

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

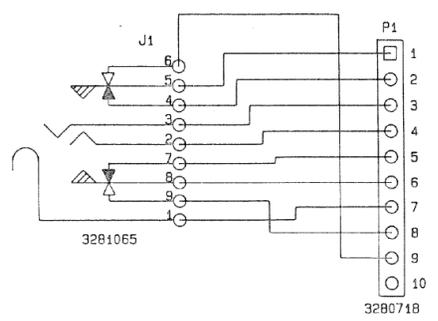
ASSEMBLY PARTS, TOP SIDE VIEW.

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

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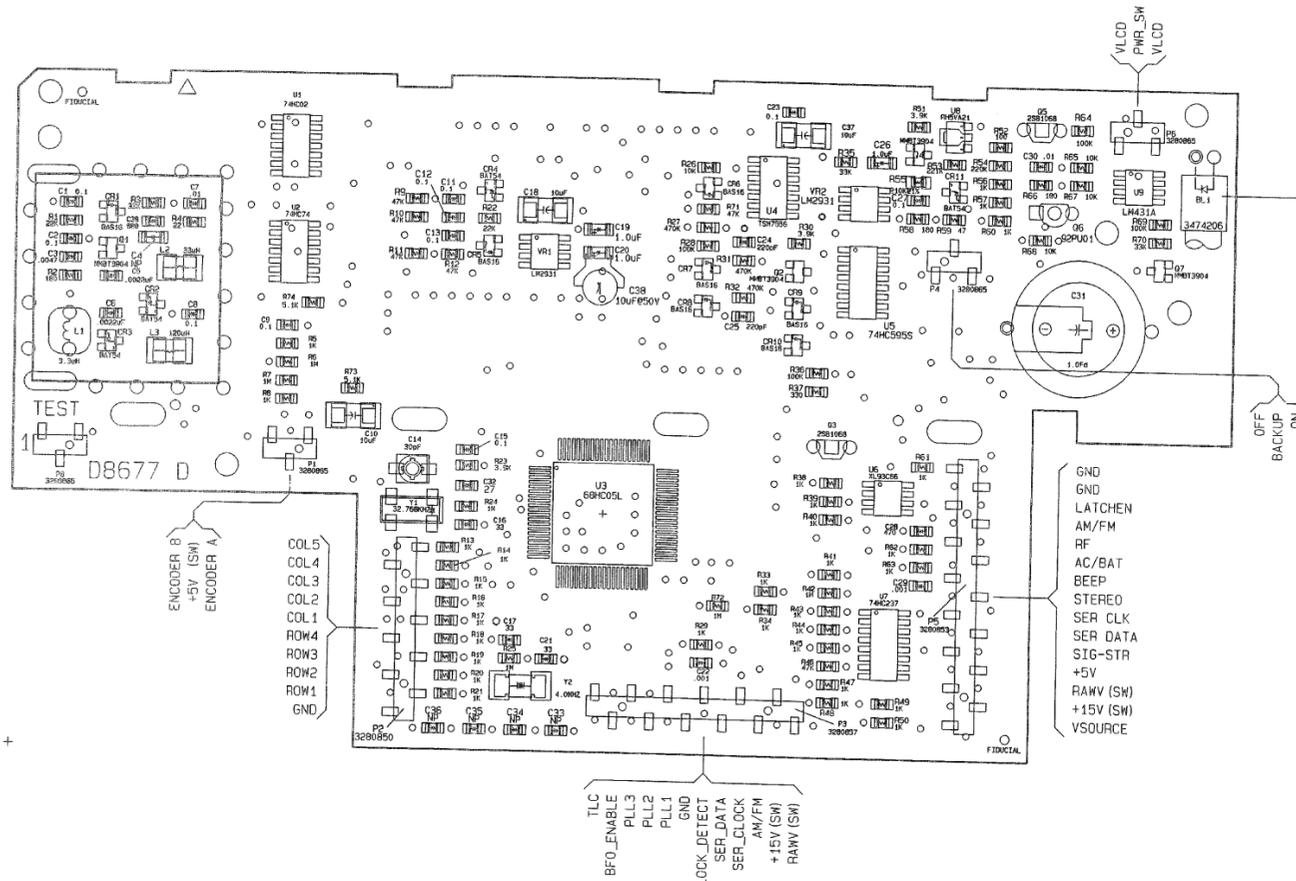
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	B	REDRAWN	25 AUG 93	RAD



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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	09-03-92	LEG
--	A1	PROTOTYPE ONLY.	02-09-93	DWR
--	B	PROTOTYPE ONLY.	06-01-93	DWR
--	B1	CHANGED SOLDER MASK AROUND US. CHANGED SOLDER MASK TYPE TO DRY FILM.	27 AUG 93	RAD
G11 M11 M8	B2	ADD R71 47K ADD R72 1K ADD C25 100P CHG R35 33K WAS 3.9K CHG R51 3.9K WAS 180 CHG R62 1K WAS 220K CHG R64 100K WAS 20K CHG 06 S2P101 WAS WPC405	9-15-93	DWP
F13 M9	B3	CHG VR2 LN2931 WAS 78L05 ADD C37 100F (TH) ADD C33, C34, C35 AND C36 100PF (TH)	10-13-93	ELE
E16 L14 M9	B4	UPDATE NET NAMES ON P3. UPDATED NET NAMES ON P3. ADDED TLC NET NAME ON P3.	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 (0.019 DIA.) CONNECTED U6-5 TO +5V WAS GND. MIGGED TOP SIDE TRACE AWAY FROM MOUNTING HOLE	3-1-94	MAN
H8	D1	CHG C23-C28 0805 WAS 100PF REPLACED C32 100PF WITH 270F CHG C39 680F WAS 0805 CHG C4 0805 WAS .47UF	3-24-94	MAN
G5	D2	CHG C39 680PF WAS 680F	4-13-94	MAN
--	D3	SEE SHEET 1.	7-26-94	KEF
--	D4	ADDED SHEET 8	08 DEC 94	RAD
H10	D5	ECN 075--ADDED C38 GRAPPE	24 SEP 97	DWR
F14	D6	ECN 081--R55 WAS 200K 1% NOM 210K 1%.	15 JUN 98	SMT
F17	D7	ECN 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.

- GND
- LATCHEN
- AM/FM
- RF
- AC/BAT
- BEEP
- STEREO
- SER CLK
- SER DATA
- SIG-STR
- +5V
- RAWV (SW)
- +15V (SW)
- VSOURCE

- TLC
- BFO_ENABLE
- PLL3
- PLL2
- PLL1
- GND
- LOCK_DETECT
- SER_DATA
- SER_CLOCK
- AM/FM
- +15V (SW)
- RAWV (SW)

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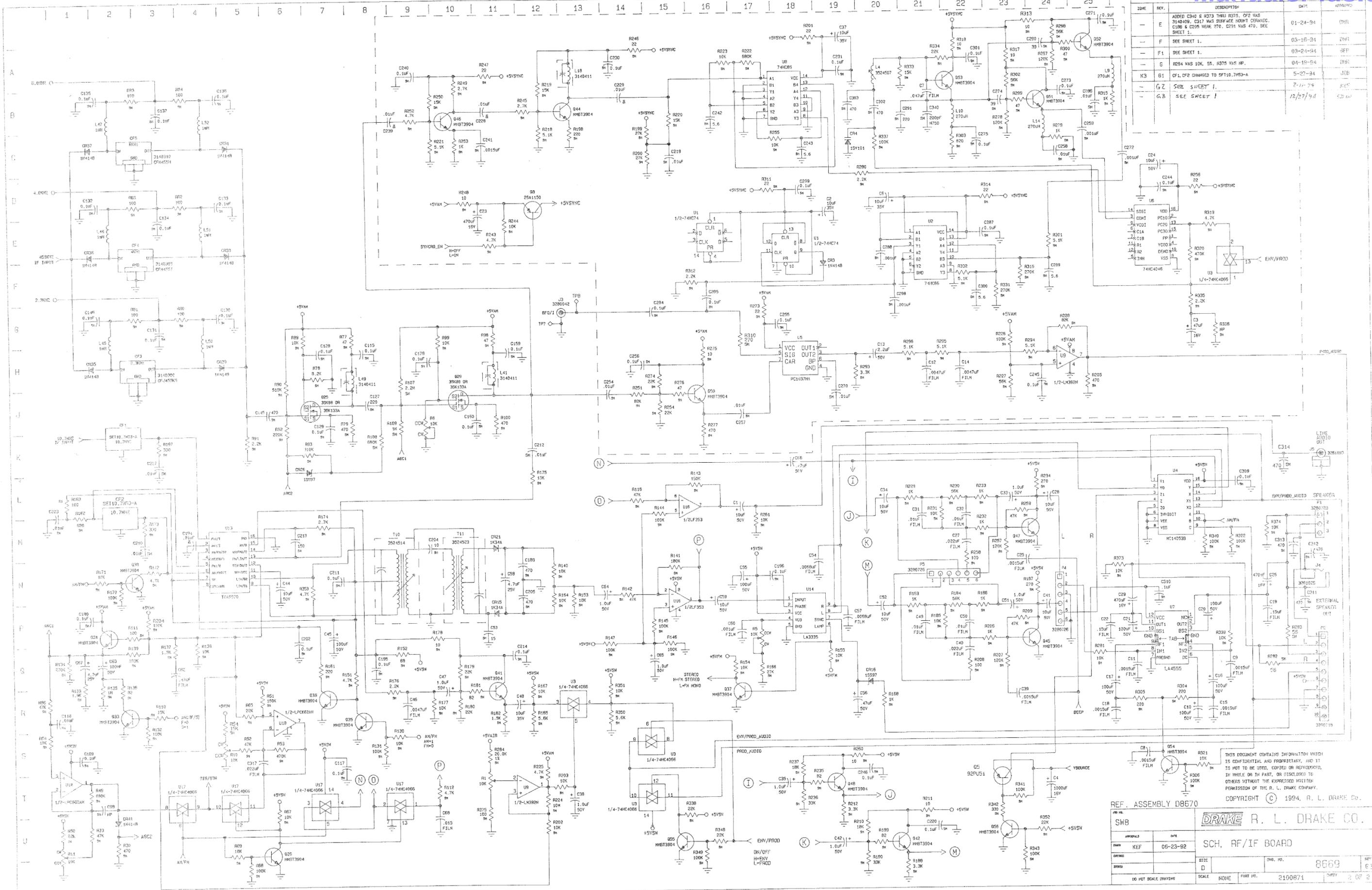
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		JOB NO. SWB		ASSEMBLY PARTS, TOP SIDE VIEW.	
MILS	DECIMALS	DRAWN LEG		DATE 09-03-92	
±.1	±.005	ISSUED		REV. D7	
DO NOT SCALE DRAWING		SCALE 2:1		PART NO. 2100B70 SHEET 4 OF 5	
		APPROVALS		DATE	
		DRAWN LEG		DATE 09-03-92	
		ISSUED		DATE	
		SIZE D		DWG. NO. 8677	
		SCALE 2:1		PART NO. 2100B70 SHEET 4 OF 5	

DRAKE R. L. DRAKE CO.

