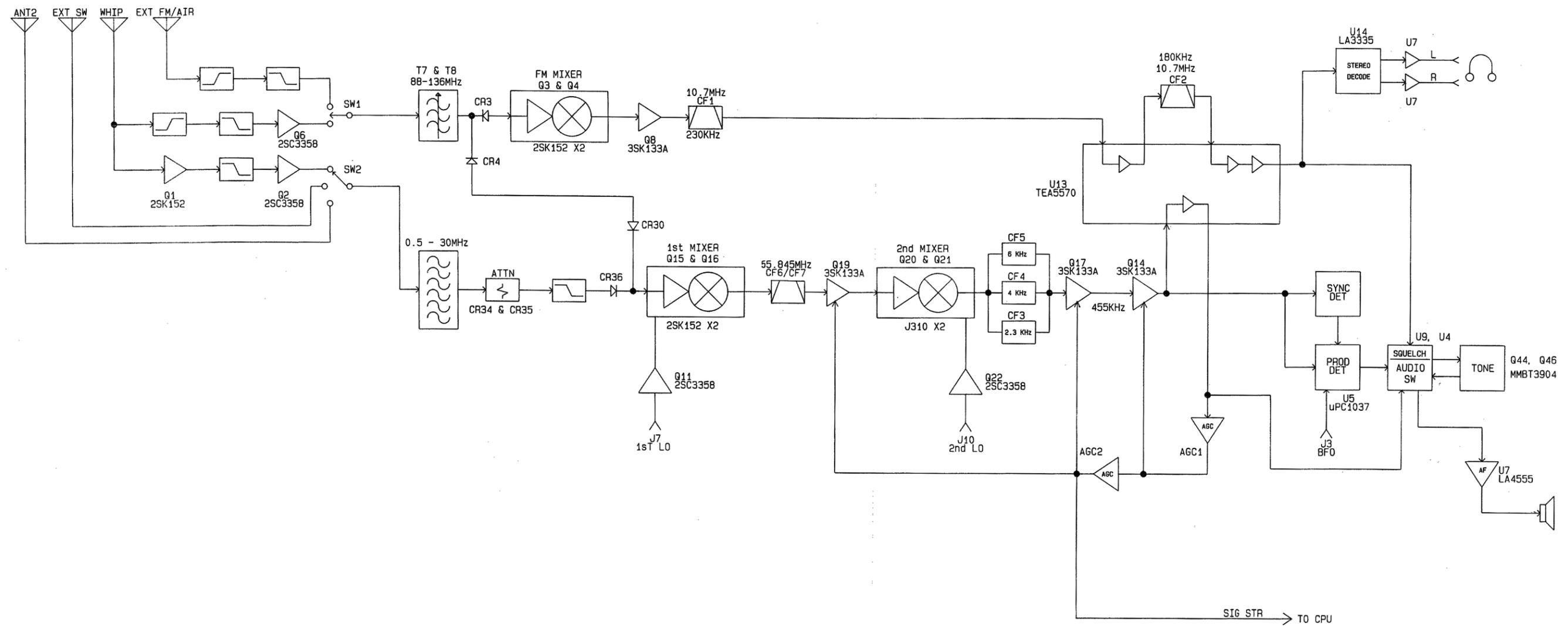
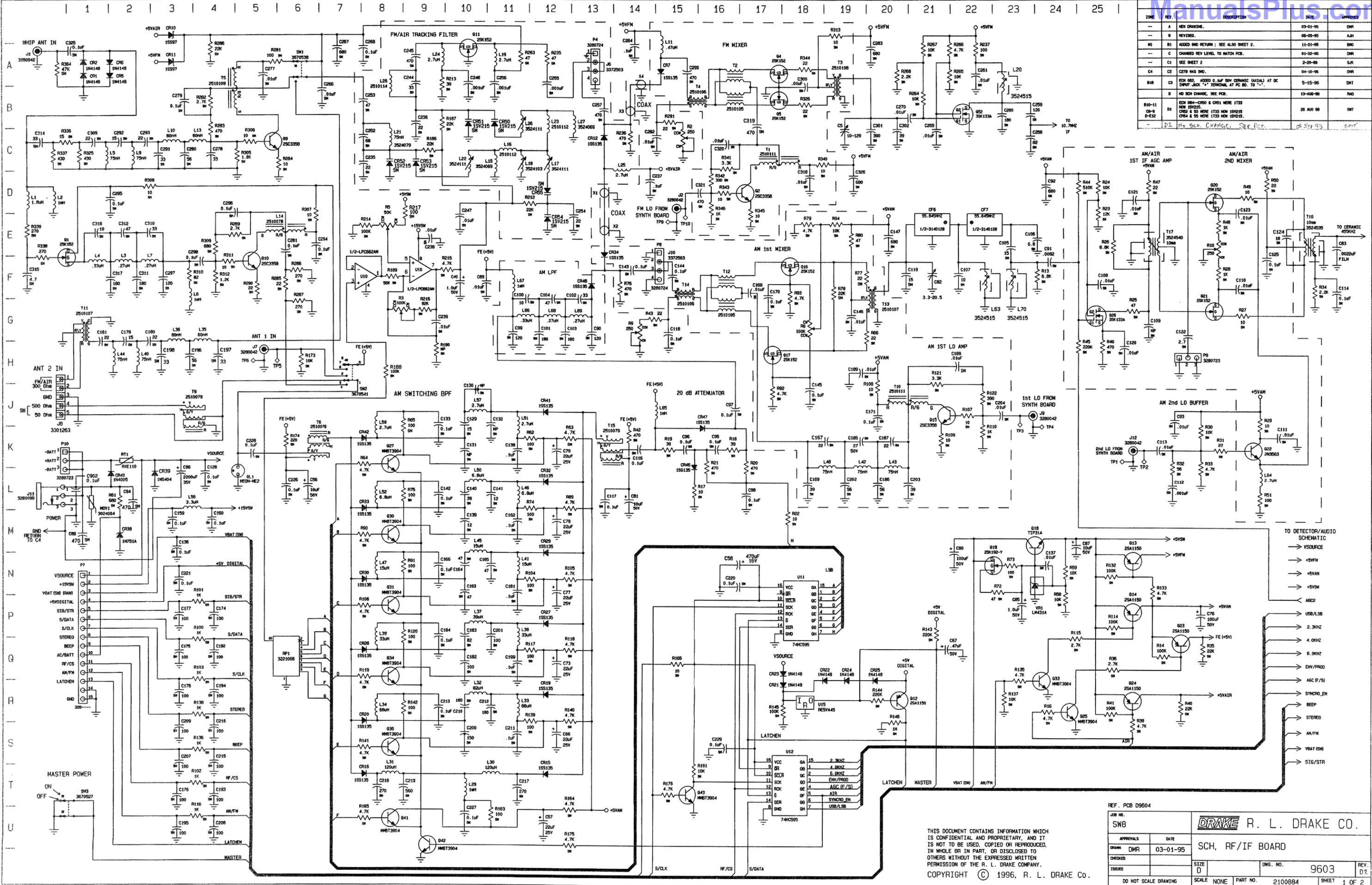


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A0	NEW DRAWING	8-31-93	KEF



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

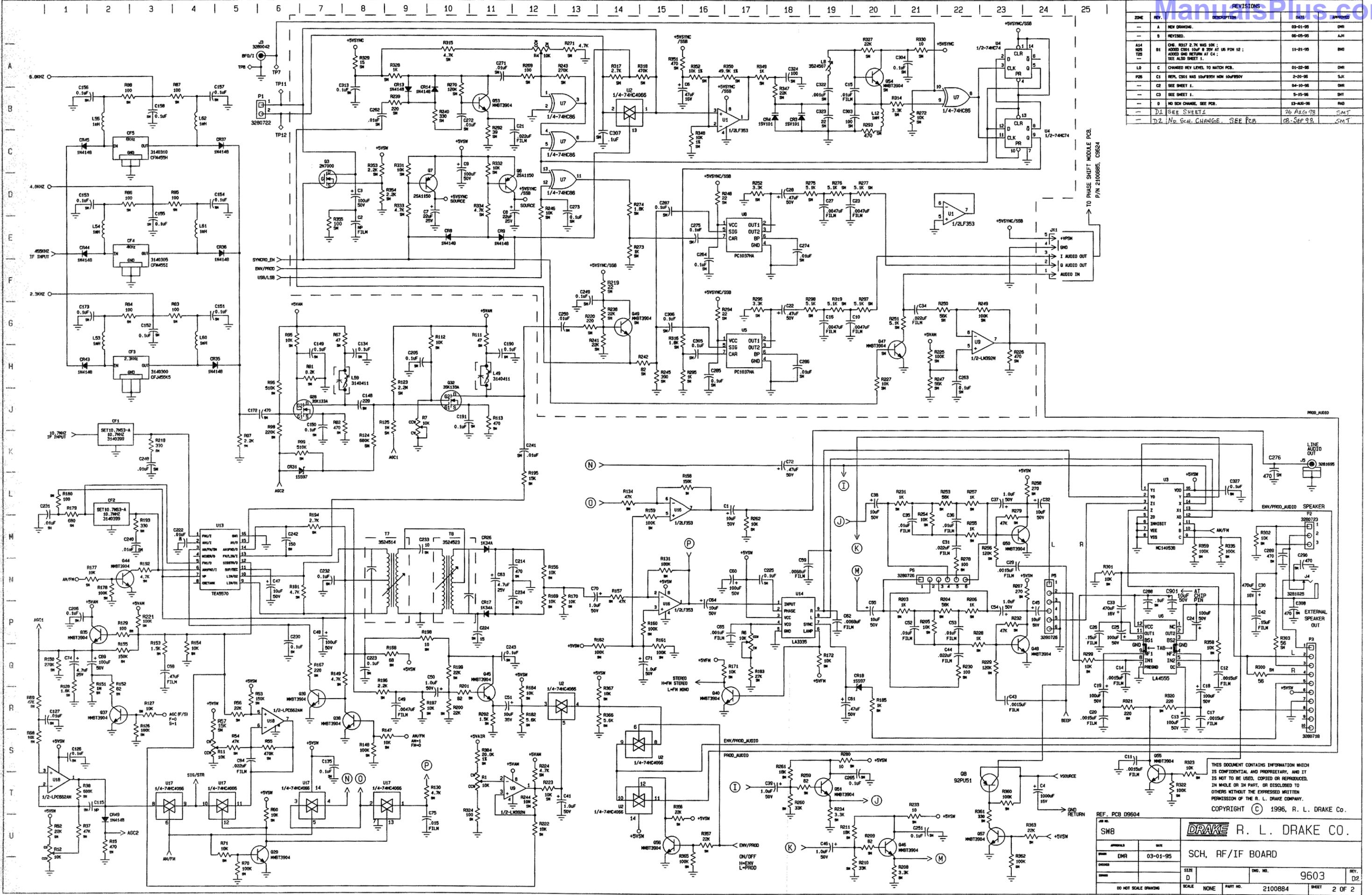


ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	NEW DRAWING.	03-01-95	DMR
-	B	REVISED.	05-05-95	AJM
M1	B1	ADDED GND RETURN; SEE ALSO SHEET 2.	11-21-95	BMO
-	C	CHANGED REV LEVEL TO MATCH PCB.	01-22-96	DMR
-	C1	SEE SHEET 2	2-20-96	SJK
C4	C2	C278 WAS BND.	04-10-96	DMR
B18	C3	ADD 0.1UF 50V CERAMIC (ACTUAL) AT DC INPUT JACK "X" TERMINAL AT PC BD. TO "1".	5-15-96	SMY
-	D	NO SCH CHANGE, SEE PCB.	13-AUG-96	RMO
B10-11	D1	ICN 084-C350 & CR11 WERE 1T33 NOW 1SV215; CR2 & 53 WERE 1T33 NOW 1SV215; CR4 & 52 WERE 1T33 NOW 1SV215.	26 AUG 98	SMY
-	D2	No Sch CHANGE. See PCB.	08 SEP 93	SMY

