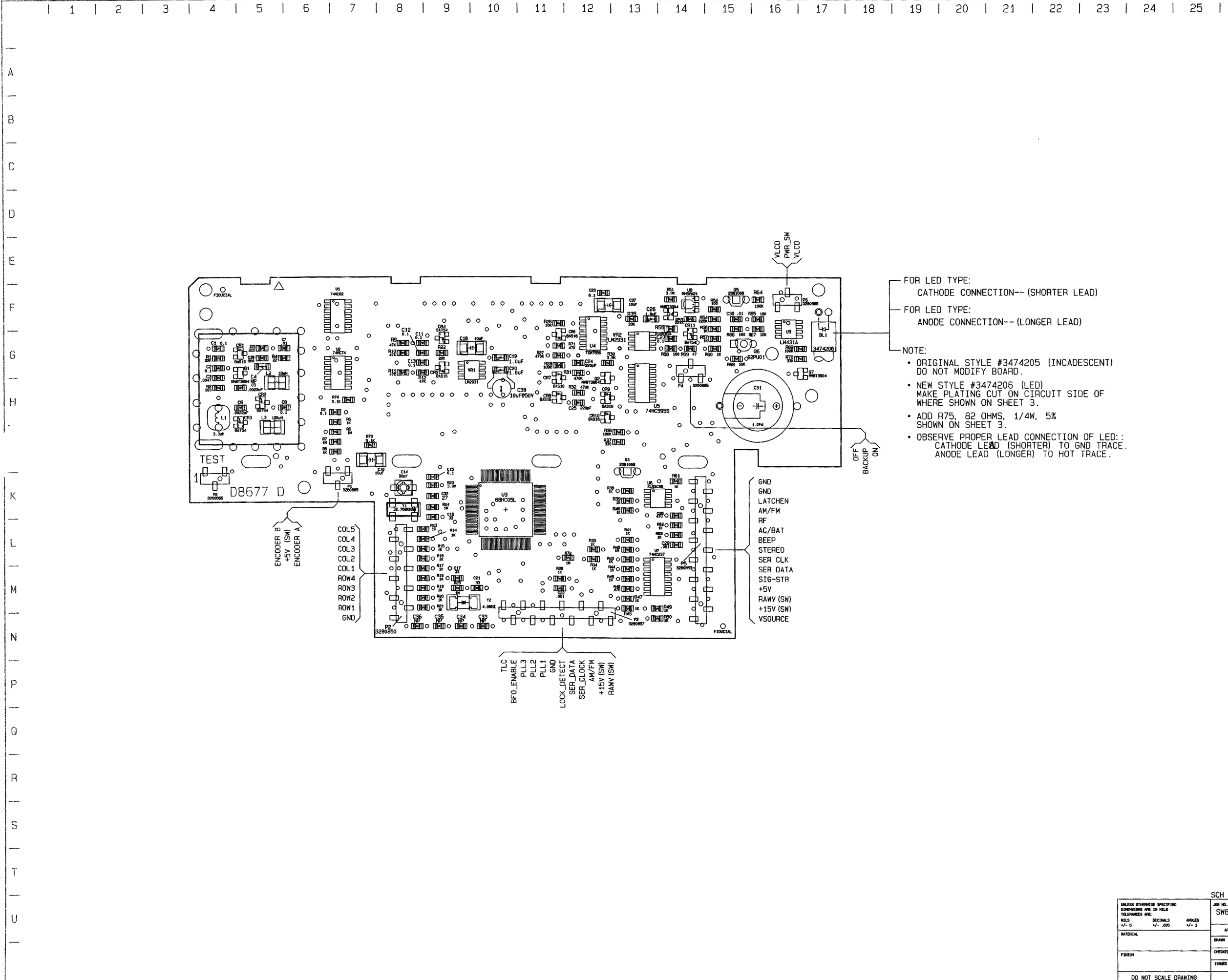
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	07-01-92	AJH
--	A1	PROTOTYPE ONLY.	11-16-92	ELE
--	B	PROTOTYPE ONLY.	05-26-93	DMR
--	B1	MISC. CIRCUIT CHANGES. SEE DB677B2.	09-15-93	CMP
J3	B2	CHG VR2 LM2931 WAS 78L05	10-12-93	ELE
EB	M13	ADD C37 10UF 5M		
		ADD C33, C34, C35 & C36 100PF 5M		
N23	C	ADDED R174 5.1K AND R73 5.1K	12-3-93	NAM
		ADDED P/N 3280953		
		ADDED TP 31 THRU 69		
C19	D	CONNECTED U6-6 TO +5V MAS GND.	3-1-94	NAM
L13	D1	CHG C33-C35 0805 WAS 100PF		
P18		REPLACE C32 100P WITH 270P	3-21-94	NAM
		CHG C39 8205 WAS 0805		
		CHG C4 0805 WAS 47UF		
A7	D2	CHG C39 680PF WAS 68PF	13 APR 94	NAM
--	D3	PCB CHANGE ONLY. SEE DB677D3.	26 JUL 94	KEF
--	D4	PCB CHANGE ONLY. SEE DB677D4.	08 DEC 94	RAD
L7	D5	ECN 75--ADDED C36 GRAPE.	23 SEP 97	DMR
D9	D6	ECN 061--R55 WAS 200K NOM 210K.	15 JUN 98	SMT
F27	D7	ECN 090--DISPLAY BACKLIGHT WAS 3474205 (INCANDESCENT) AND WAS DIRECT CONNECTION.	07 JUN 99	SMT