PCB, FRONT PANEL

SIZE D

SCALE 2:1



REV.	DESCRIPTION	DATE	APPROVED
E	ADDED C340 & R373 THRU R375. C32 WAS 3140409. C317 WAS SURFACE MOUNT CERAMIC. C188 & C205 WERE 270. C231 WAS 470. SEE SHEET 1.	01-24-94	DMR
F	SEE SHEET 1.	03-16-94	DMR
F1	SEE SHEET 1.	03-24-94	JEP
G	R284 WAS 10K. C5. R375 WAS NP.	04-19-94	DMR
K3	C71, C72 CHANGED TO SFT10.7MS-A	5-27-94	JEB
G2	SEE SHEET 1.	7-11-94	AKS
G3	SEE SHEET 1.	12/7/94	SDW

REF. ASSEMBLY DB670		DRAKE R. L. DRAKE CO.	
REV. NO.	SN8	DATE	06-23-92
APP'D	KEF	BY	DMR
CHK'D		DATE	8669
DRWN		REV. NO.	63
DO NOT SCALE DRAWING	SCALE	NONE	PART NO. 2100671
			SHEET 2 OF 2

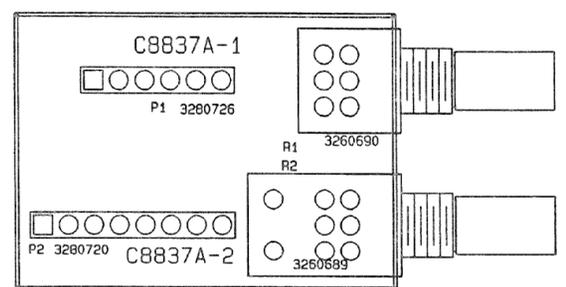
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	BY
--	A	NEW DRAWING.	12-11-92	LEG
--	A1	CHANGED Y DIMENSION TO COMPENSATE FOR SCORING vs ROUTING PCB. ALSO CHANGED TO 310 #.	12-22-98	EDB



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SCH REF: C8836 ASSEMBLY PARTS, TOP SIDE VIEW.

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

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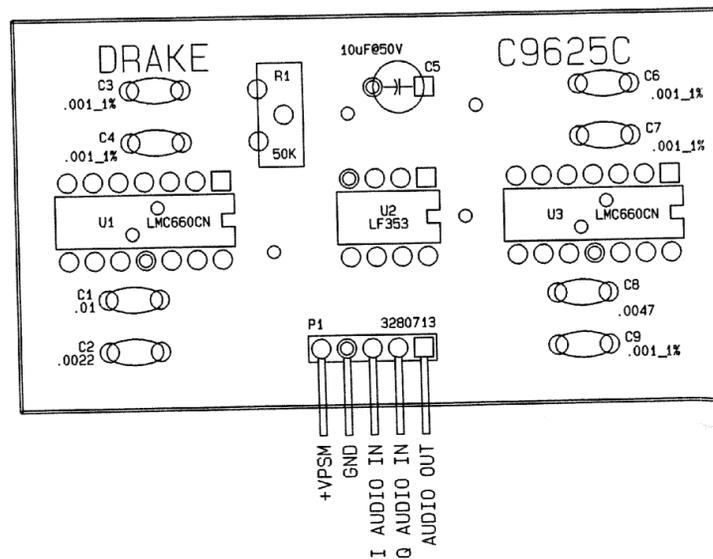
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A	PROTOTYPE ONLY.	03-21-95	DMR
--	A1	PROTOTYPE ONLY.	05-10-95	DMR
--	B	RELEASED TO PRODUCTION.	06-07-95	DMR
E7, E8	C	RELOCATED R1 & C5. CHG R1 TO VERTICAL STYLE.	02-19-96	DMR
--	C1	C3-C4-C6-C7-C9 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.

SCH REF C9624		USED ON SWB, R8A		DRAKE R. L. DRAKE CO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE: MILS +/- 5 DECIMALS +/- .005 ANGLES +/- 1		APPROVALS	DATE	PCB, PHASE SHIFT MODULE	
MATERIAL	DRAWN DMR	03-20-95	SIZE C	DWG. NO. 9625	REV. C2
FINISH	CHECKED		SCALE 2: 1	PART NO. 2100885	SHEET 4 OF 5
DO NOT SCALE DRAWING		ISSUED			

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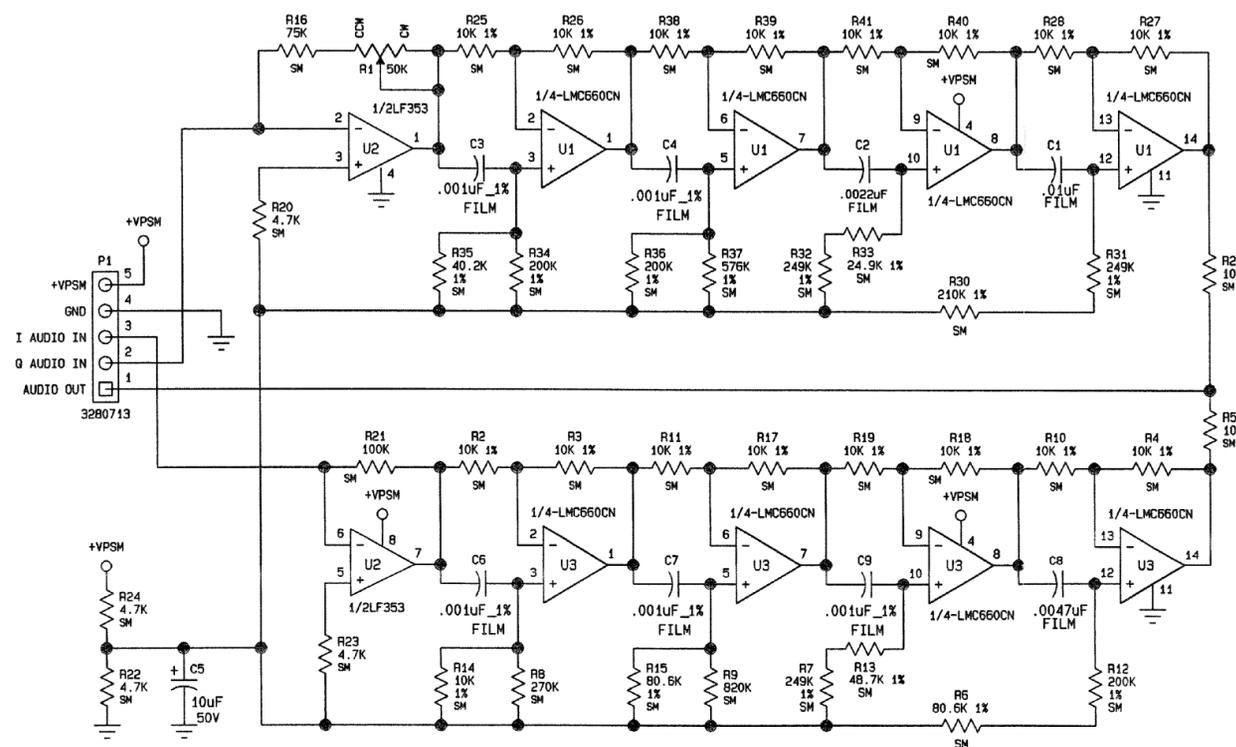
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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
--	A	NEW DRAWING	03-20-95	DMR
--	A1	PROTOTYPE ONLY.	05-10-95	DMR
--	B	RELEASED TO PRODUCTION.	06-07-95	DMR
--	C	CHG POT R1 TO VERTICAL TYPE.	02-19-96	DMR
--	C1	C3-C4-C6-C7-C9 WERE 5% 1000pF NOW 2% 1000pF.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