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

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ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	NEW DRAWING.	03-01-95	DMR
-	B	REVISED.	05-05-95	AJM
A14	B1	CHG. R317 2.7K MID. LIM.; 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. C301 HAS 100PF/50V NON 100PF/50V	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



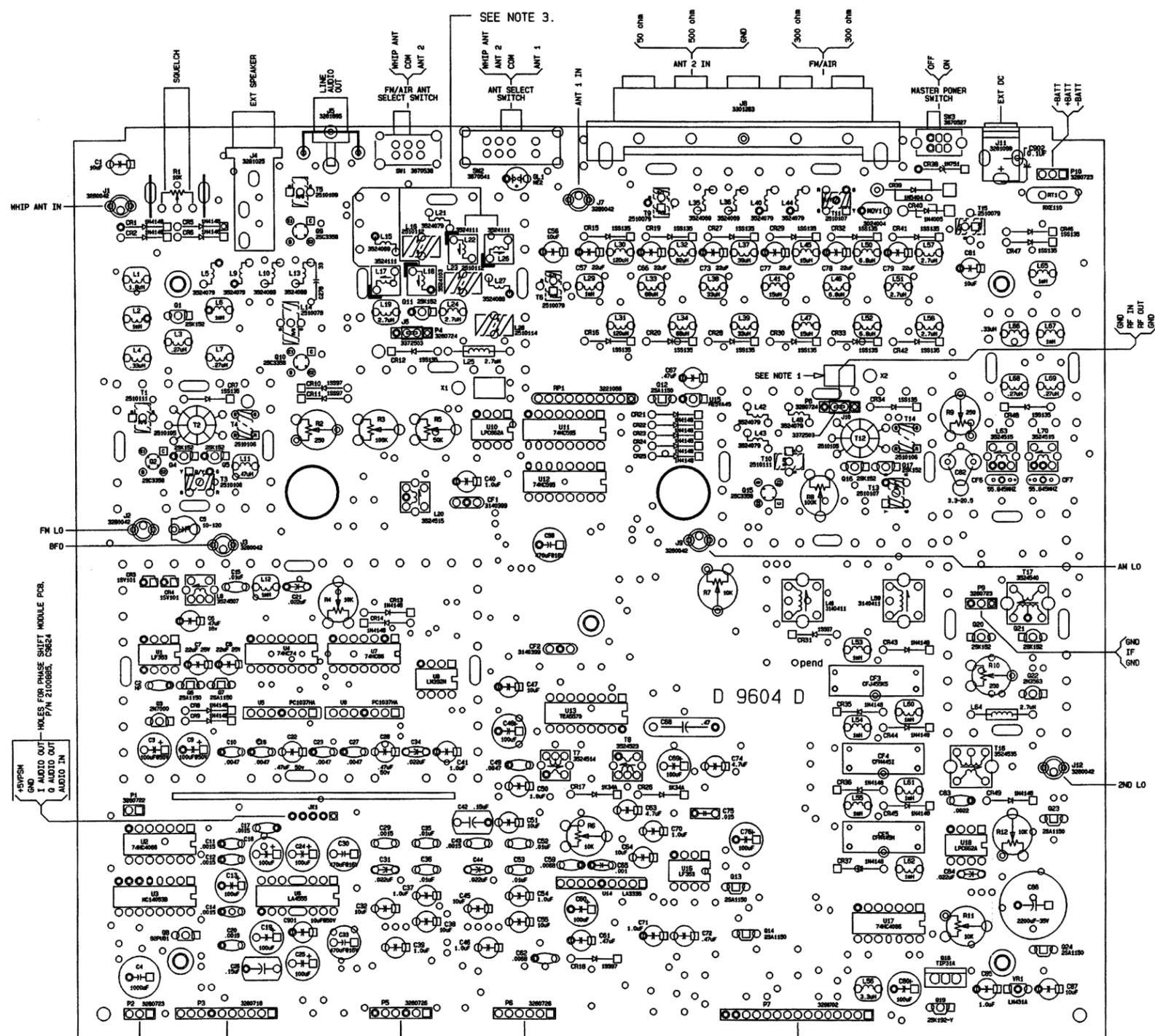
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REF. PCB D9604

REV. SWB	DATE 03-01-95	SCH. RF/IF BOARD	
APP. DMR	DATE 03-01-95	SIZE D	QWG. NO. 9603
DO NOT SCALE DRAWING	SCALE NONE	PART NO. 2100884	SHEET 2 OF 2

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 10uF/50V AT US PIN 12; SEE ALSO SHEETS 2 & 5.	21 NOV 95	BND
	C	MADE PROVISIONS TO INSTALL C901 ON BOARD.	01-24-96	DMR
PB	C1	REPL. C901 WAS 10uF/50V NOW 10uF/25V	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				



- ASSEMBLY NOTES:**
- 1) INSTALL TYPE RG178 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 L26 WITH SHORT SHOULDER AT BOTTOM LEFT POSITION.  
INSTALL L17 WITH SHORT SHOULDER AT BOTTOM LEFT POSITION.  
INSTALL L18 WITH SHORT SHOULDER AT UPPER LEFT POSITION.

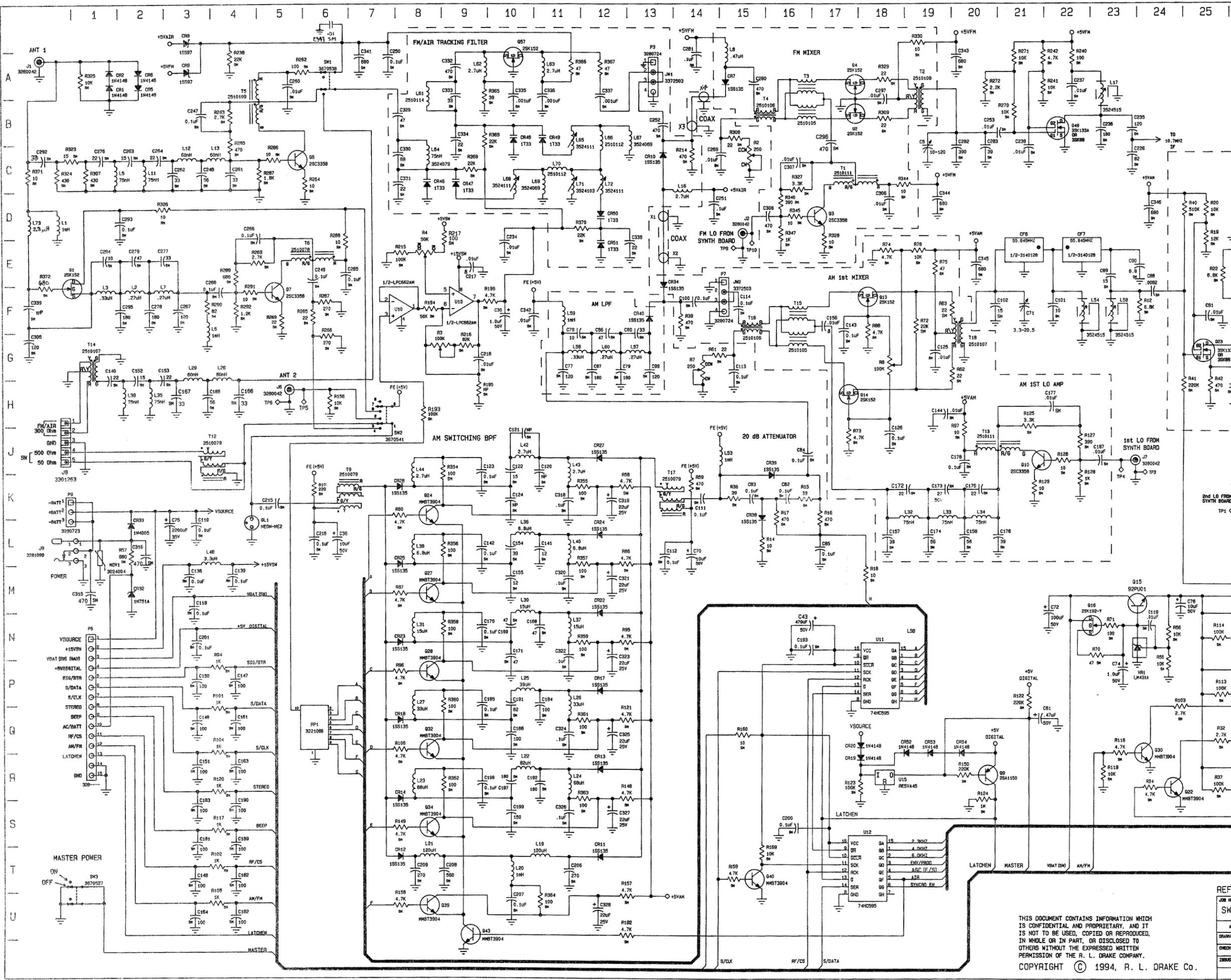
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ASSEMBLY PARTS, TOP SIDE VIEW.

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





REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
E	1	REWORKED, REVISED CIRCUITRY, REVISED C221 THRU C225, C282, C283, C304, C345 THRU C348, L15, R215, R228, T7 & T8, ADDED C318 THRU C320, C346 THRU C348, L8A THRU L7A, R254 THRU R272 & R27, C251 & C281 WERE .01uF. SEE SHEET 2.	01-24-94	DMR
F	1	ADDED C282 THRU C284, R123 WAS 47K.	03-16-94	DMR
G	1	ADDED C341 THRU C346.	04-19-94	DMR
G1	1	SEE SHEET 2	5-27-94	JFK
A6	07	ADDED .01uF 50V CAP C347	8-11-94	KCP
E6	03	C292 WAS 92, L73 WAS 0.33uH, R372 WAS 270, C339 WAS 100	12/27/94	SDW