NOTE:
 -- ORIGINAL BACKLIGHT (3474205) (INCANDESCENT) SOURCE, DIRECT CONNECTION TO EMITTER OF (G6/R67 JUNCTION (R75 DELETED).
 -- NEW BACKLIGHT (3474206) (LED) SOURCE.
 -- ADD R75, 82 OHMS, 1/4W, 5% IN SERIES W/ ANODE.
 -- OBSERVE PROPER CONNECTION OF ANODE/CATHODE LEADS OF LED SOURCE.

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JOB NO.	SWB	DRAKE R. L. DRAKE CO.	
APPROVALS	DATE	SCH, FRONT PANEL	
DRAWN AJH	07-01-92	SIZE D	DWG. NO. 8659
CHECKED		SCALE NONE	REV. D7
ISSUED		PART NO. 2100870	SHEET 1 OF 1
DO NOT SCALE DRAWING			



FOR LED TYPE:
CATHODE CONNECTION--(SHORTER LEAD)

FOR LED TYPE:
ANODE CONNECTION--(LONGER LEAD)

- NOTE:
- ORIGINAL STYLE #3474205 (INCADESCENT) DO NOT MODIFY BOARD.
 - NEW STYLE #3474206 (LED) MAKE PLATING CUT ON CIRCUIT SIDE OF WHERE SHOWN ON SHEET 3.
 - ADD R75, 82 OHMS, 1/4W, 5% SHOWN ON SHEET 3.
 - OBSERVE PROPER LEAD CONNECTION OF LED.: CATHODE LEAD (SHORTER) TO GND TRACE. ANODE LEAD (LONGER) TO HOT TRACE.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	09-03-92	LEG
--	A1	PROTOTYPE ONLY.	02-09-93	DMR
--	B	PROTOTYPE ONLY.	06-01-93	DMR
--	B1	CHANGED SOLDER MASK AROUND U3. CHANGED SOLDER MASK TYPE TO DRY FILM.	27 AUG 93	RAD
B11	M11	ADD R71 47K ADD R72 1M ADD C32 100P CHG C35 33K MAS 3.9K CHG R51 3.9K MAS 180 CHG R62 1K MAS 200K CHG R64 100K MAS 22K CHG R6 98P001 MAS 98P005	9-15-93	DMP
F13	B3	ADD C37 10UF (TH) ADD C33, C34, C35 AND C36 100PF (TH)	10-13-93	ELE
E16	B4	UPDATE NET NAMES ON P5. UPDATED NET NAMES ON P5. ADDED TLC NET NAME ON P5.	10-29-93	RAD
--	C	ADDED TEST POINTS 30-69.	12-23-93	MAN