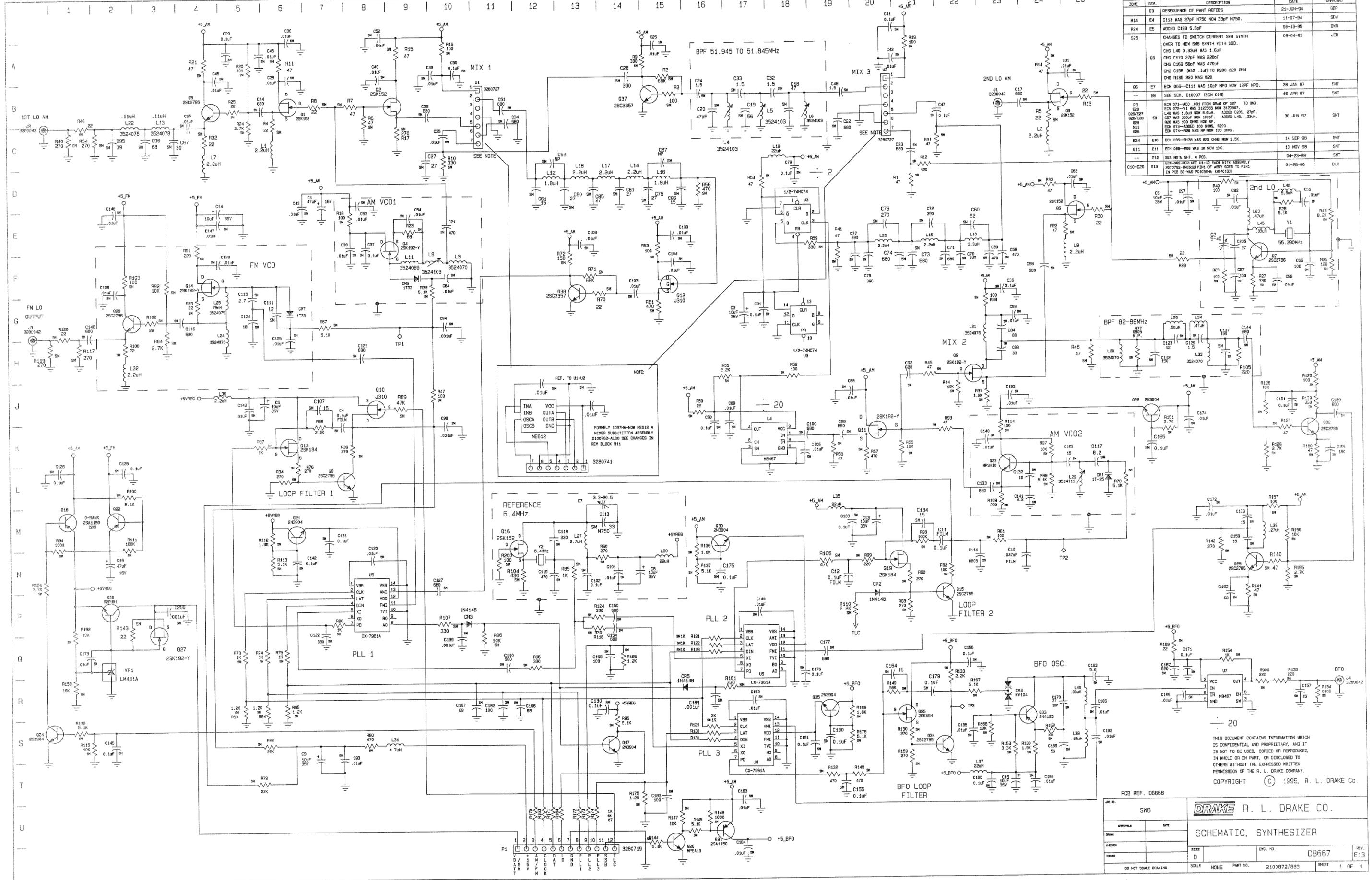


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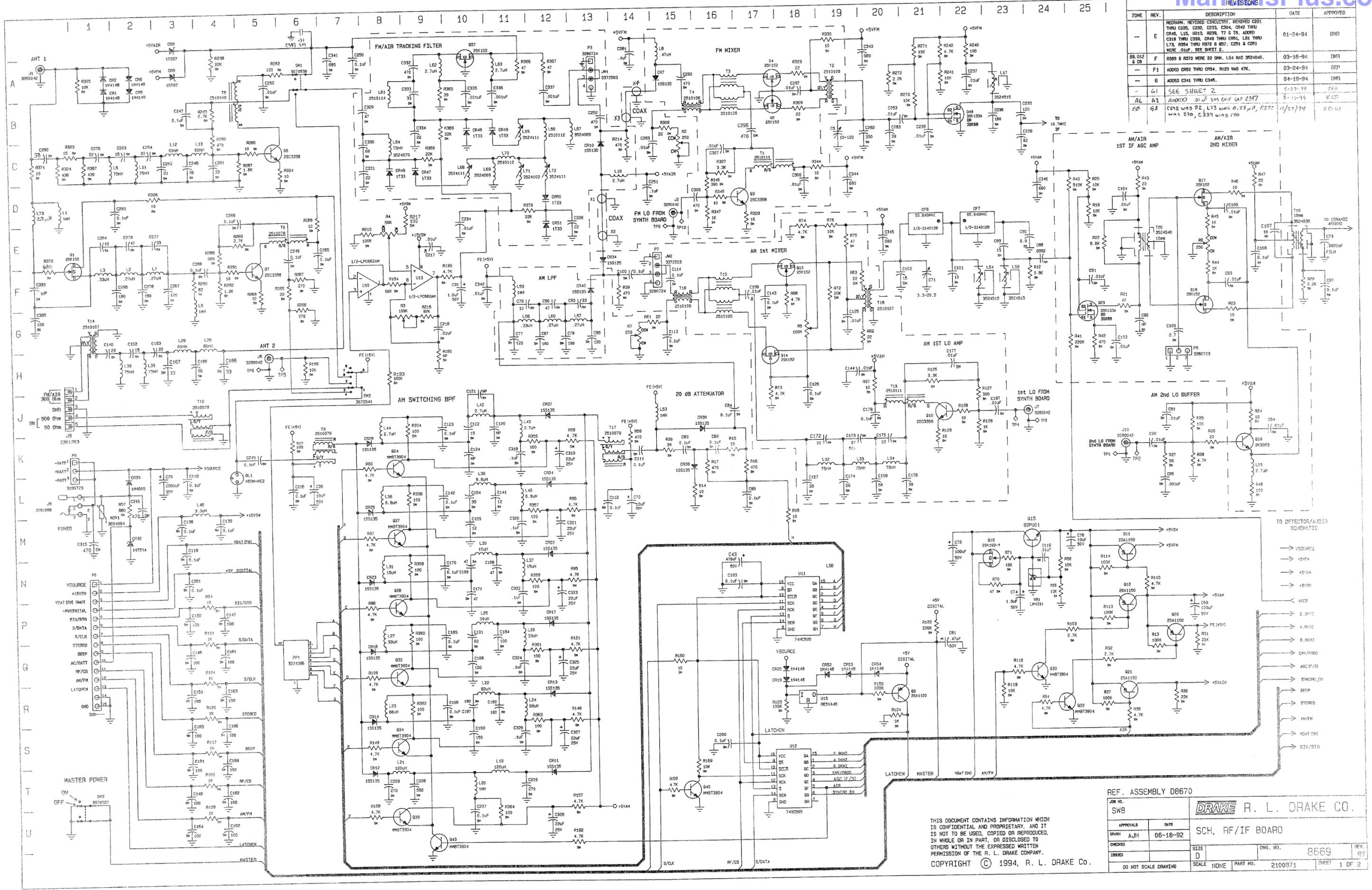
PCB REF C9625

USED ON SW8, R8A		DRAKE R. L. DRAKE CO.		
APPROVALS	DATE	SCH, PHASE SHIFT MODULE		
DRWN DMR	03-20-95			
CHECKED		SIZE C	DWG. NO. 9624	REV. C2
ISSUED		SCALE NONE	PART NO. 2100885	SHEET 1 OF 1

ZONE	REV.	DESCRIPTION	DATE	APPROVED
E3	E3	REVISION OF PART REFRES	21-JUN-94	GEP
M14	E4	C113 WAS 270P N750 NOW 330P N750.	11-07-94	SM
R24	E5	ADDED C193 5.6P	06-13-95	DNR
S25	E6	CHANGES TO SWITCH CURRENT SWS SYNTH OVER TO NEW SWS SYNTH WITH SSD. CHS L40 0.35UH WAS 1.5UH CHS C170 270P WAS 220P CHS C169 560P WAS 470P CHS C158 (NAS -1UF) TO R600 220 OHM CHS R135 220 WAS 820	09-04-95	JEB
G6	E7	ECN 006-C111 WAS 100P NPO NOW 12PF NPO.	28 JAN 97	SMT
E8	E8	SEE SCH. D10007 (ECN 018)	16 APR 97	SMT
P3	E9	ECN 071-ADD .001 FROM DRAM OF 807 TO CHD. ECN 070-111 MAS 330P255 NOW 312P267. L43 WAS 1.5UH NOW 5.5UH. ADDCD C905 270P. C27 WAS 1000F NOW 1000F. ADDCD L45 .33UH. R68 WAS 100 OHMS NOW 100 OHMS. ECN 074-ADDSD 180 OHMS R260. ECN 074-R68 WAS NP NOW 100 OHMS.	30 JUN 97	SMT
S24	E10	ECN 086-R138 WAS 820 OHMS NOW 1.5K.	14 SEP 98	SMT
O11	E11	ECN 088-R66 WAS 1K NOW 10K.	13 NOV 98	SMT
E12	E12	SEE NOTE SHIT. 4 PDS.	04-23-99	SMT
C10-C20	E13	ECN 089-REPLACE U1-U5 EACH WITH ASSEMBLY 2070762-NR61531P11 OF ASSY 6053 TO P141 IN PCB 80-WAS PCB573MA (84-4153)	01-29-00	DLH



PCB REF. D8668		JOB NO. SWB		DRAKE R. L. DRAKE CO.	
APPROVALS		DATE		SCHEMATIC, SYNTHESIZER	
SIZE	D	DWG. NO.	D8667	REV.	E13
SCALE	NONE	PART NO.	2100872/883	SHEET	1 OF 1



ZONE	REV.	DESCRIPTION	DATE	APPROVED
E		REDRAN, REVISED CIRCUITRY, REMOVED C221 THRU C225, C232, C233, C234, C242 THRU C245, L15, R215, R238, T7 & T8, ADDED C318 THRU C339, C348 THRU C351, L81 THRU L73, R354 THRU R372 & R57, C251 & C281 WERE DRAFT, SEE SHEET 2	01-24-94	DMR
F		R369 & R370 WERE 22 OHM, L64 WAS 3524048.	03-16-94	DMR
F1		ADDED CR2 THRU CR4.	03-24-94	BEP
6		ADDED C341 THRU C345.	04-19-94	DMR
G1		SEE SHEET 2	5-22-94	DMR
G2		ADDED 01UF 50V CHIP CAP C347	8-11-94	WCP
G3		C292 WAS 92, L73 WAS 0.23UH, R370 WAS 270, C339 WAS 100	12/27/94	SDW

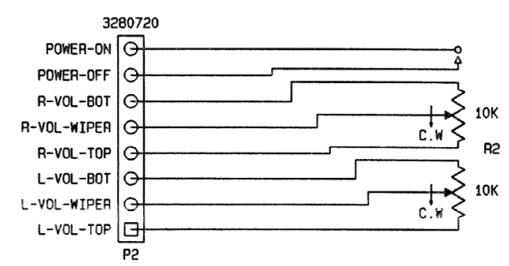
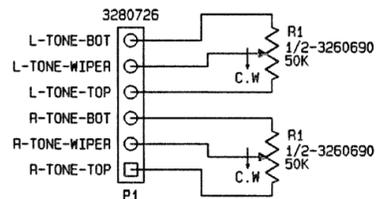
REF. ASSEMBLY D8670		DRAKE R. L. DRAKE CO.	
JOB NO. SW8	DATE 06-18-92	SCH. RF/IF BOARD	
APPROVALS	DATE	SIZE D	ENG. NO. 8669
DRAWN AJH		SCALE NONE	PART NO. 2100871
CHECKED			SHEET 1 OF 2
ISSUED			

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



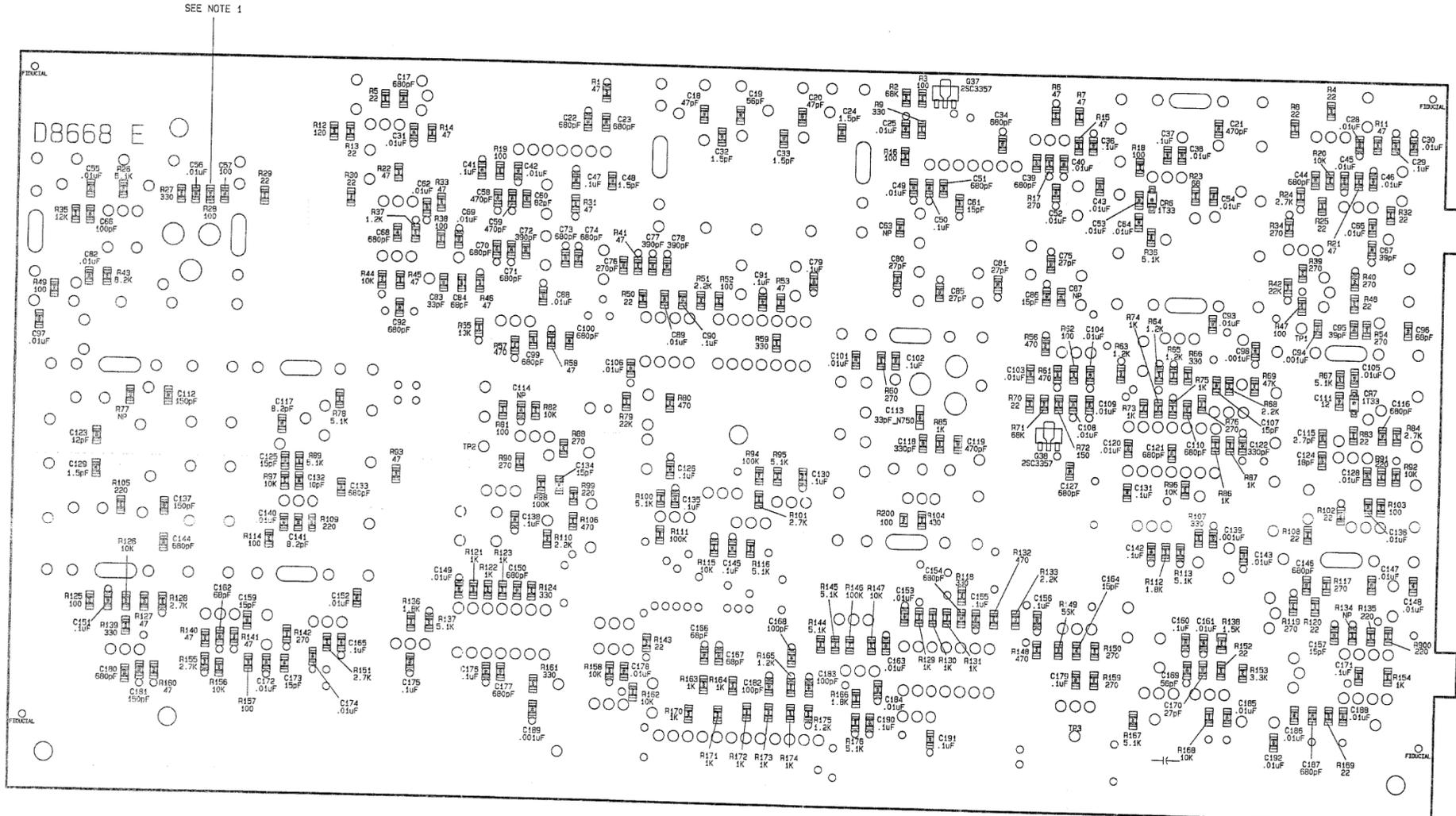
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PCB REF: C8837