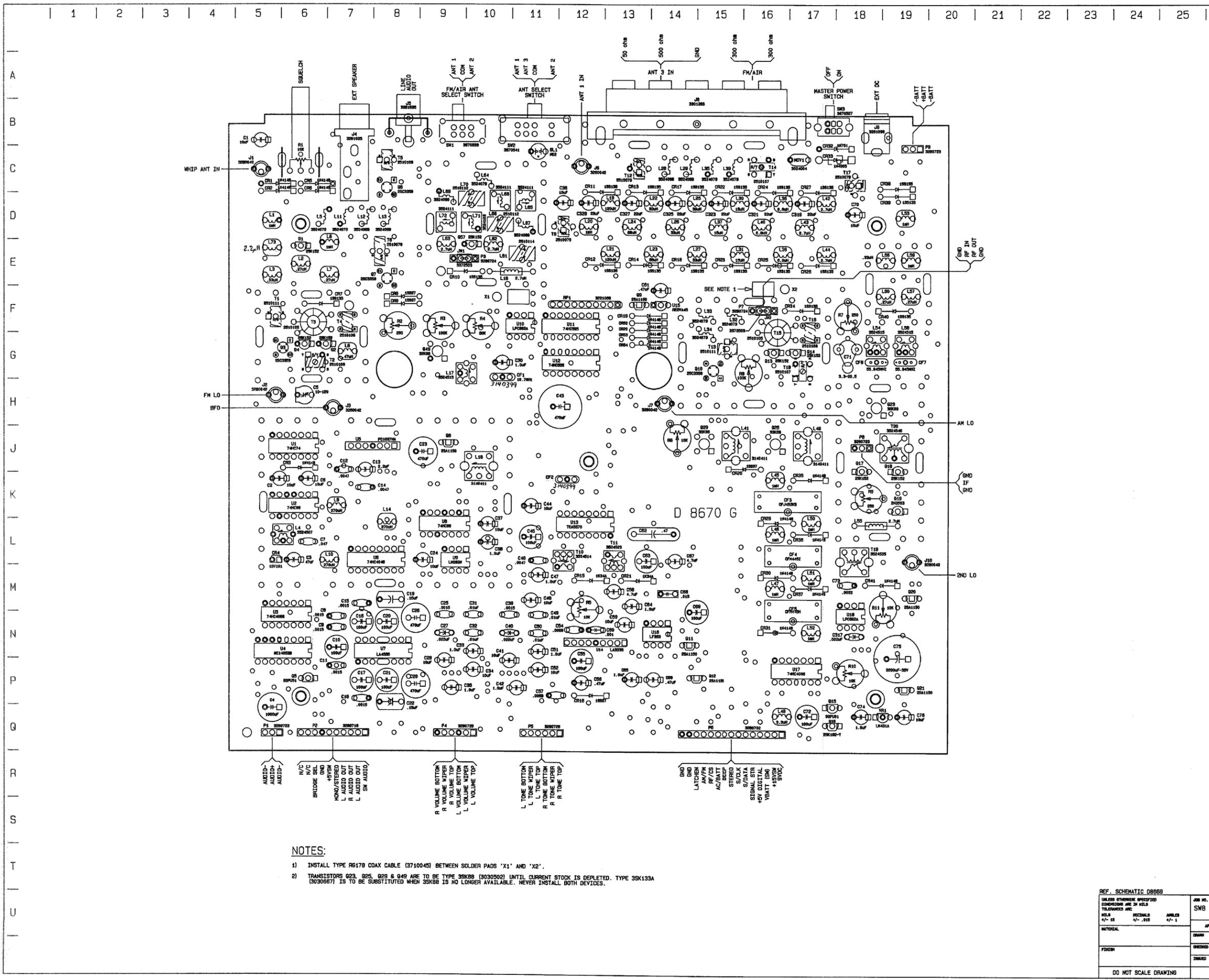
REF. ASSEMBLY D8670

JOB NO.	SWB	DRAKE R. L. DRAKE CO.	
APPROVALS	DATE	SCH. RF/IF BOARD	
DRAWN	AJH	06-18-92	
CHECKED			
ISSUED			
DO NOT SCALE DRAWING		SCALE	NONE
		PART NO.	2100871
		DWG. NO.	8669
		SHEET	1 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 L78 & Q57, 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 3 & 5.	8-11-94	KCF
-	G4	SEE SHEET 8.	10-07-94	BAO
E5	G5	L73 WAS 0.33µH	12/27/94	SDW
C16	F16	Corrected Pictorial of Toroid Installation T14, T18	6/1/95	NKL

NOTES:

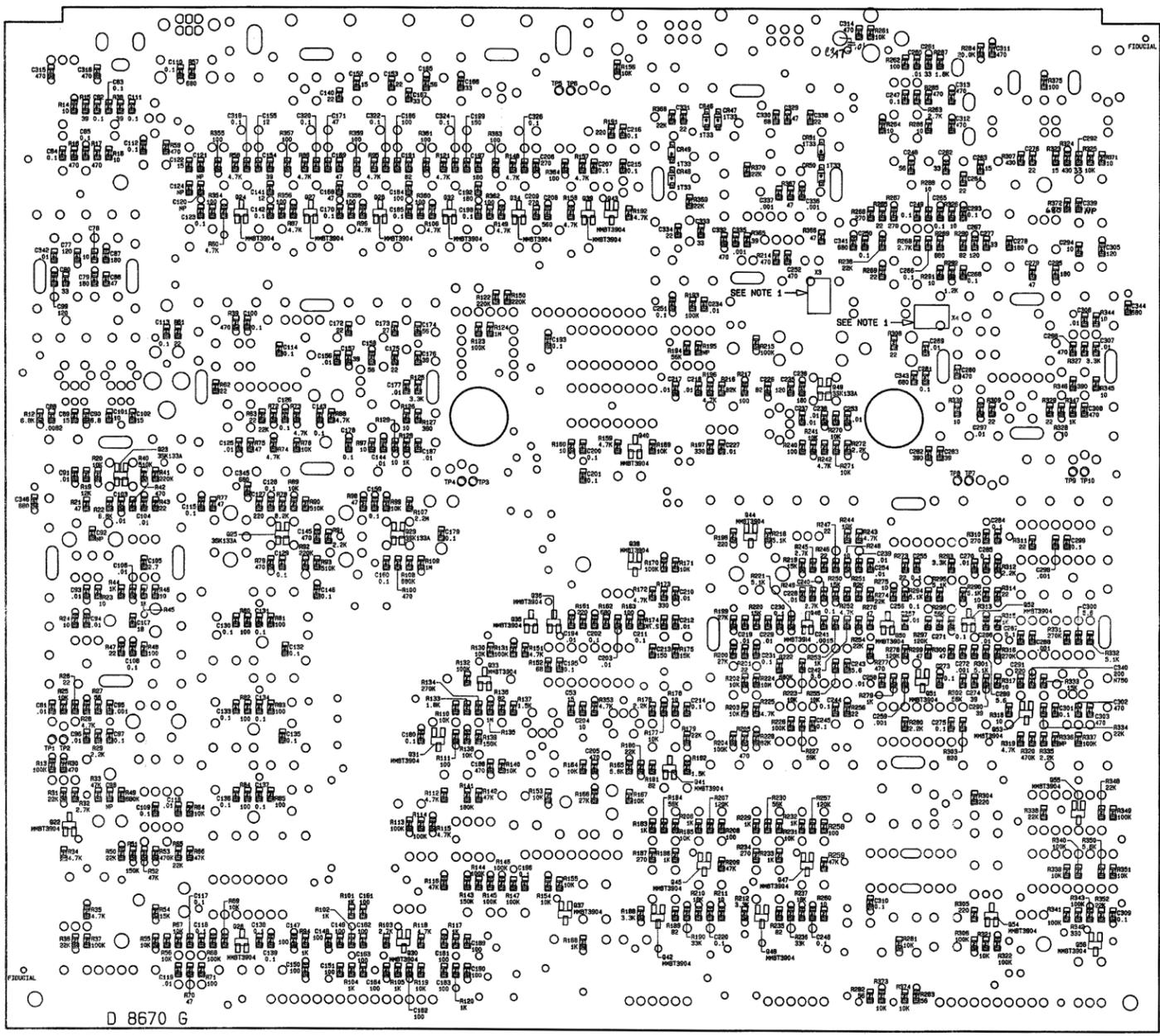
- 1) INSTALL TYPE RS178 COAX CABLE (3710045) BETWEEN SOLDER PADS 'X1' AND 'X2'.
- 2) TRANSISTORS Q23, Q25, Q28 & Q49 ARE TO BE TYPE 2SK98 (9030502) UNTIL CURRENT STOCK IS DEPLETED. TYPE 2SK133A (9030667) IS TO BE SUBSTITUTED WHEN 2SK98 IS NO LONGER AVAILABLE. NEVER INSTALL BOTH DEVICES.

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REF. SCHEMATIC 08669		JOB NO. SWB	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE		DRAWN DMR 11-30-92	
MATERIAL		CHECKED	
PART NO.		DRAWN	
DO NOT SCALE DRAWING		DATE	
		APPROVALS	
		DATE	
		11-30-92	
		PCB, SWB RF/IF	
		SIZE D	
		DWG. NO. 8670	
		REV. G5	
		SCALE 1.5:1	
		PART NO. 2100871	
		SHEET 4 OF 8	

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

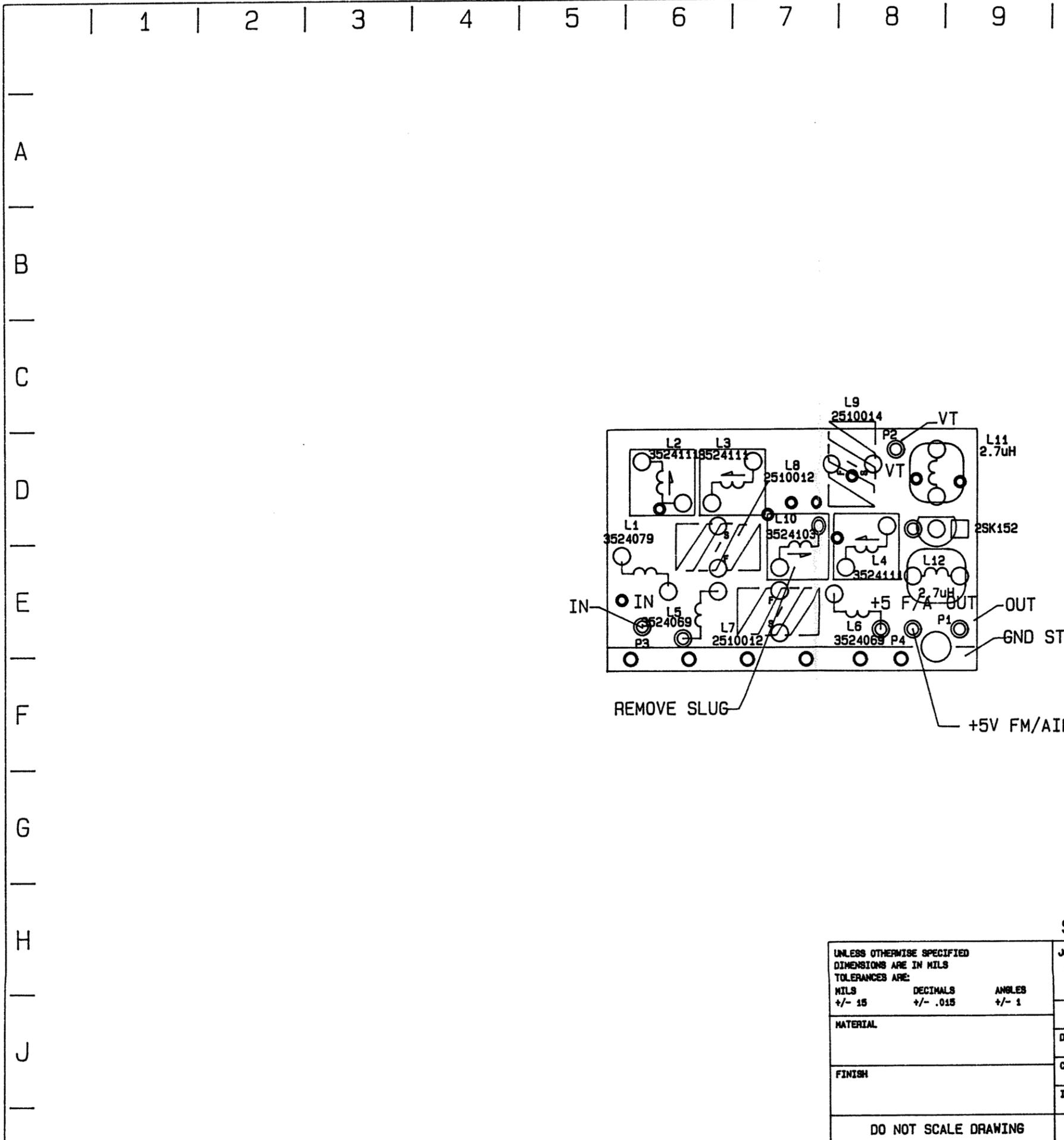
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	E	REDRAWN. REMOVED C221 THRU C225, C232, C233, C304, C342 THRU C345, R213 & R239. ADDED C318, C350, C352, C354, C355, C329 THRU C340, C346 THRU C351 & R354 THRU R375. C188 & C205 WERE 270. C291 WAS 470.	02-03-94	DMR
D14	F	R369 & R370 WERE 22 OHM.	03-17-94	DMR
-	F1	R129 WAS 47K. SEE SHEET 4.	03-24-94	REP
VAR	G	R284 WAS 10K. SE. R375 WAS NP. ADDED C341 THRU C346.	04-25-94	DMR
-	G1	SEE SHEET 4	5-27-94	J.E.B.
-	G2	SEE SHEET 1.	7-26-94	K.E.P.
016	G3	ADD 0.01M OHM CAP TO AND FROM SW101	8-11-94	KEP
-	G4	SEE SHEET 8.	10-07-94	B.M.O.
D19	G5	C292 WAS 82pF, R372 WAS 270 OHM, C339 WAS 180pF	12/27/94	S.D.W.