-	D	CHANGED DISPLAY LENS ALIGNMENT HOLES FROM 53 TO 55 CHANGED ALL VIAS TO TYPE 51 (.018 DIA.) CONNECTED U6-6 TO +5V MAS GND. MOVED TOP SIDE TRACE AWAY FROM MOUNTING HOLE	3-1-94	MAN
M8	D1	CHG C33-C36 0805 MAS 1000P REPLACED C32 100P WITH 27P CHG C39 680P MAS 0805 CHG C4 0805 MAS .47UF	3-24-94	MAN
65	D2	CHG C39 680P MAS 68P	4-13-94	MAN
--	D3	SEE SHEET 1.	7-26-94	KEF
--	D4	ADDED SHEET 8	08 DEC 94	RAD
M10	D5	EDN 075--ADDED C38 GRAPE	24 SEP 97	DMR
F14	D6	EDN 081--R55 MAS 200K 1% NOW 210K 1%.	15 JUN 98	SMT
F17	D7	EDN 090--DISPLAY BACKLIGHT MAS 3474205. FOR NEW STYLE, 3474206. SEE NOTES THIS SHEET AND SHEET 3.	07 JUN 99	SMT

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SCH REF D8659 ASSEMBLY PARTS, TOP SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		JOB NO. SWB		APPROVALS		DATE	
MILS	DECIMALS	DRAWN		LEG		09-03-92	
+/- 0	+/- .005	MATERIAL		CHECKED		ISSUED	
FINISH		SIZE		D		DNG. NO. 8677	
DO NOT SCALE DRAWING		SCALE		2:1		PART NO. 2100870	
		SHEET		4 OF 5		REV. D7	

DRAKE R. L. DRAKE CO.

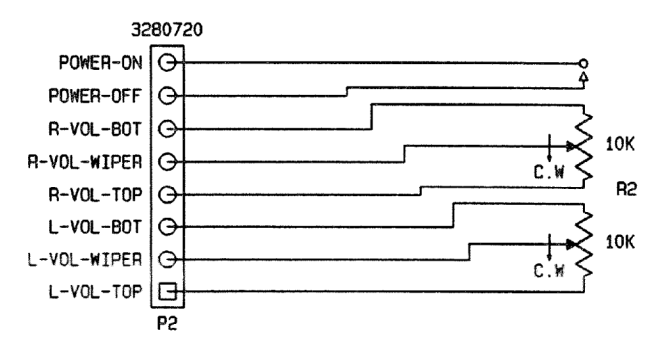
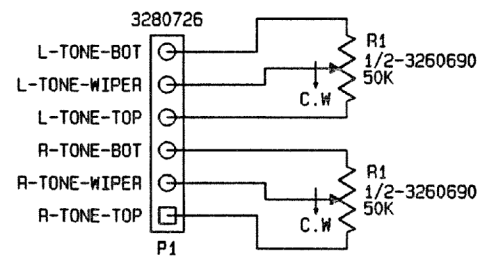
PCB, FRONT PANEL

SCALE 2:1 PART NO. 2100870 SHEET 4 OF 5

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	NEW DRAWING	12-14-92	LEG
-	A1	PCB CHANGE ONLY.	12-22-98	EDB

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B
C
D
E
F
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PCB REF: C8837

JOB NO. SW8		DRAKE R. L. DRAKE CO.		
APPROVALS	DATE	SCH, ON/OFF, VOLUME, TONE CTL.		
DRAWN LEG	12-14-92			
CHECKED		SIZE C	DWG. NO. C8836	REV. A1
ISSUED		SCALE NONE	PCB REF. 2100955/2100960	SHEET 1 OF 1
DO NOT SCALE DRAWING				