JOB NO. SW8		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

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	JS
--	C	PROTOTYPE	07-21-94	NSI
--	D	PROTOTYPE	08-25-93	NSI
--	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	01-29-94	NSI
F14 F17 F18 F19 F17 F19 F20	E1	CHG C240 47 WAS 120 CHG C209 1.5 WAS 10 CHG C219 1.5 WAS 680 CHG R189 100 WAS 22 CHG C277 C289 NP WERE 2.7 CHG C280 C281 27 WERE 18 CHG C293 C294 15 WERE 3.9 CHG R249 470 WAS 330 CHG R237 470 WAS 270 SEE SHT 4	3-23-94	CHP
G6	E2	R169 5.1K WAS 10K SEE SHT 4	5-28-94	JEB
--	E3	RESEQUENCE OF REDES	22-JUN-94	SEP
J17	E4	C113 WAS 270F N750 NOW 330F N750.	11-07-94	SDW
--	E5	SEE SHT 4	06-14-95	DMR
M19 M18 L21 L21	E6	CHG C170 270F WAS 2200F CHG C169 560F WAS 4700F CHG C156 TO R910 220 OHM CHG R156 220 WAS 620 SEE SHEET 4. REMOVED RELEASABLE MASK DWG. ADDED 2 SW2 ASSEMBLY DWGS.	09-04-95/ 04-18-96	JEB/DMR
G21	E7	ECN 066--C111 WAS 10PF NPO NOW 12PF NPO.	28 JAN 97	SMT
--	E8	SEE SHEET 6.	16 APR 97	SMT
E5 E5 K15 E5	E9	ECN 072--C57 WAS 1800F NOW 1000F. R28 WAS 100 OHMS NOW NP. ECN 073-- ADDED 100 OHM CHIP. ECN 074--R28 WAS NP NOW 100 OHMS. ALSO SEE SHEET 3 & 4 FOR MORE ASSY. INFO.	06-30-97	SMT
G21	E10	ECN 086--R138 WAS 820 OHMS NOW 1.5K.	09-14-98	SMT
M14	E11	ECN 088--R66 WAS 1K NOW 10K.	11-13-98	SMT
--	E12	SEE SHEET 4.	04-23-99	SMT
--	E13	SEE SHEET 4.	01-29-00	DLH



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

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SCHMATIC REF. D8667 SMD PARTS, BOTTOM SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS		W/3	W/2	W/1
TOLERANCES ARE:		W/3	W/2	W/1
MATERIAL:		DATE	APPROVALS	
DRAWN: DMR		01-15-93	DATE	
CHECKED:		DATE		
DO NOT SCALE DRAWING		SIZE: D	DWG. NO.: 8668	REV.: E13
		SCALE: 2:1	PART NO.: 2100972/883	SHEET 5 OF 7

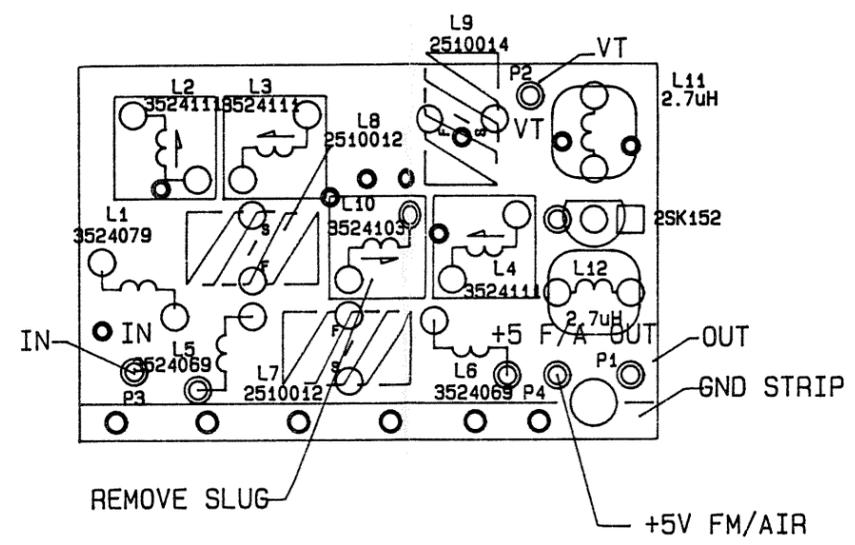
DRAKE R. L. DRAKE CO.

PCB, SYNTHESIZER

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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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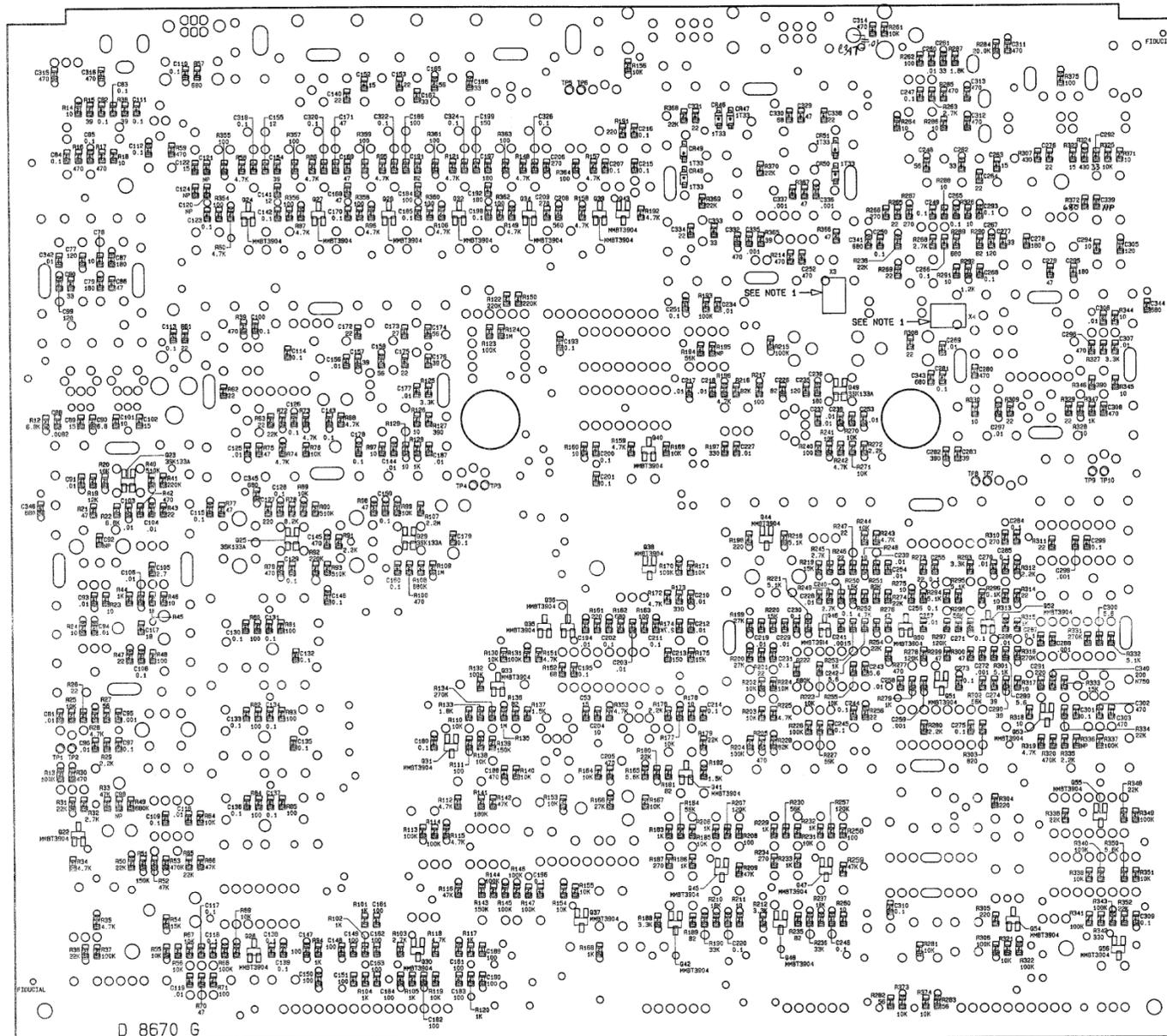
SCHEMATIC REF. C9153

ASSEMBLY PARTS, TOP SIDE VIEW.

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:</small> <small>MILS DECIMALS ANGLES</small> <small>+/- 15 +/- .015 +/- 1</small>	JOB NO. SW8				
	APPROVALS	DATE			
	MATERIAL	DRAWN MAM	10-18-93	PCB, TRACKING FILTER	
	FINISH	CHECKED	ISSUED		
DO NOT SCALE DRAWING			SIZE B	DWG. NO. 9152	REV. B
			SCALE 2:1	PART NO. 2100945	SHEET 4 OF 5

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	E	REDRAWN. REMOVED C221 THRU C225, C232, C233, C304, C302 THRU C305, R213 & R239. ADDED C318, C320, C322, C324, C326, 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	R123 WAS 47K. SEE SHEET 4.	03-24-94	REP
VAR	G	R284 WAS 10K. SW. R276 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.C.F.
D16	G3	ADD 0.01MFD CAP TO AND CAP SW101	8-11-94	K.C.F.
	G4	SEE SHEET 5.	10-07-94	B.M.D.
D19	G5	C292 WAS 82pF, R372 WAS 270Ω, C339 WAS 180pF	12/07/94	S.D.W.



NOTES:

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

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ASSEMBLY SURFACE MOUNT PARTS, BOTTOM SIDE VIEW.