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REF. SCHEMATIC D8669		JOB NO. SW8		DRAWN DMR		DATE 11-30-92		PCB, SW8 RF/IF	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		APPROVALS		DATE		SIZE D		DWG. NO. 8670	
MATERIAL		DRAWN		DATE		REV. G5		SHEET 5 OF 8	
PART NO.		SCALE 4:1		PART NO. 2100871		SHEET 5 OF 8			



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

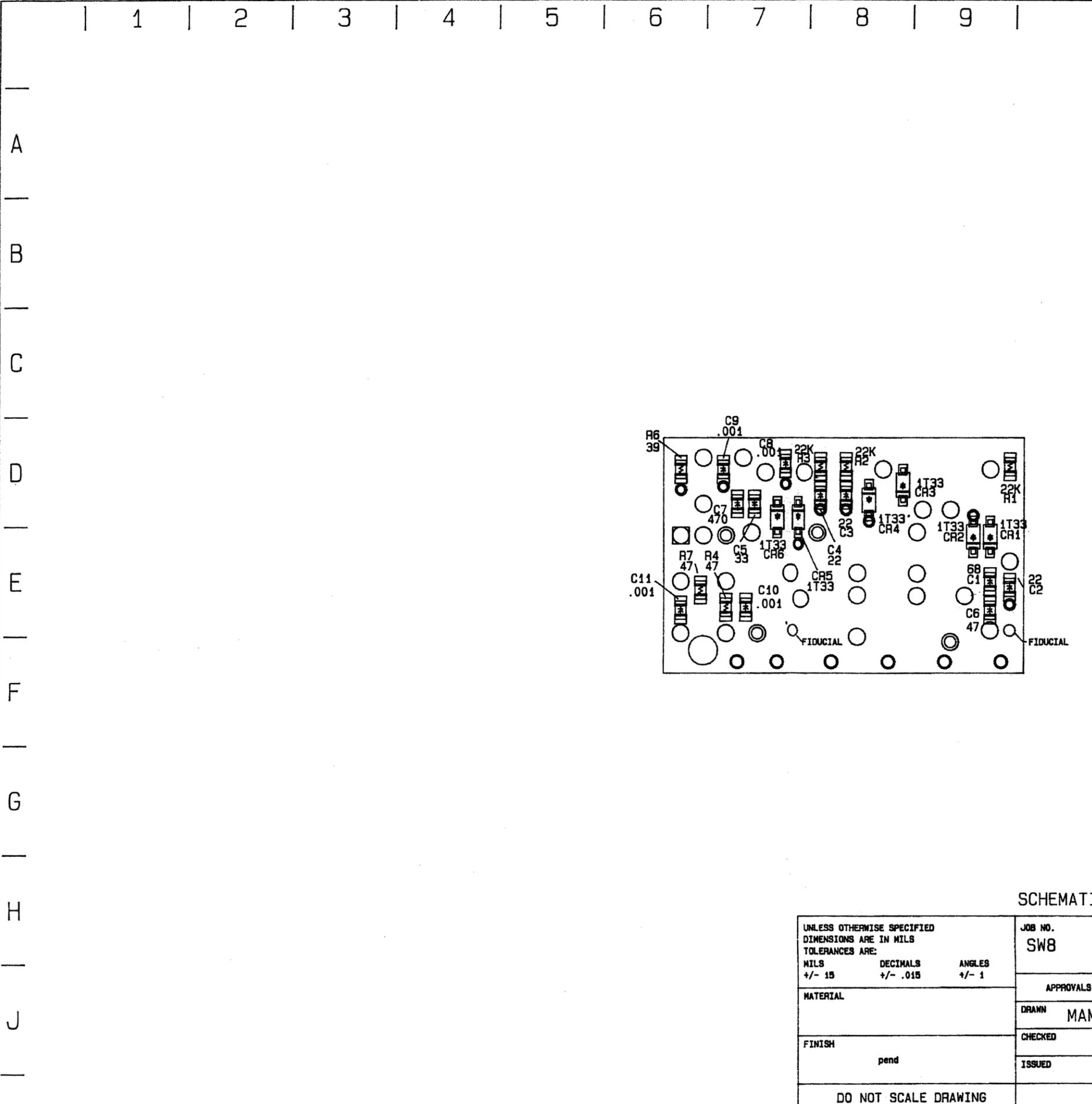


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SCHEMATIC REF. C9153

ASSEMBLY PARTS, TOP SIDE VIEW.

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

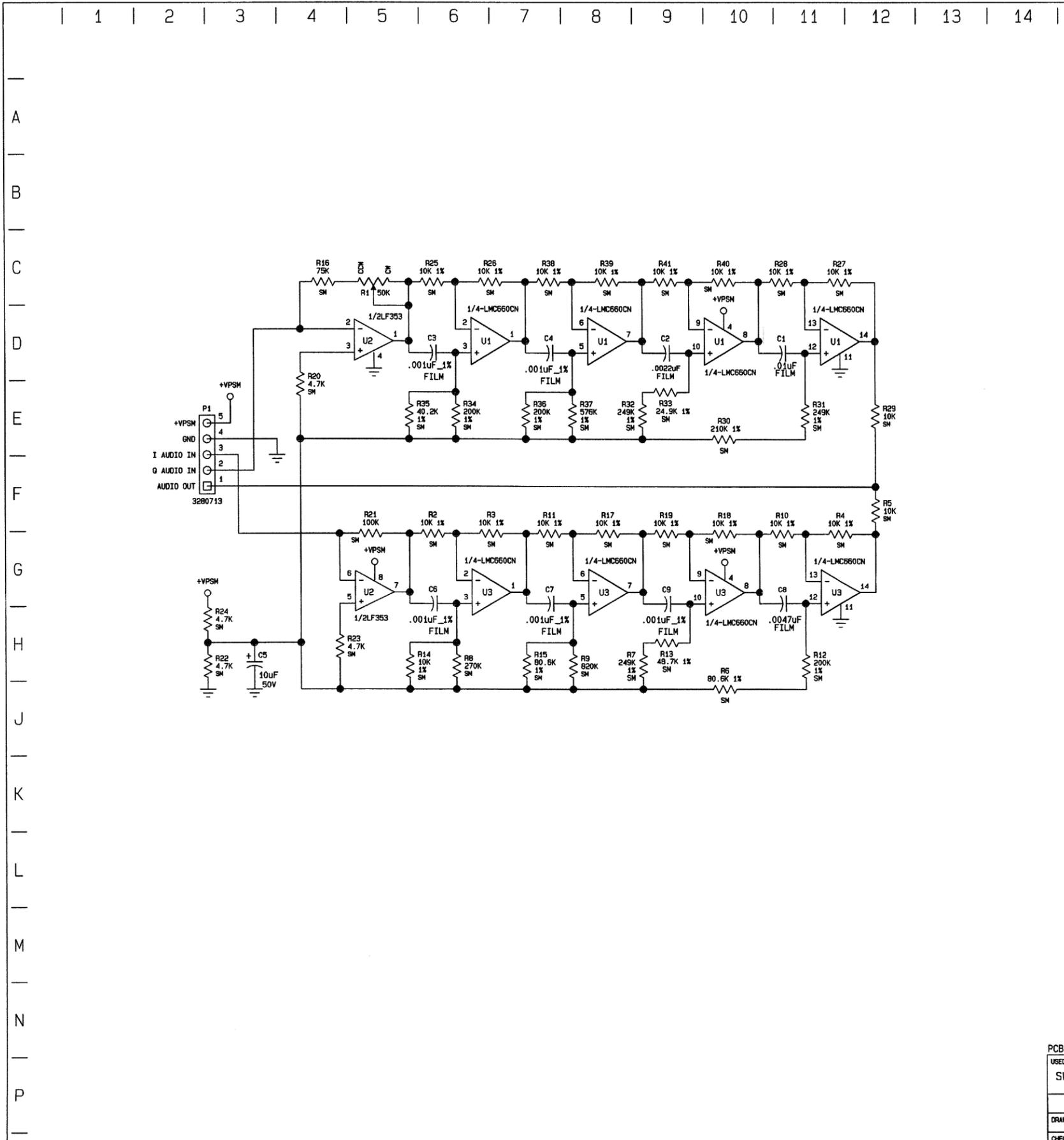


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	NEW	10-18-93	MAM
-	B	CHANGED FOOTPRINT OF TOROID L7, L8 AND L9 ADDED C9, C10, C11, R4, R6, R7, Q1, L11 AND L12.	11-17-93	MAM