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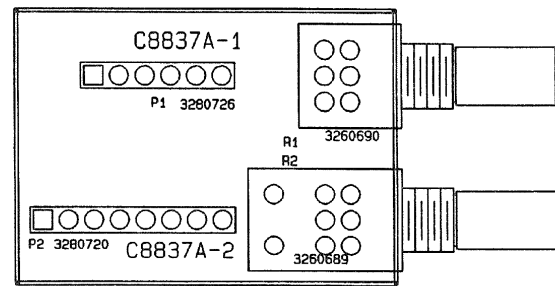
L

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P

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	BY
--	A	NEW DRAWING.	12-11-92	LEB
--	A1	CHANGED Y DIMENSION TO COMPENSATE FOR SCORING vs ROUTING PCB. ALSO CHANGED TO 310 #.	12-22-98	EDB



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SCH REF: C8836

ASSEMBLY PARTS, TOP SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE: MILS +/- .15 DECIMALS +/- .015 ANGLES +/- 1	USED OR: SW8		DRAKE R. L. DRAKE CO.	
	APPROVALS		DATE	
MATERIAL	DRAWN	EDB	12-22-98	PCB, ON/OFF, VOLUME, TONE CTL.
FINISH	CHECKED			SIZE
	ISSUED			C
DO NOT SCALE DRAWING		SCALE	2: 1	DWG. NO. C8837 PART NO 2100955/2100960 SHEET 4 OF 4
				REV. A1

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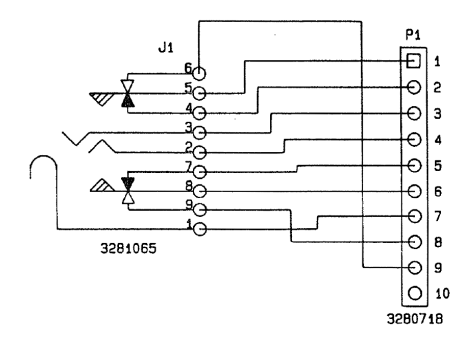
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	B	REDRAWN	25 AUG 93	RAD



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PCB REF. C8905		JOB NO. SW8		R. L. DRAKE CO.	
APPROVALS	DATE	SCH, STEREO HEADPHONE JACK			
DRAWN RAD	25 AUG 93	SIZE C	DWG. NO. 8955	REV. B	
CHECKED		SCALE NONE	PCB REF. 2100950	SHEET 1 OF 1	
ISSUED					

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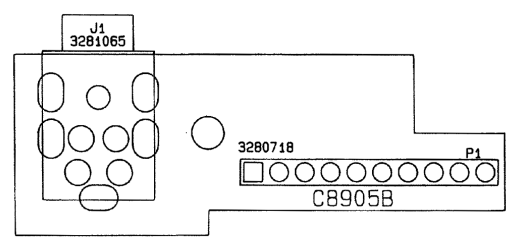
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A0	NEW DRAWING.	01-05-93	LEG
F7	B	EDGE DIMENTION WAS 1.650", MOVED CIRCUIT ON SOLDER SIDE.	01-05-93	RAD



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SCH. REF. C8955 ASSEMBLY PARTS, TOP SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE: MILS DECIMALS ANGLES +/- .15 +/- .015 +/- 1	JOB NO. SW8		DRAKE R. L. DRAKE CO.	
	APPROVALS	DATE		
MATERIAL	DRAWN LEG	1-5-93	PCB, STEREO HEADPHONE JACK	
FINISH	CHECKED		SIZE C	DWG. NO. 8905
	ISSUED		REV. B	
DO NOT SCALE DRAWING	SCALE 2:1		PART NO. 2100950	SHEET 4 OF 6