REF. SCHEMATIC 08669		JOB NO. SWB	R. L. DRAKE CO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		APPROVALS	DATE	
FOLLOWS MIL-STD-207		DRWN DMR	11-30-92	PCB, SWB RF/IF
MATERIAL		DATE	SIZE	DWG. NO. 8670
PARTS		ISSUED	SCALE 4:1	SHEET 5 OF 8
DO NOT SCALE DRAWING		PART NO. 2100871		REV. G5

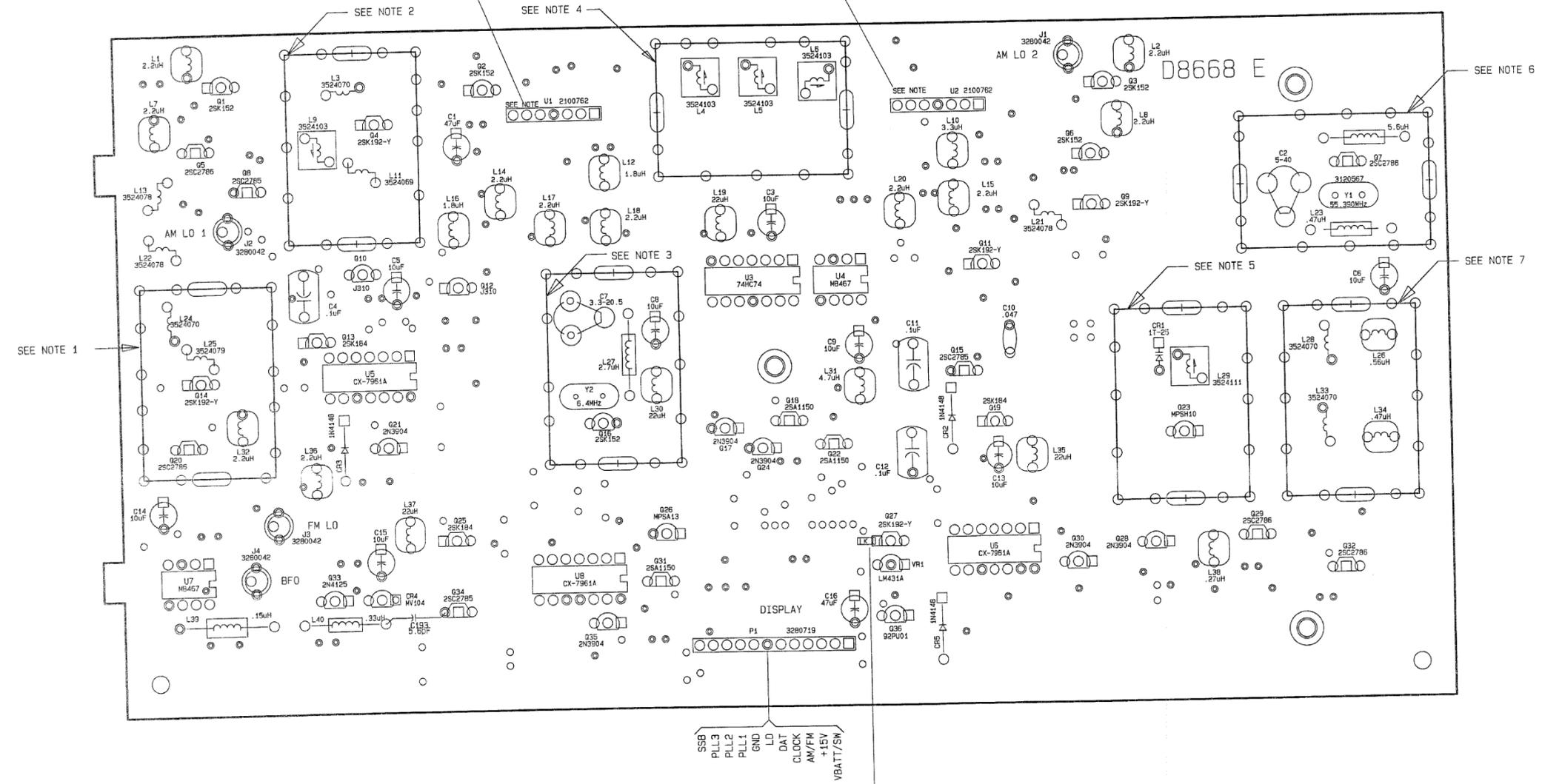
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
--	A0	PROTOTYPE ONLY.	08-18-92	JFB
--	A1	PROTOTYPE ONLY.	01-15-93	DMR
--	B	PROTOTYPE	06-04-93	JR
--	C	PROTOTYPE	07-21-94	MM
--	D	PROTOTYPE	08-25-93	MM
--	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	01-28-94	MM
D13	E1	CHG L60 3524103 WAS 2524069 CHG L77, L78 1.8UH WERE 1.2UH CHG L79 2.2UH WAS 2.7UH SEE SH ADD CAN AROUND L60 CHG SHIELD BOTTOM SIDE IN NOTE 1 WAS 4561560	03-23-94	CMP
E21	E2	DEL L30 1.6UH C140 E-40 WAS 3.3-20 SEE SHIT 5	5-28-94	JEB
--	E3	RESEQUENCE OF REFDES	06-22-94	DEP
--	E4	SEE SHEET 5	11-07-95	SDW
M7	E5	ADDED C193 5.50F	06-14-95	DMF
M6	E6	CHANGES TO SWITCH CURRENT SWB SYNTH OVER TO NEW SWB SYNTH W/550. CHG L40 0.25UH WAS 1.6UH. SEE SHEET 5, REMOVED PREAMPLER MASK DWS. ADDED 2 SW2 ASSEMBLY DWS.	03-04-95/ 04-18-95	JEB/DMR
--	E7	SEE SHEET 5.	01-28-97	SMT
--	E8	SEE SHEET 6.	04-16-97	SMT
L14	E9	ECN 071--ADDED 100pF FROM DRAW OF Q27 TO GND.	06-30-97	SMT
E22	F22	ECN 072--L42 WAS 1.8UH NOW 5.6UH. Y1 WAS 3120565 NOW 3120567. 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
D14-13	E12	ADDED SPECIFICATION FOR PROPER ORIENTA- TION OF L4, L5, AND L6.	04-23-99	SMT
D9-24	E13	ECN 086--REPLACE U1-U2 EACH WITH ASSEMBLY 2070762 (NE612) WAS 1057HA (3040133)	01-28-00	DLH

NOTE:

- 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.
- 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

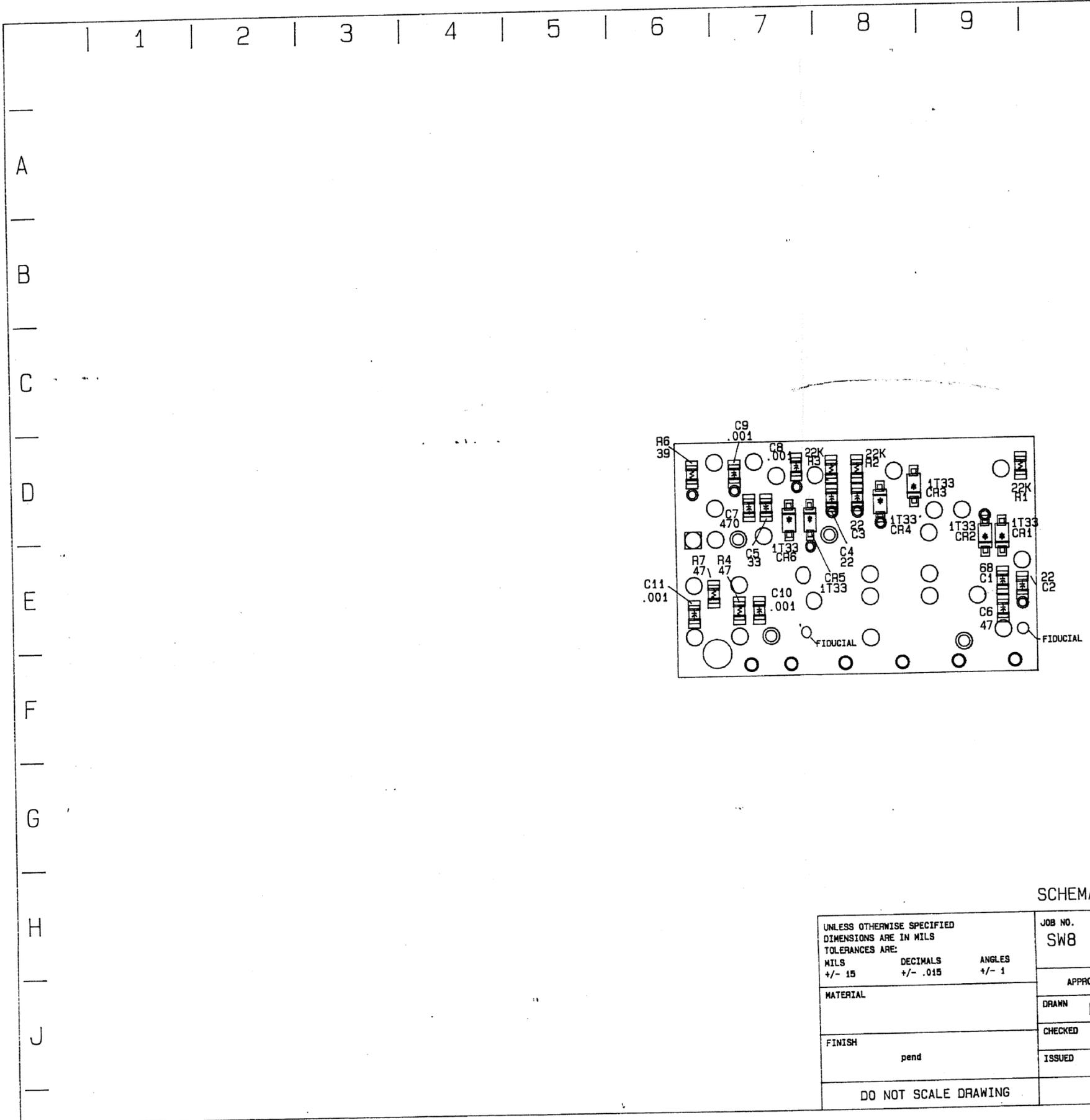
- INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
- INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
- INSTALL SHIELD BOTTOM SIDE 4561561, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
- INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
- INSTALL SHIELD BOTTOM SIDE 4561561, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
- INSTALL SHIELD BOTTOM SIDE 4561560, SHIELD (TOP SIDE) WALL 4561562, AND SHIELD TOP SIDE COVER 4561563.
- NO SHIELDS AT THIS LOCATION, BOTTOM OR TOP.

ADD 100pF CHIP FROM DRAW OF Q27 TO GND.