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

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



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

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

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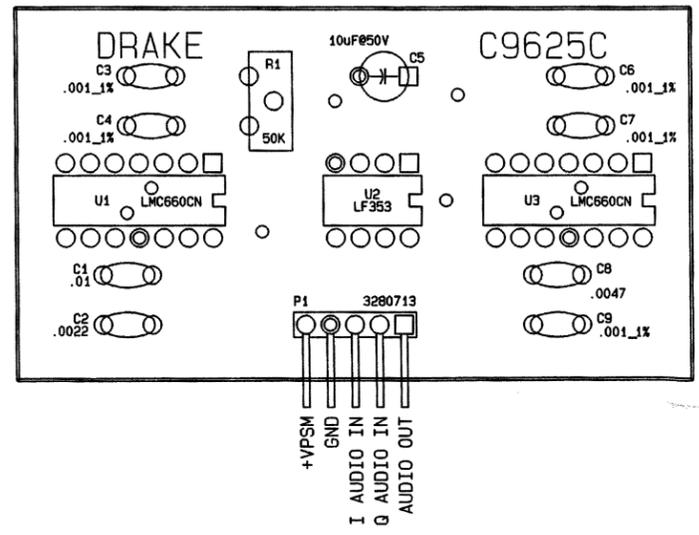
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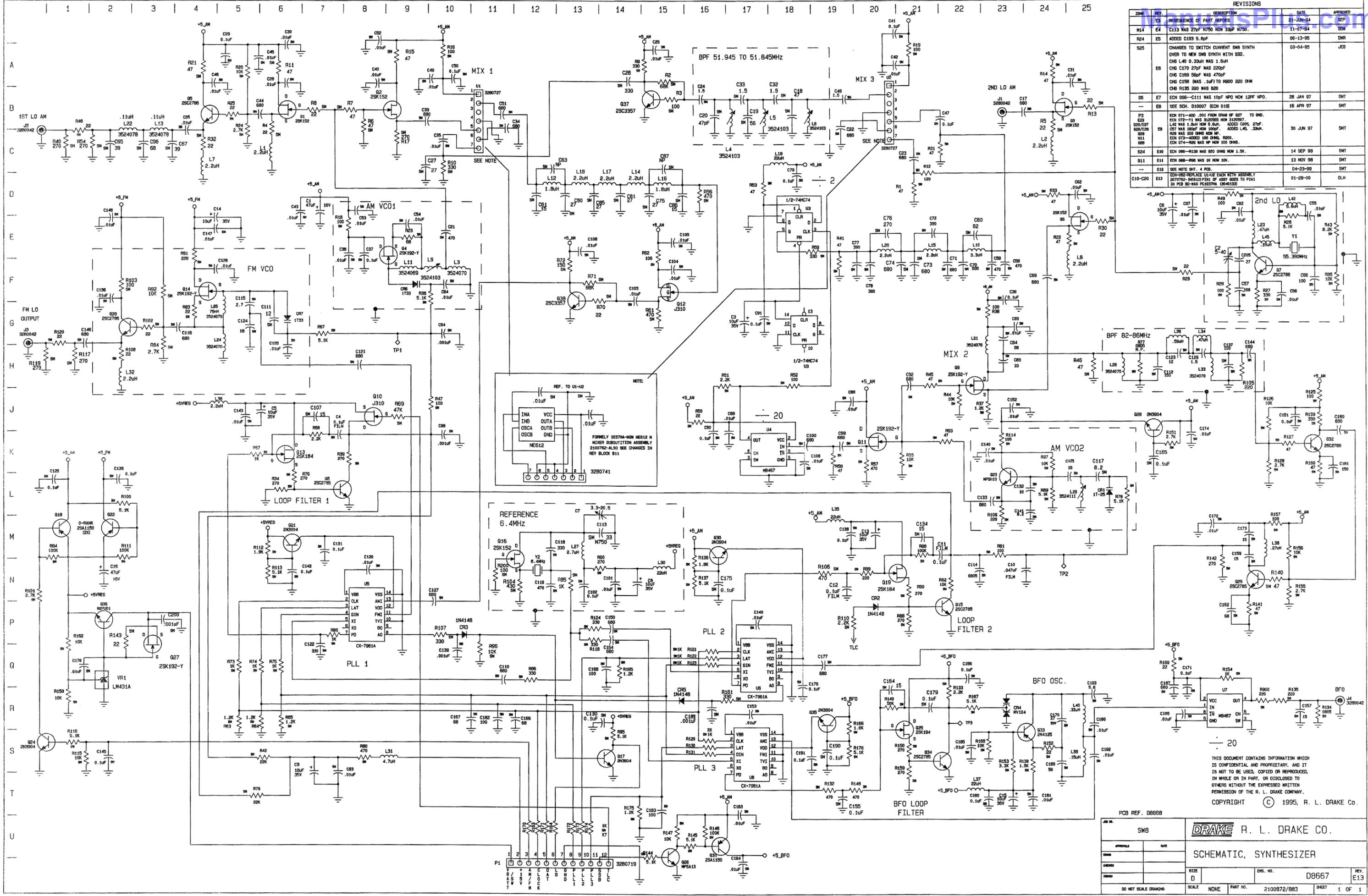
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A	PROTOTYPE ONLY.	03-21-95	DMR
--	A1	PROTOTYPE ONLY.	05-10-95	DMR
--	B	RELEASED TO PRODUCTION.	06-07-95	DMR
E7, E8	C	RELOCATED R1 & C5. CHG R1 TO VERTICAL STYLE.	02-19-96	DMR
--	C1	C3-C4-C6-C7-C9 WERE 1000PF 5% NOW 1000PF 2 %.	07-02-96	SMT
F5, F9	C2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



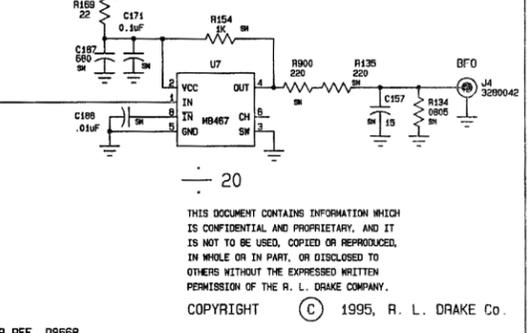
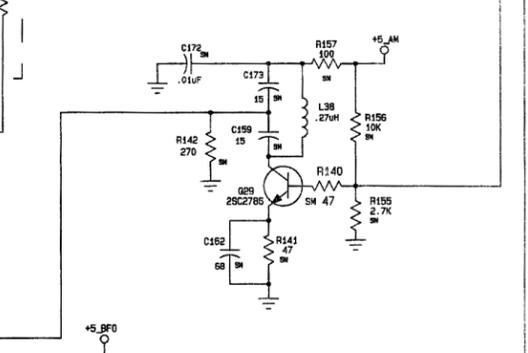
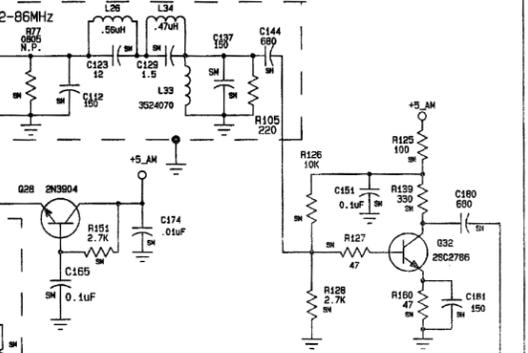
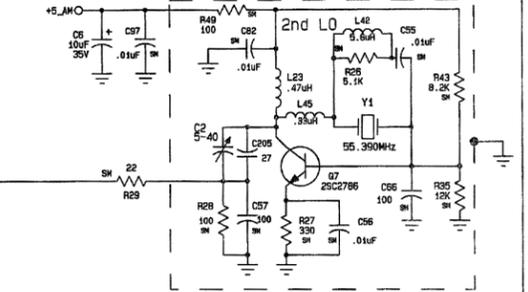
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SEE DRAWING D9655 FOR MULTIPLE LAYOUT INFORMATION.  
 ASSEMBLY PARTS, TOP SIDE VIEW.

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	03-20-95		
DO NOT SCALE DRAWING		CHECKED			
		ISSUED		SIZE C	DWG. NO. 9625
				SCALE 2:1	PART NO. 2100885
					SHEET 4 OF 5



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
E3	E3	RESEQUENCE OF PART REFRES	21-JUN-94	DEP
M14	E4	C113 WAS 27PF N750 NOW 33PF N750.	11-07-94	SDW
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 (MKS .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 DRAM OF G27 TO END. ECH 072-Y1 WAS 3280605 NOW 3128067. L42 WAS 1.6UH NOW 5.6UH. ADDED C205 270F. C27 WAS 1500F NOW 1000F. R28 WAS 100 OHMS NOW 100F. ECH 073-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 088-R266 WAS 1K NOW 10K.	13 NOV 98	SMT
E12	E12	SEE NOTE SHIT. 4 PCB.	04-23-99	SMT
C10-C20	E13	ECH-089-REPLACE U1-12 EACH WITH ASSEMBLY 2070782-NE812 PIN1 OF ASSY GOES TO PIN1 IN PCB BO-MAS PC2037A. 0345133	01-28-00	DLH



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

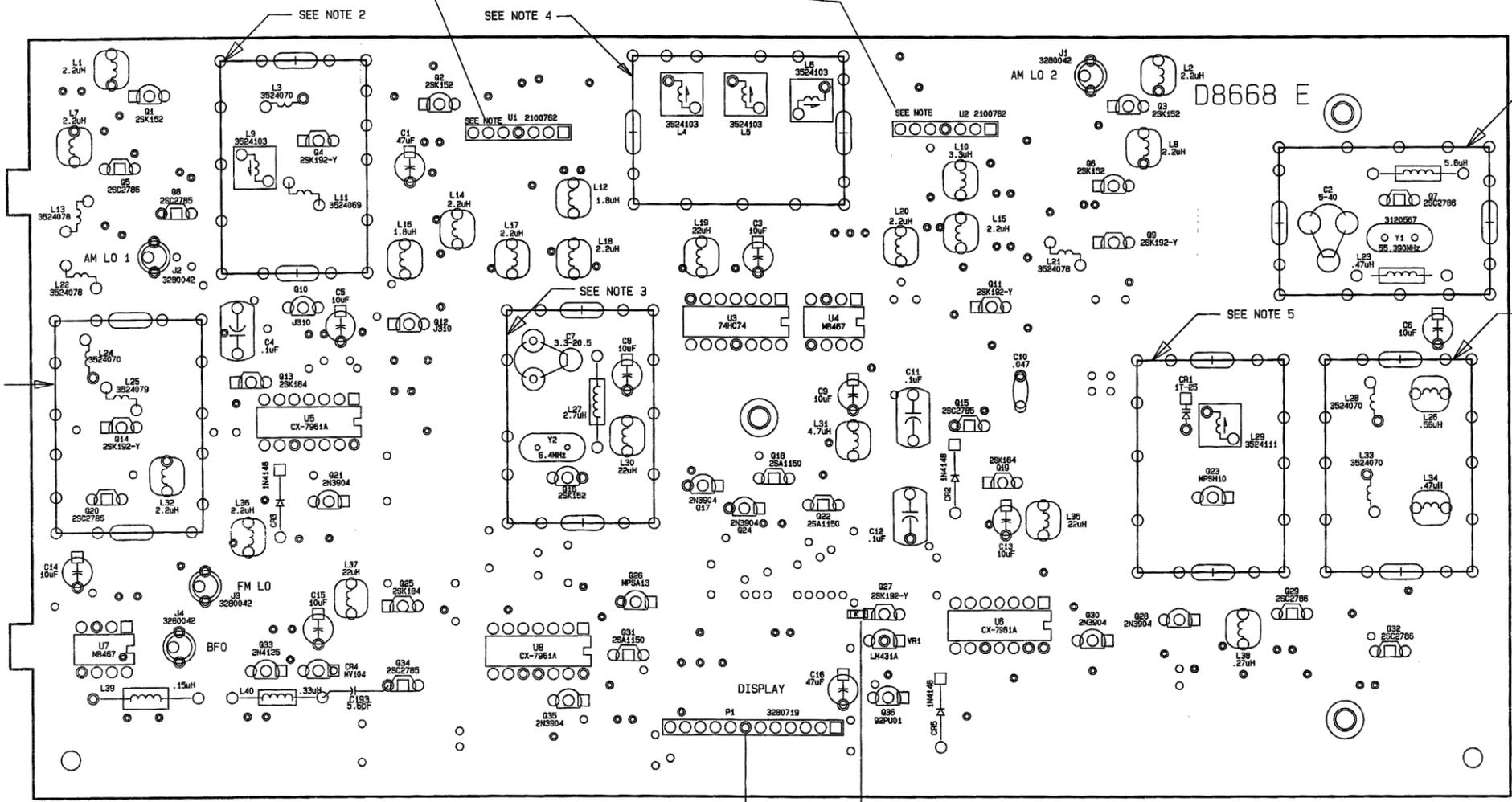
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NOTE:

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.



SEE NOTE 1

SEE NOTE 2

SEE NOTE 4

SEE NOTE U1 2100762

SEE NOTE U2 2100762

SEE NOTE 3

SEE NOTE 5

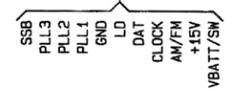
SEE NOTE 6

SEE NOTE 7

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.



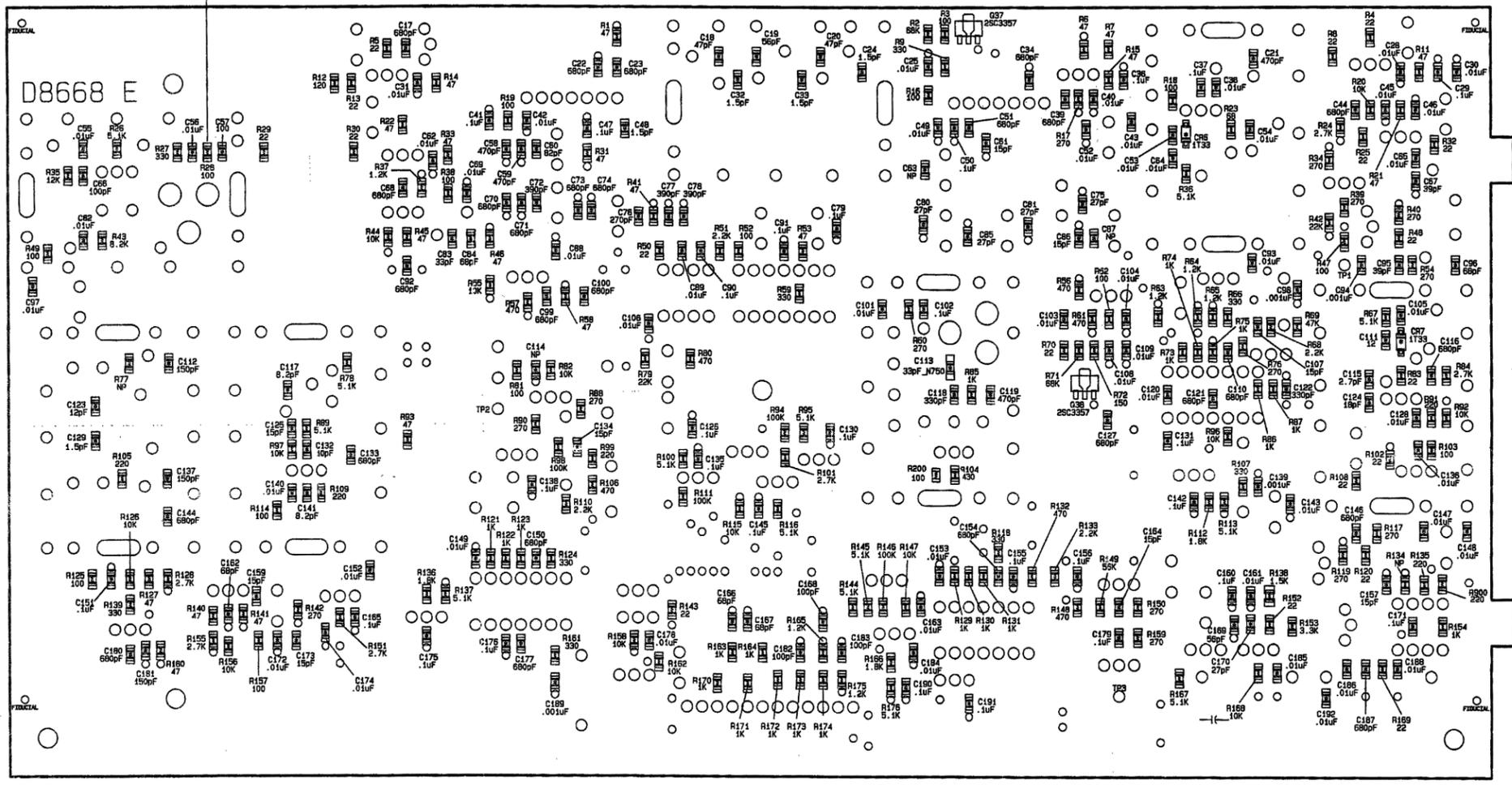
ZONE		REV.	DESCRIPTION	DATE	APPROVED
---		A0	PROTOTYPE ONLY.	08-18-92	JFB
---		A1	PROTOTYPE ONLY.	01-15-93	DMR
---		B	PROTOTYPE	06-04-93	JB
---		C	PROTOTYPE	07-21-94	NM
---		D	PROTOTYPE	09-25-93	NM
---		E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	01-28-94	NM
D13	E1		CHG L60 3524103 WAS 3524069 CHG L77, 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	05-14-95	DMR
M6	E6		CHANGES TO SWITCH CURRENT SWR SYNTH OVER TO NEW SWR SYNTH M/SSD. CHG L40 0.3uH WAS 1.0uH SEE SHEET 5, REMOVED PEELABLE MASK DWG. ADDED 2 SW2 ASSEMBLY DWGS.	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 MAS 1.6uH NOM 5.6uH. Y1 WAS 3120565 NOM 3120567. ALSO SEE SHEETS 3 AND 5 FOR MORE ASSY. INFO.	09-14-98	SMT
---		E10	SEE SHEETS 5 & 7.	11-13-98	SMT
---		E11	SEE SHEET 5.	04-23-99	SMT
D11-13	E12		ADDED SPECIFICATION FOR PROPER ORIENTA- TION OF L4, L5, AND L6.	01-28-00	DLH
08-24	E13		EDN 082-REPLACE U4-U2 EACH WITH ASSEMBLY 2070762 (NE612) WAS 1037HA (3040133)		

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SCHEMATIC REF. D8667		ASSEMBLY PARTS, TOP SIDE VIEW.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		JOB NO. SW8	
MILS ±0.5	DECIMALS ±0.05	APPROVALS	
MATERIAL	FINISH	DATE	01-15-93
DRAWN DMR		CHECKED	
DO NOT SCALE DRAWING		DATE	
DRAWN		DATE	
REV. D		DATE	
SCALE 2:1		PART NO. 2100872/883	
SHEET 4 OF 7		REV. E13	
PCB, SYNTHESIZER			
DWS. NO. 8668			

ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	06-19-92	JFG
--	A1	PROTOTYPE ONLY.	01-15-93	DMR
--	B	PROTOTYPE	06-04-93	JB
--	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 C245 1.5 MAS 10 CHG C212 1.5 MAS 680 CHG R189 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 R237 470 MAS 270 SEE SHT 4	3-23-94	DMR
66	E2	R169 5.1K MAS 10K SEE SHT 4	5-28-94	JEB
--	E3	RESEQUENCE OF REDES	22-JUN-94	SEP
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 C158 100 R900 220 OHM CHG R158 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 1800P NOM 1000P. R28 MAS 100 OHMS NOM 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



SEE NOTE 1

NOTES:

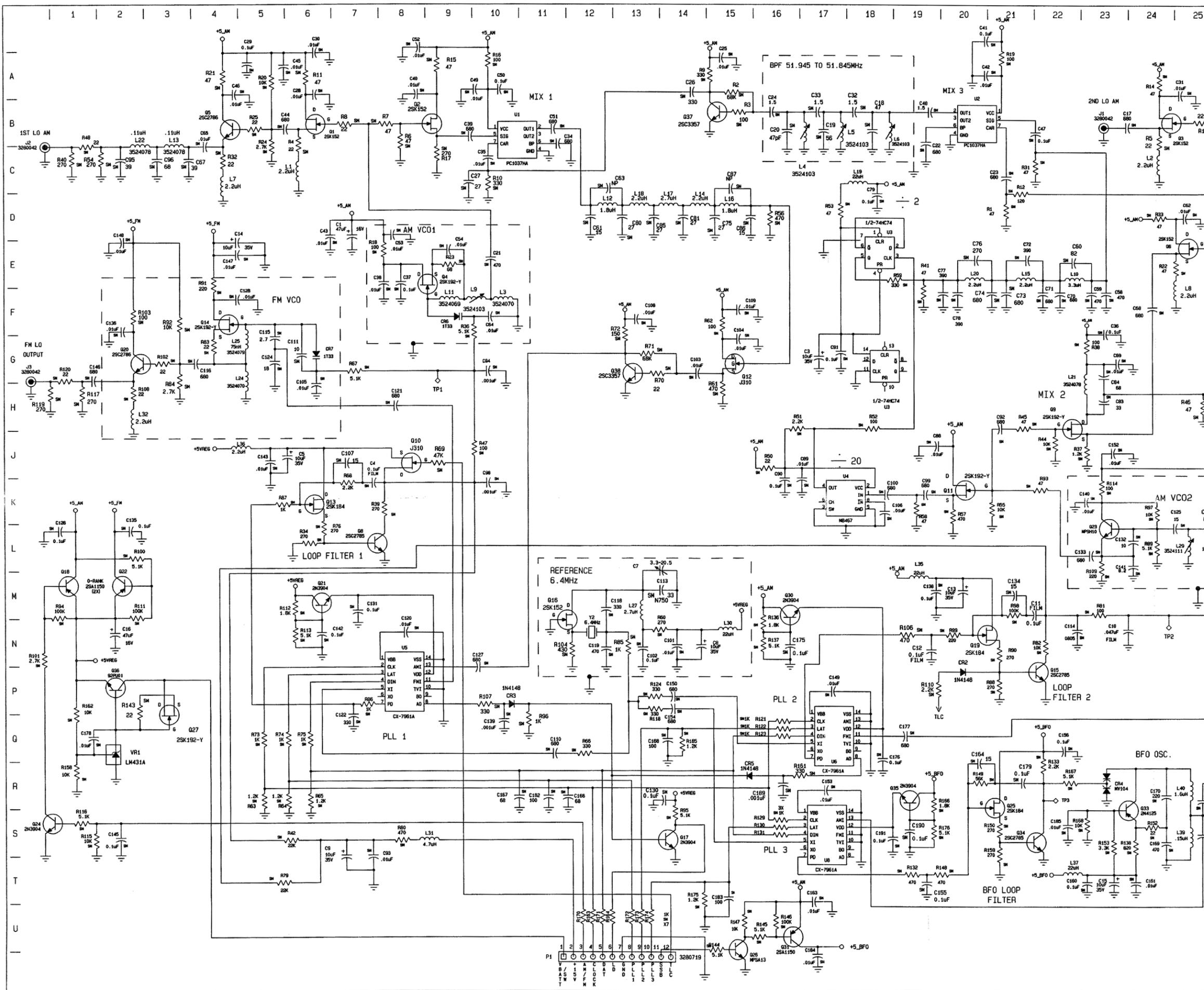
1. REMOVE R28 DURING TEST AS NEEDED.

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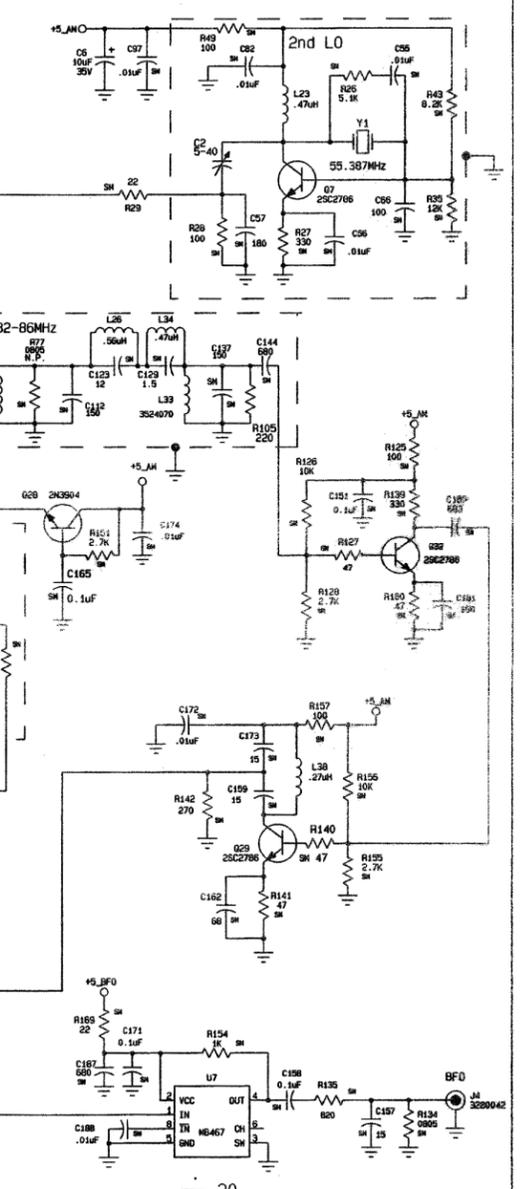
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SCHMATIC REF. D8668 PARTS, BOTTOM SIDE VIEW.