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SCHEMATIC REF. D8667		ASSEMBLY PARTS, TOP SIDE VIEW.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:	JOB NO. SW8	DRAKE R. L. DRAKE CO.	
MILS +/- 0	DECIMALS +/- .005	APPROVALS	DATE
		DRAWN DMR	01-15-93
MATERIAL		PCB, SYNTHESIZER	
FINISH	DO NOT SCALE DRAWING	SIZE D	DWG. NO. 8668 REV. E13
		SCALE 2:1	PART NO. 2100872/883 SHEET 4 OF 7

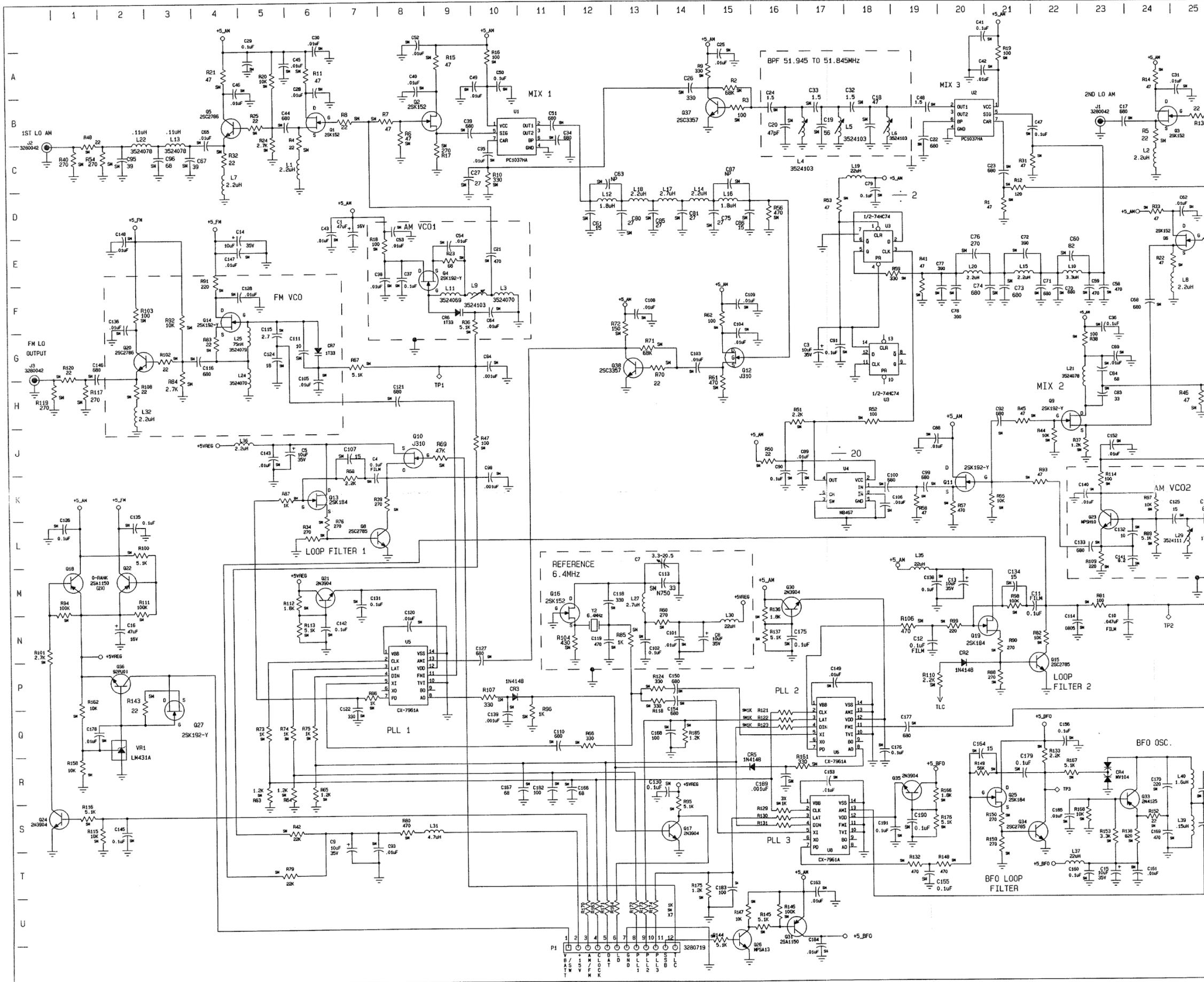


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	A	NEW	10-18-93	MAM
-	B	CHANGED FOOTPRINT OF TOROID L7, L8 AND L9 ADDED C9, C10, C11, R4, R6, R7, G1, L11 AND L12.	11-17-93	MAM

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE: MILS DECIMALS ANGLES +/- 15 +/- .015 +/- 1	JOB NO. SW8		R. L. DRAKE CO.			
	APPROVALS	DATE				
	MATERIAL	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	



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	1-24-94	MM
	E1	CHG C293, C294 TO WERE 3.9 CHG C295, C296 TO WERE 18 CHG C277, C289 NP WERE 1.5 CHG L77, L78 1.0UH WERE 1.2UH CHG L79 2.2UH MAS 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 580 CHG C240 47 MAS 330 CHG L60 3524103 MAS 3524069	3-22-94	CMF
	E2	CHG R169 5.1K MAS 10K CHG C148 5.40UF MAS 3.3-20.50F DEL L144 27UF	9-20-94	JSB
	E3	RESEQUENCE OF PART REFDES	21-JUN-94	SEP
	E4	C113 MAS 270F N750 NOW 330F N750.	11-07-94	SWH

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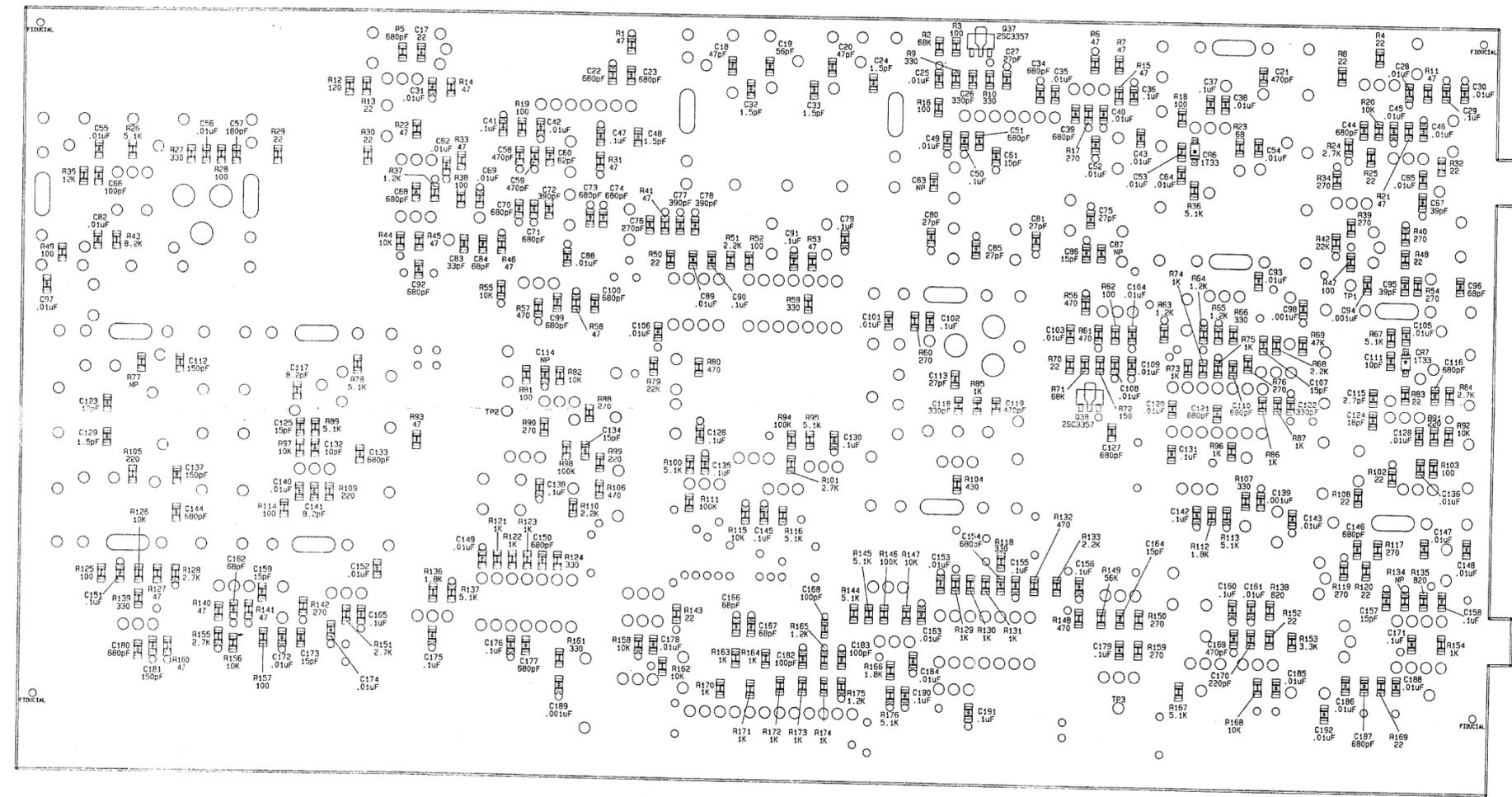
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PCB REF. DB668		DRAKE R. L. DRAKE CO.	
DATE	REV.	SCHEMATIC, SYNTHESIZER	
SIZE D	ENC. NO. DB667	REV. E4	
SCALE NONE	PART NO. 2100872	SHEET 3	OF 3

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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	MH
--	D	PROTOTYPE	08-25-93	MH
--	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	1-28-94	MH
F14 F17 F13 F16 F17 G17 G19 H20 H20	E1	CHG C240 47 MAS 120 CHG C239 1.5 MAS 10 CHG C212 1.5 MAS 680 CHG R189 100 MAS 22 CHG C277, C280 10K WERE 2.7 CHG C280, C281 27 WERE 18 CHG C283, C284 15 WERE 3.9 CHG R245 470 MAS 330 CHG R257 470 MAS 270 SEE SH 4	3-23-94	CMP
G6	E2	R169 5.1K MAS 10K SEE SH 4	5-28-94	JEB
--	E3	RESEQUENCE OF REDES	22-JUN-94	GEP



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SCHEMATIC REF. D8667

SMD PARTS, BOTTOM SIDE VIEW.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		JOB NO. SW8		DRAWN BY DMR		DATE 01-15-93		REV. E3	
MATERIAL		APPROVALS		CHECKED		SIZE D		DWG. NO. 8668	
FINISH		ISSUED		DO NOT SCALE DRAWING		SCALE 2:1		PART NO. 2100872	
								SHEET 5 OF 8	