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:</small> MILS DECIMALS ANGLES +/- .005 +/- .1	DRN SWB APPROVALS DMR 01-15-93 DATE	<b>DRAKE</b> R. L. DRAKE CO. PCB, SYNTHESIZER
MATERIAL FINISH DO NOT SCALE DRAWING	SIZE D DWG. NO. 8668 REV. E13	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 18 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 WAS 22 CHG C209 1.5 WAS 10 CHG C212 1.5 MAS 680 CHG C240 47 MAS 130 CHG L60 3524103 MAS 3524069	3-22-94	CMP
	E2	CHG R169 5.1K MAS 10K CHG C148 5-40PF MAS 3.3-20.5PF DEL L38 1.6uH DEL C144 27PF	5-20-94	JEB
	E3	RESELECTION OF PART REFS	21-JUN-94	SEP
	E4	C113 WAS 27PF N750 NOW 33PF N750.	11-07-94	SNW



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DO NOT SCALE DRAWING

SCALE NONE PART NO. 2100872 SHEET 1 OF 1

PCB REF. DB668

SW8

**DRAKE** R. L. DRAKE CO.

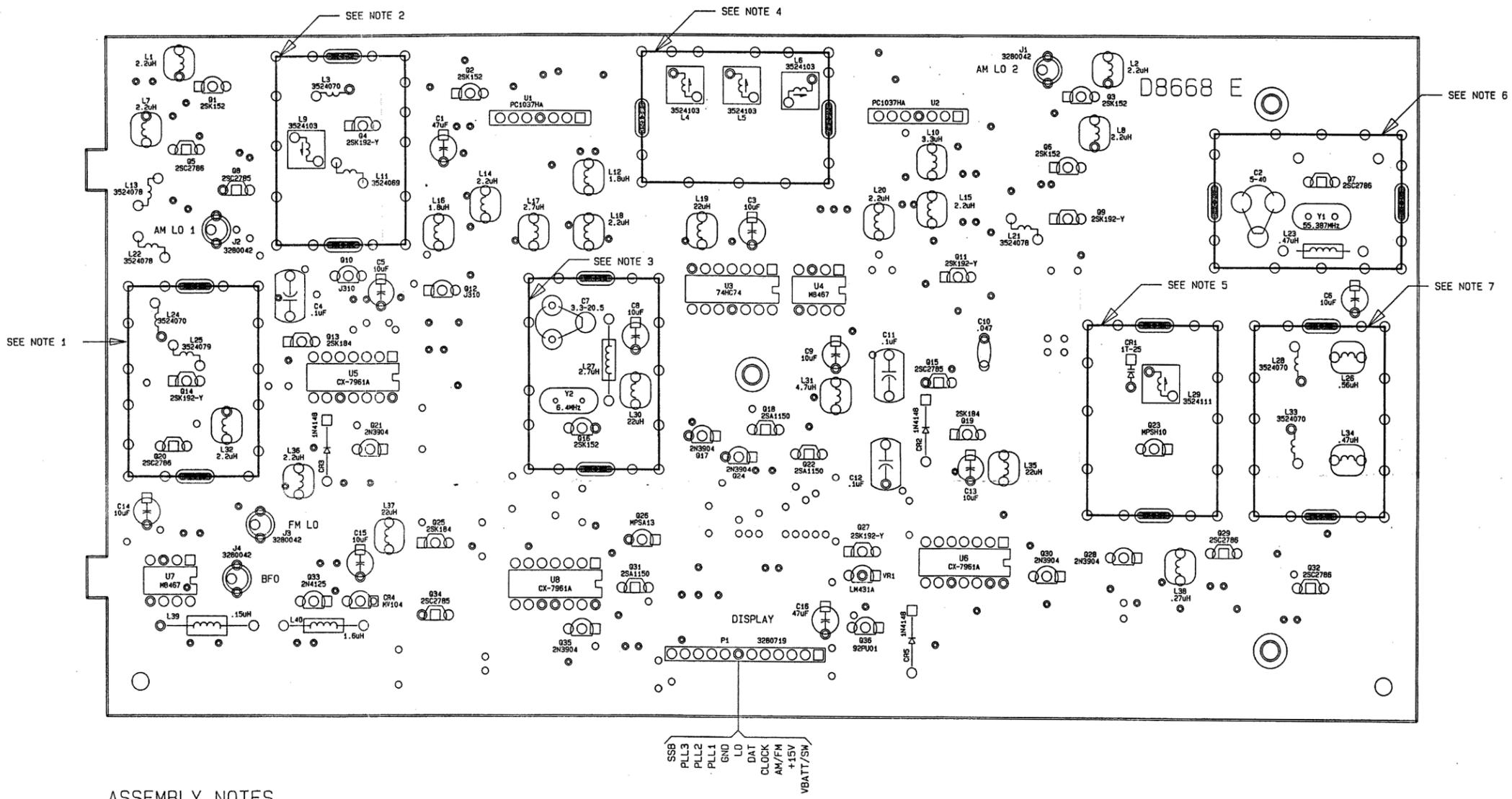
SCHMATIC, SYNTHESIZER

SIZE D

DB667

DB667

REVISONS				
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	CHG L60 3524103 WAS 3524069 CHG L77, L78 1.0uH WERE 1.2uH CHG L79 2.2 uH WAS 2.7uH SEE SHT 5 ADD CN1 AROUND L60 CHG SHIELD BOTTOM SIDE IN NOTE 1 WAS 4561560	3-23-94	OMP
E21 F20	E2	DEL L36 1.8 uH C14R 5-40 WAS 3.3-20 SEE SHT 5	5-28-94	JEB
--	E3	RESEQUENCE OF REFS	22-JUN-94	SEP



ASSEMBLY NOTES

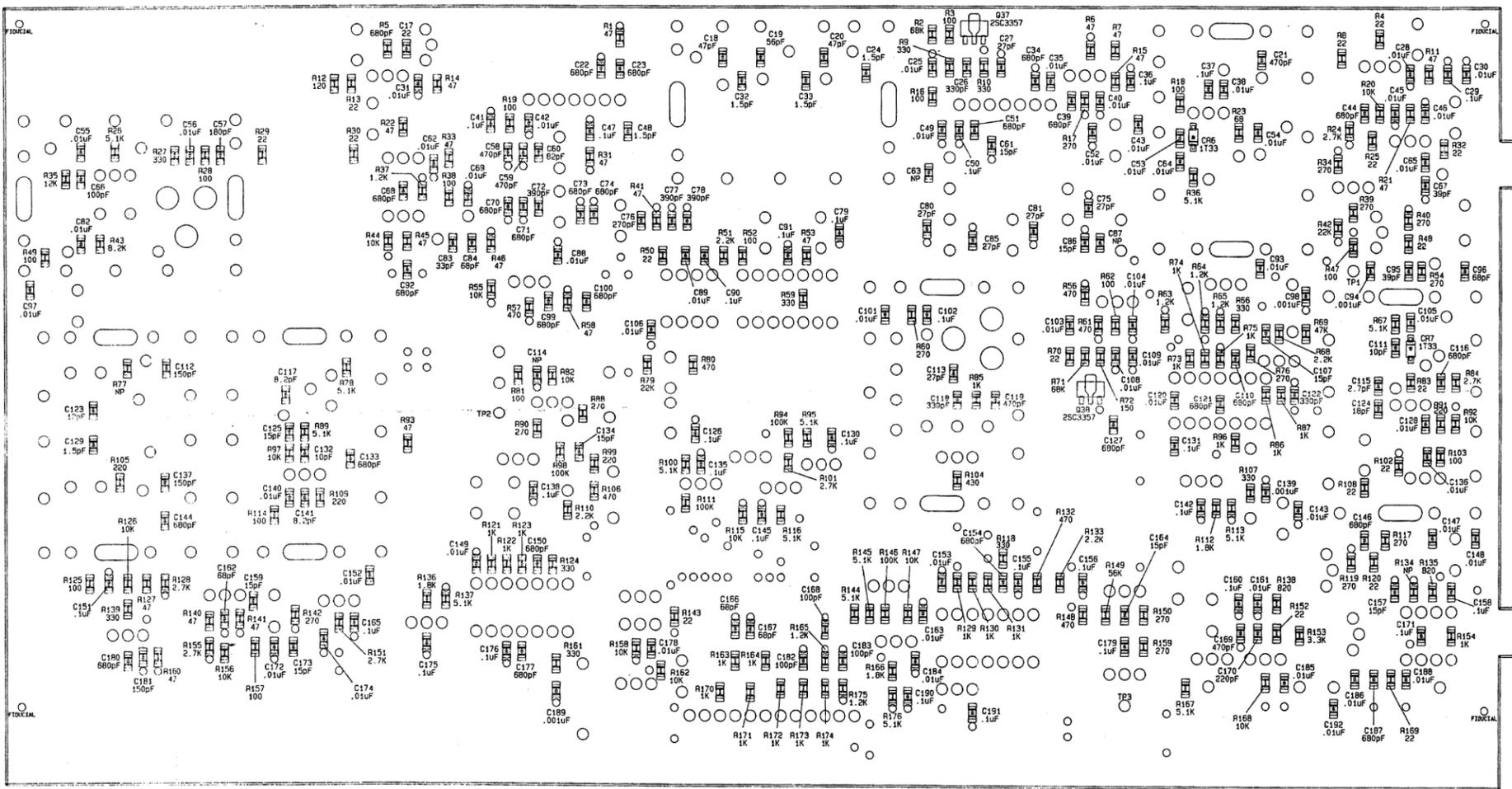
1. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
2. INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
3. INSTALL SHIELD BOTTOM SIDE 4561561, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE 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.

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SCHEMATIC REF. D8667		ASSEMBLY PARTS, TOP SIDE VIEW.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1/16 1/32 1/64 1/16 1/32 1/64		JOB NO. SW8	
MATERIAL		APPROVALS	DATE
FINISH		DMR	01-15-93
DO NOT SCALE DRAWING		PCB, SYNTHESIZER	
		SIZE	DWG. NO. 8668
		SCALE 2:1	PART NO. 2100872
		REV. E3	
		SHEET 4 OF 8	

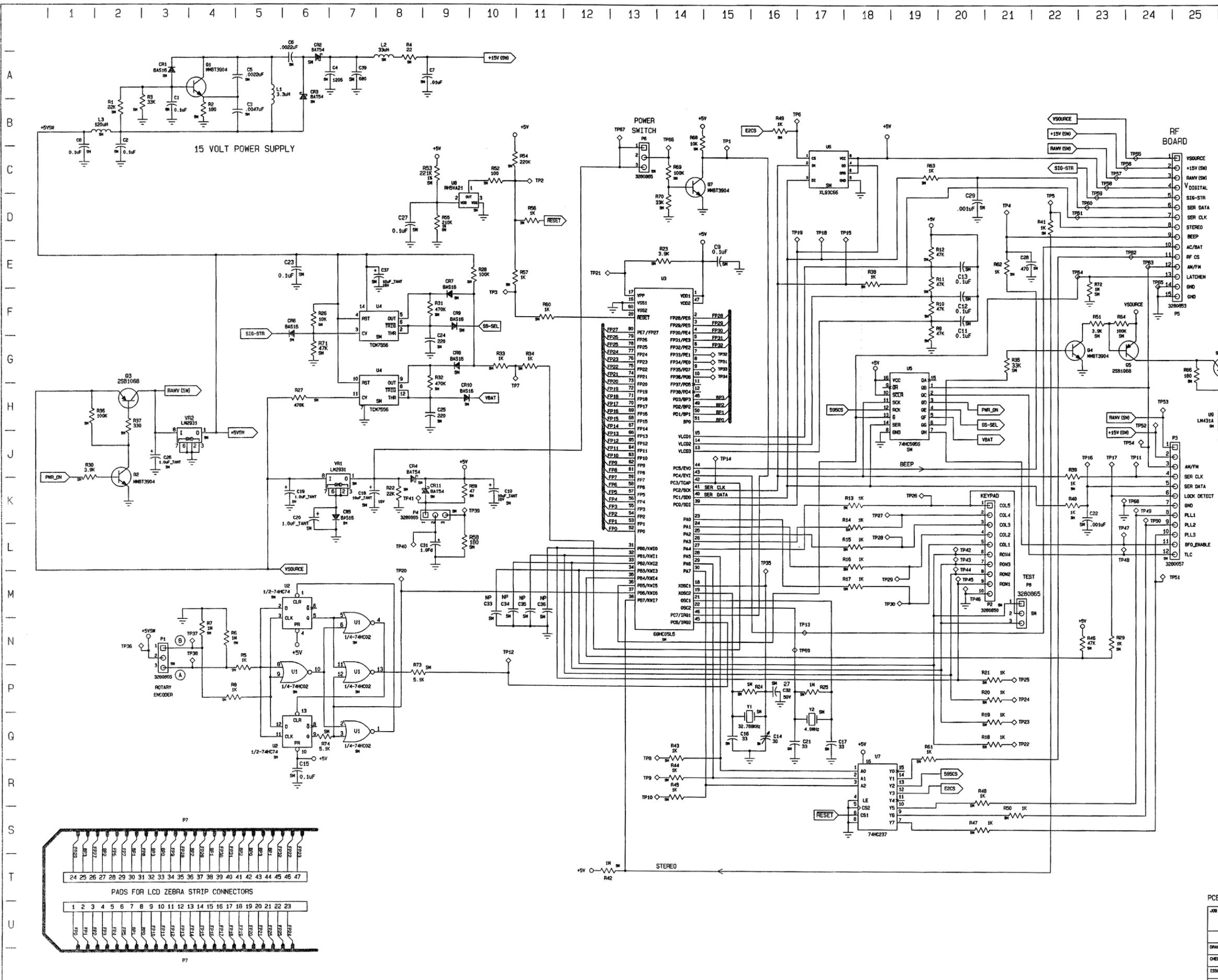
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	09-18-92	JFG
--	A1	PROTOTYPE ONLY.	01-15-93	DMR
--	B	PROTOTYPE	05-04-93	JG
--	C	PROTOTYPE	07-21-94	MM
--	D	PROTOTYPE	08-25-93	MM
--	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	1-28-94	MM
F14 F17 F18 F19 G19 H20	E1	CHG C240 47 WAS 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 SHT 4	3-23-94	CMF
B6	E2	R169 5.1K WAS 10K SEE SHT 4	5-28-94	JCB
--	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	REV. E3
MATERIAL	DRAWN	DMR 01-15-93	PCB, SYNTHESIZER
FINISH	CHECKED		SIZE D
DO NOT SCALE DRAWING	ISSUED		DWG. NO. 8668
			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 ADD C37 10UF 5M ADD C33, C34, C35 & C36 100PF 5M	10-12-93	ELE
N3	C	ADDED R174 5.1K AND R73 5.1K ADDED P7 P/N 3280959 ADDED TP 31 THRU 69	12-3-93	NAM
C19	D	CONNECTED U6-6 TO +5V MAS GND.	3-1-94	NAM
L13	D1	CHG C33-C35 0805 WAS 100PF REPLACE C32 100PF WITH 27PF CHG C39 820F MAS 0805 CHG C4 0805 MAS 47UF	3-21-94	NAM
A7	D2	CHG C39 680PF WAS 68PF	13 APR 94	NAM
--	D3	+5V 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.

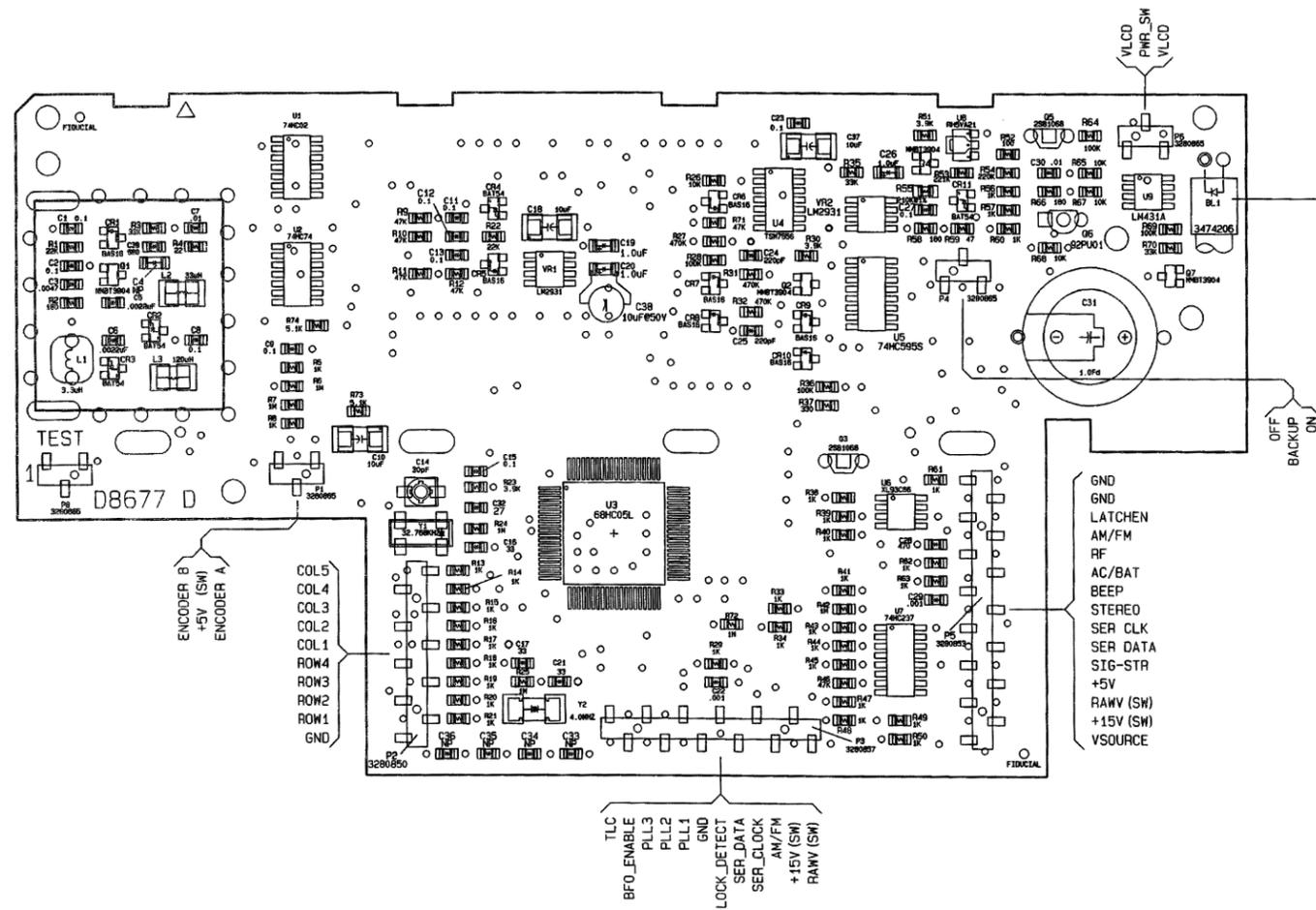
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PCB REF DB677

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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			

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 06 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 WAS 3474205. FOR NEW STYLE, 3474206. SEE NOTES THIS SHEET AND SHEET 3.	07 JUN 99	SMT



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.

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		JOB NO. SWB		DATE 09-03-92		APPROVALS LEG		DRAWN LEG		MATERIAL PCB, FRONT PANEL	
MATERIAL	FINISH	SCALE	SIZE	DOG. NO.	REV.	PART NO.		SHEET		4 OF 5	
DO NOT SCALE DRAWING		2:1	D	8677	D7	2100870					

SCH REF D8659 ASSEMBLY PARTS, TOP SIDE VIEW.

**DRAKE** R. L. DRAKE CO.

PCB, FRONT PANEL

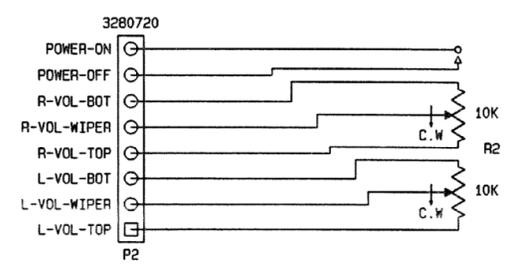
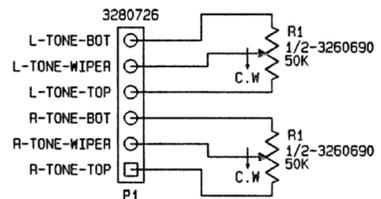
SIZE D DOG. NO. 8677 REV. D7

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

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

A  
B  
C  
D  
E  
F  
G  
H  
J  
K  
L  
M  
N  
P

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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PCB REF: C8837

JOB NO. SW8		<b>DRAKE</b> 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				

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

A

B

C

D

E

F

G

H

J

K

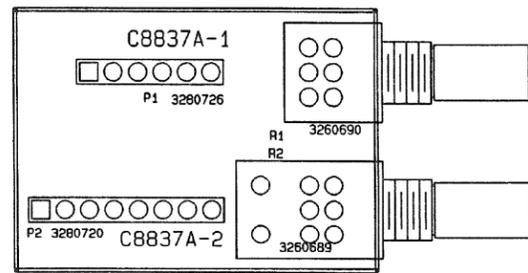
L

M

N

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	PCB, ON/OFF, VOLUME, TONE CTL.	
DRAWN EDB	12-22-98			
CHECKED				
MATERIAL	ISSUED	SIZE C	DWG. NO. C8837	REV. A1
FINISH		SCALE 2: 1	PART NO 2100955/2100960	SHEET 4 OF 4
DO NOT SCALE DRAWING				

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

A

B

C

D

E

F

G

H

J

K

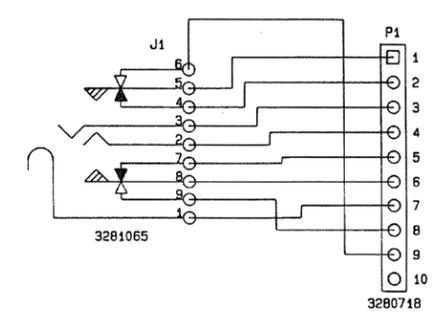
L

M

N

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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					

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

A

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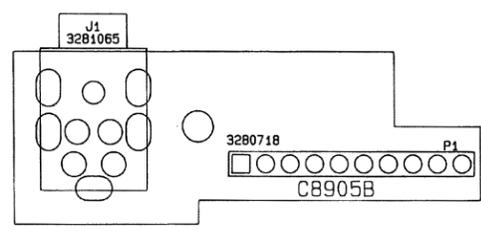
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A0	NEW DRAWING.	01-05-93	LEG
F7	B	EDGE DIMENTION WAS 1.650", MOVED CIRCUIT ON SOLDER SIDE.	01-05-93	RAD



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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		<b>DRAKE</b> R. L. DRAKE CO.	
	APPROVALS	DATE		
MATERIAL	DRAWN LEG	1-5-93	PCB, STEREO HEADPHONE JACK	
FINISH	CHECKED		SIZE C	DWG. NO. 8905
	ISSUED		SCALE 2:1	PART NO. 2100950
DO NOT SCALE DRAWING			SHEET 4 OF 6	REV. B