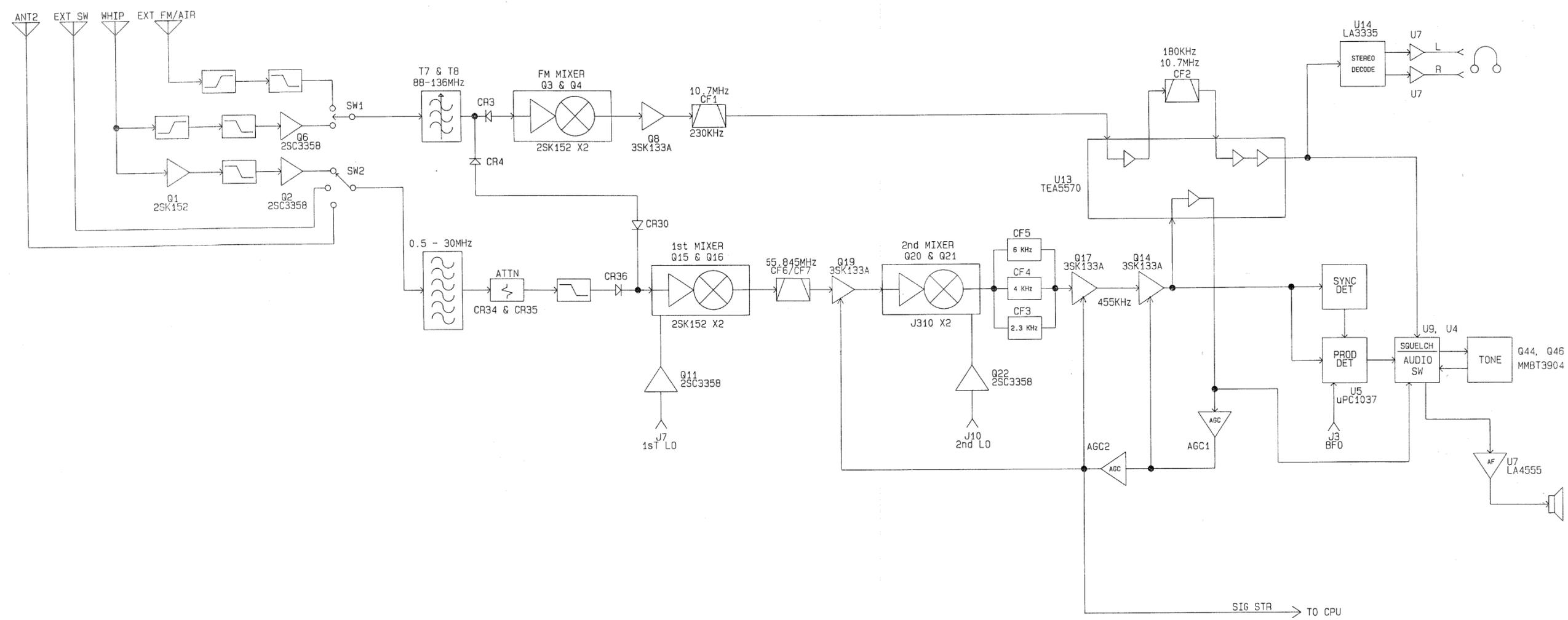
DRAKE R. L. DRAKE CO.

PCB, SYNTHESIZER

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

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 |

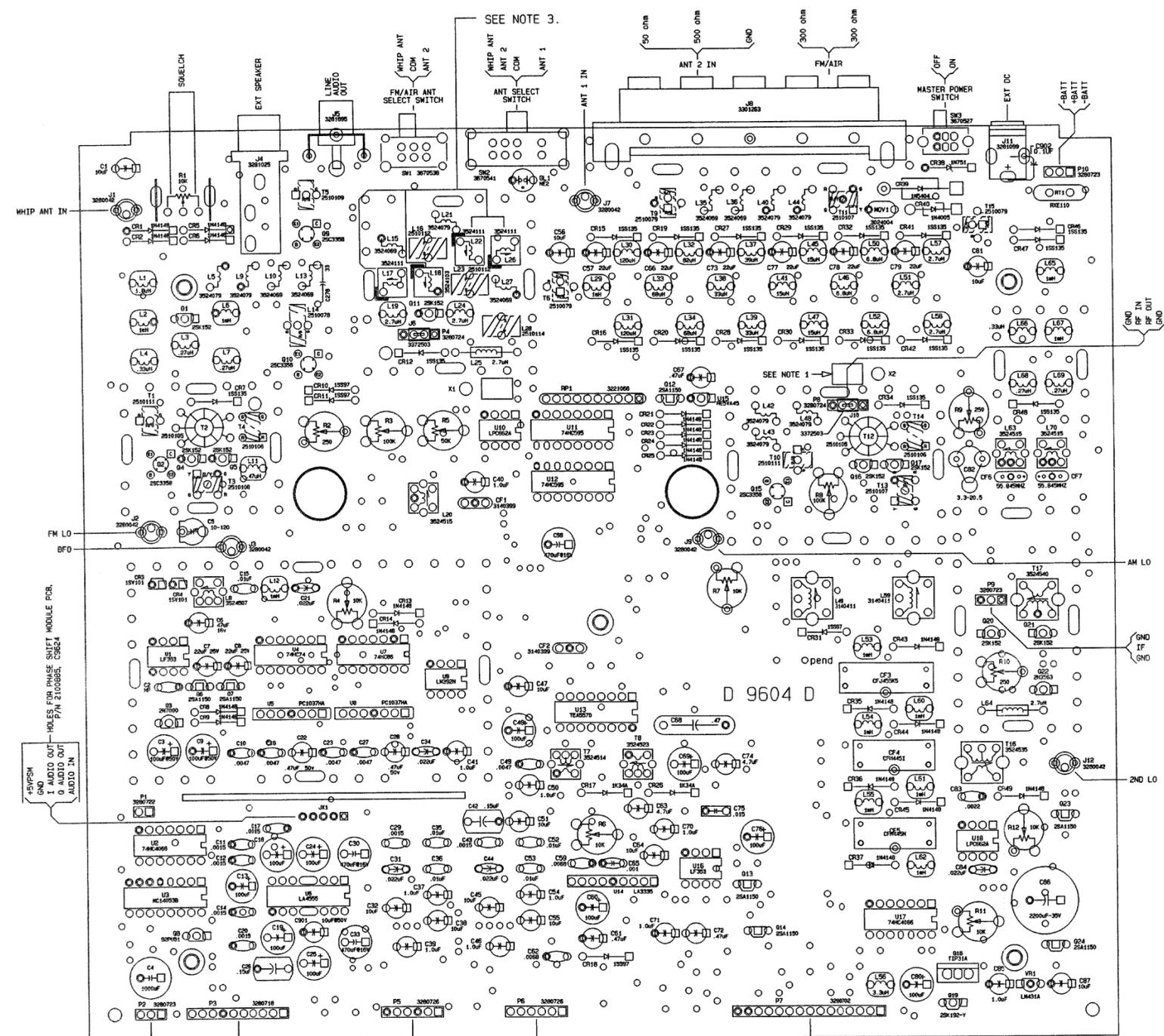
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JOB NO.	SW8	DRAKE R. L. DRAKE CO.		
APPROVALS	DATE	SW8 BLOCK DIAGRAM		
DRAWN KEF	8-31-93	SIZE D	DWG. NO. 9126	REV. A0
CHECKED		SCALE NONE	PCB REF. 000000	SHEET 1 OF 1
ISSUED		DO NOT SCALE DRAWING		

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 100PF/50V 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 100PF/50V NOW 100PF/50V	2-20-96	SJK
DB	C2	C278 WAS SMD. INSTALL LEADED PART AS SHOWN.	04-11-96	DMR
B1B	C3	EDM 062. ADDED 0.1UF 50V CAP. CERAMIC (X7AL) AT DC LIMIT JACK. ** TERMINAL AT PC BD. 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



HOLES FOR PHASE SHIFTER MODULE PCB.
+5VPSM
GND
I. AUDIO OUT
O. AUDIO OUT
AUDIO IN

ASSEMBLY NOTES:

- 1) INSTALL TYPE RG178 COAX CABLE (3710045) 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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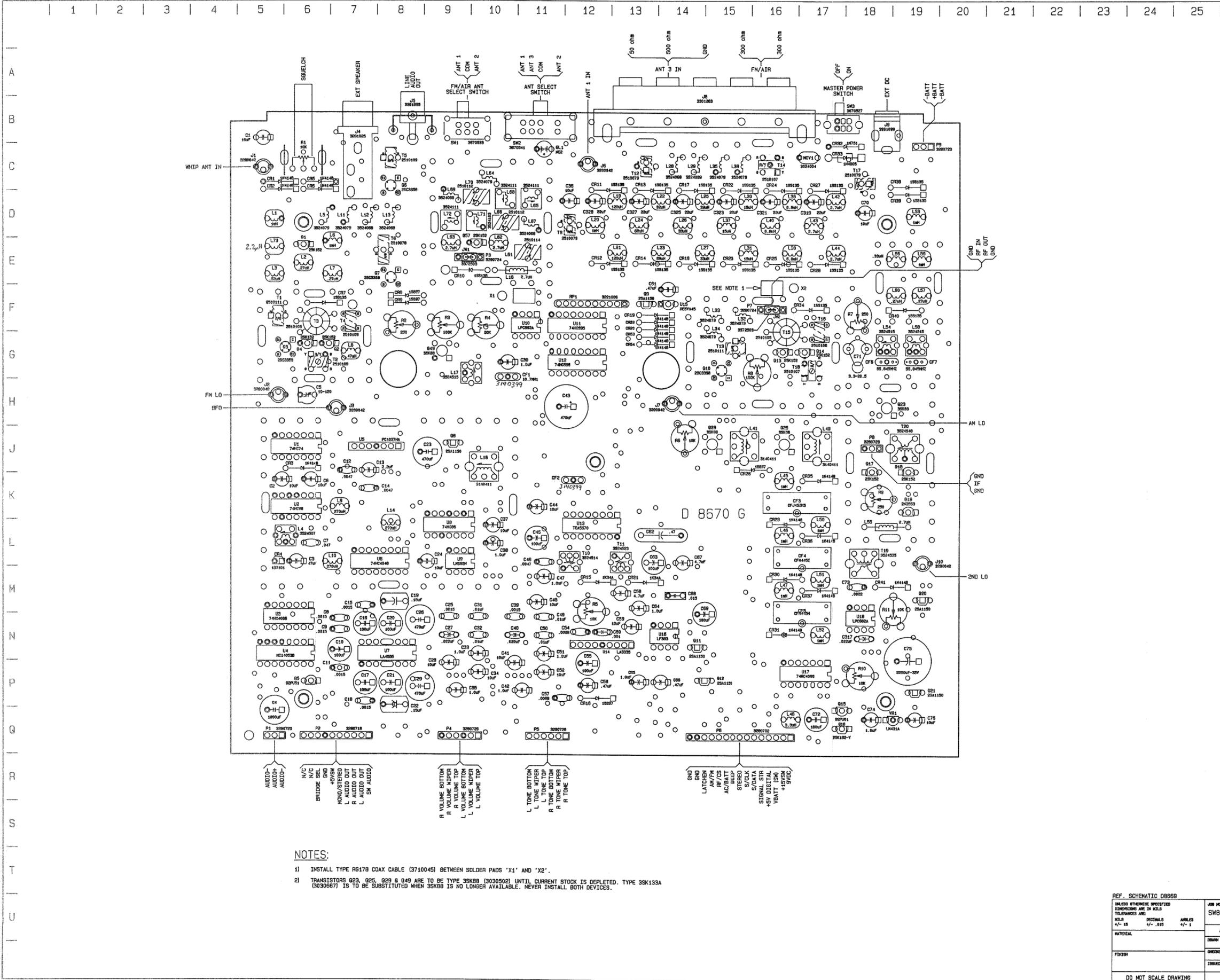
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REF. SCHEMATIC D9603		JUN NO. SW8		ASSEMBLY PARTS, TOP SIDE VIEW.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		APPROVALS		DATE	
MATERIAL	FINISH	ISSUED	DATE	PCB, SW8 RF/IF	
DO NOT SCALE DRAWING		SCALE 1.5:1		PART NO. 2100884	SHEET 4 OF 6

DRAKE R. L. DRAKE CO.

SIZE D DWG. NO. 9604 REV. D2

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	E	PROGRAM, REMOVED L15, T7 & T8. ADDED C218, C224, C229, C236, C237, C238, L81 THRU L78 & Q27. C317 WAS SN CERAMIC. C22 MAS 3140409.	02-03-94	DMR
C10	F	L84 MAS 3524049.	03-17-94	DMR
F13	F1	ADDED CR52 THRU CR54. SEE SHEET 5.	03-24-94	DEP
	B	SEE SHEET 5.	04-29-94	DMR
H10	G1	C21, C22 3140399 were 3140399, 3140419	5-27-94	JEB
	G2	SEE SHEET 1.	7-26-94	KCF
	G3	SEE SHEET 3.	8-11-94	KCF
	G4	SEE SHEET 3.	10-07-94	RMAS
E5	G5	L73 was 0.33 uH	11/22/94	SDW
C16	G6	Corrected Pictorial of Toroid Installation T14, T18	6/1/95	NKL



- NOTES:**
- 1) INSTALL TYPE R6178 COAX CABLE (3710045) BETWEEN SOLDER PADS 'X1' AND 'X2'.
 - 2) TRANSISTORS Q23, Q25, Q29 & Q49 ARE TO BE TYPE 3SK88 (3030502) UNTIL CURRENT STOCK IS DEPLETED. TYPE 3SK133A (3030667) IS TO BE SUBSTITUTED WHEN 3SK88 IS NO LONGER AVAILABLE. NEVER INSTALL BOTH DEVICES.

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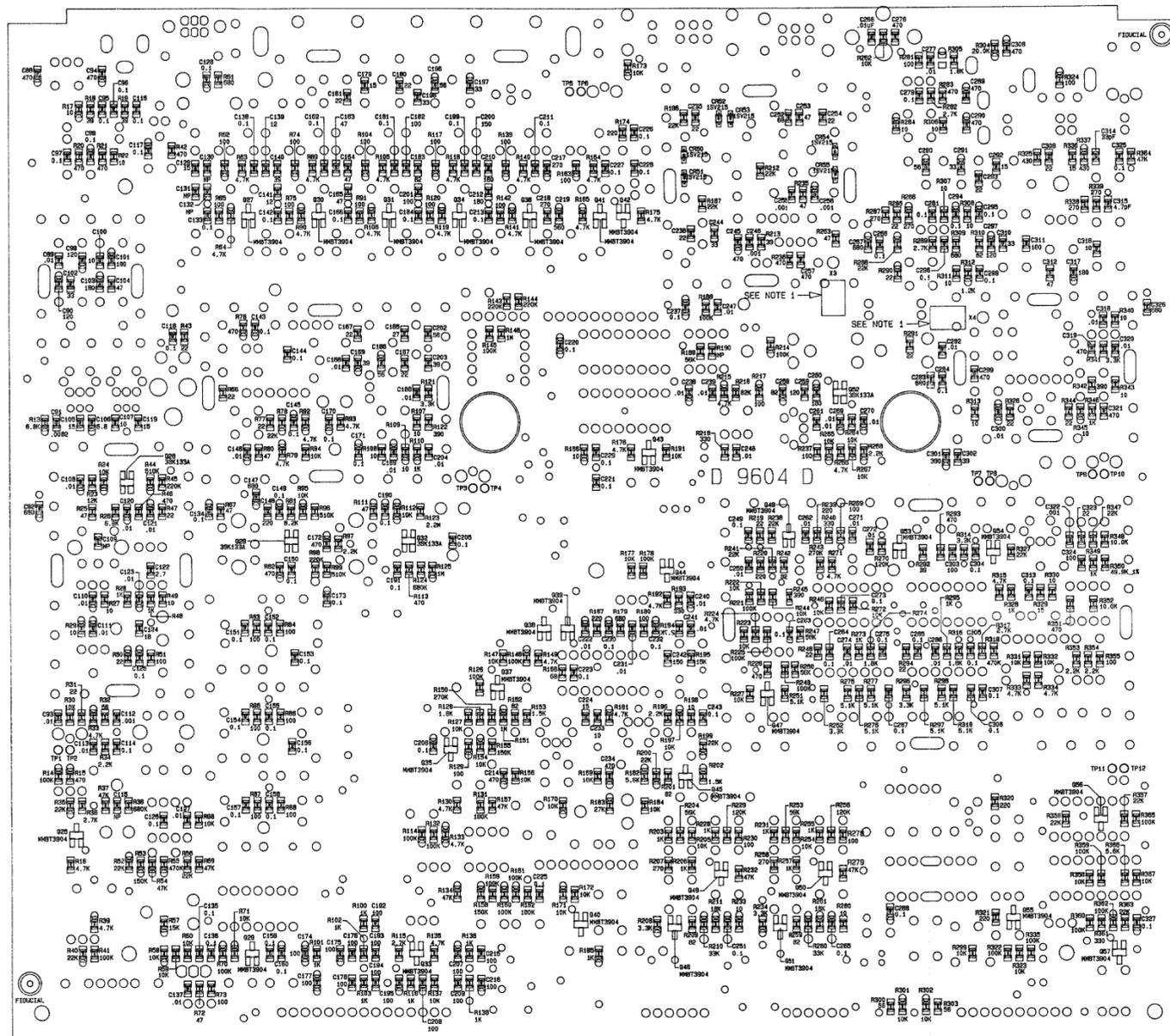
REF. SCHEMATIC D8669		JOB NO. SWB		DATE 11-30-92	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE:		APPROVALS		DRAWN DMR	
MATERIAL		DATE		DRAWN DMR	
FINISH		CHECKED		DATE	
DO NOT SCALE DRAWING		JOBED		DATE	
SCALE 1.5:1		PART NO. 2100871		SHEET 4 OF 8	

ASSEMBLY PARTS, TOP SIDE VIEW.
DRAKE R. L. DRAKE CO.

PCB, SWB RF/IF
 DNG. NO. 8670
 REV. G5

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	RAD
K17	B2	CHG. R317 2.7K WAS 10K : SEE ALSO SHEETS 2 & 4.	21 NOV 95	BMD
---	C	SEE SHEET 4.	01-24-96	DMR
---	C1	SEE SHEET 4	2-20-96	SJK
C17	C2	C278 WAS SMD. SEE SHEET 4.	04-11-96	DMR
---	C3	SEE SHEET 4.	06-15-96	SMT
BB	D	SEE SHEET 1.	02 AUG 96	RAD
D11 C10 D9	D1	EQN 084---CR50 & CR51 WERE 1T33 NOW 15V215 CR52 & CR53 WERE 1T33 NOW 15V215. CR54 & CR55 WERE 1T33 NOW 15V215.	28 AUG 98	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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ASSEMBLY SURFACE MOUNT PARTS, BOTTOM SIDE VIEW.

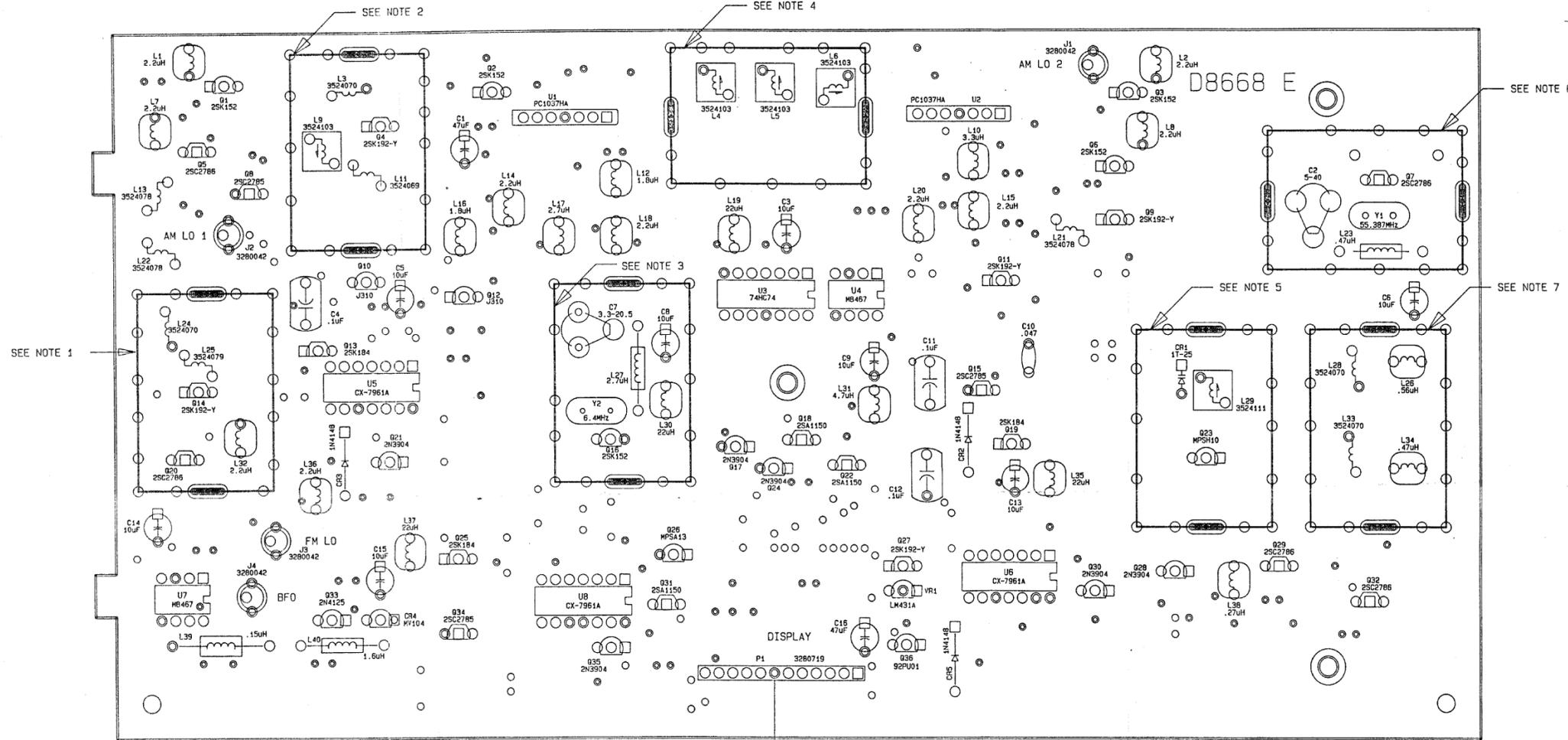
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILS TOLERANCES ARE: MILS DECIMALS ANGLES ±.5 ±.005 ±.1		MATERIAL		FINISH		DO NOT SCALE DRAWING		SIZE D		DWG. NO. 9604		REV. D2	
		PCB, SW8 RF/IF		SCALE 1.5:1		PART NO. 2100884		SHEET 5 OF 6					

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
---	A0	PROTOTYPE ONLY.	08-18-93	JFG
---	A1	PROTOTYPE ONLY.	01-15-93	DMR
---	B	PROTOTYPE	06-04-93	JG
---	C	PROTOTYPE	07-21-94	MM
---	D	PROTOTYPE	08-25-93	MM
---	E	VARIOUS VALUE CHANGES AND CIRCUIT UPDATES	1-28-94	MM
D13 E9	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 CAN AROUND L60 CHG SHIELD BOTTOM SIDE IN NOTE 1 WAS 4561550	3-23-94	CMP
E21 F20	E2	DEL L36 1.6 uH C14B 5-40 WAS 3.3-20 SEE SHT 5	5-28-94	JEB
---	E3	RESEQUENCE OF REFDES	22-JUN-94	BEP

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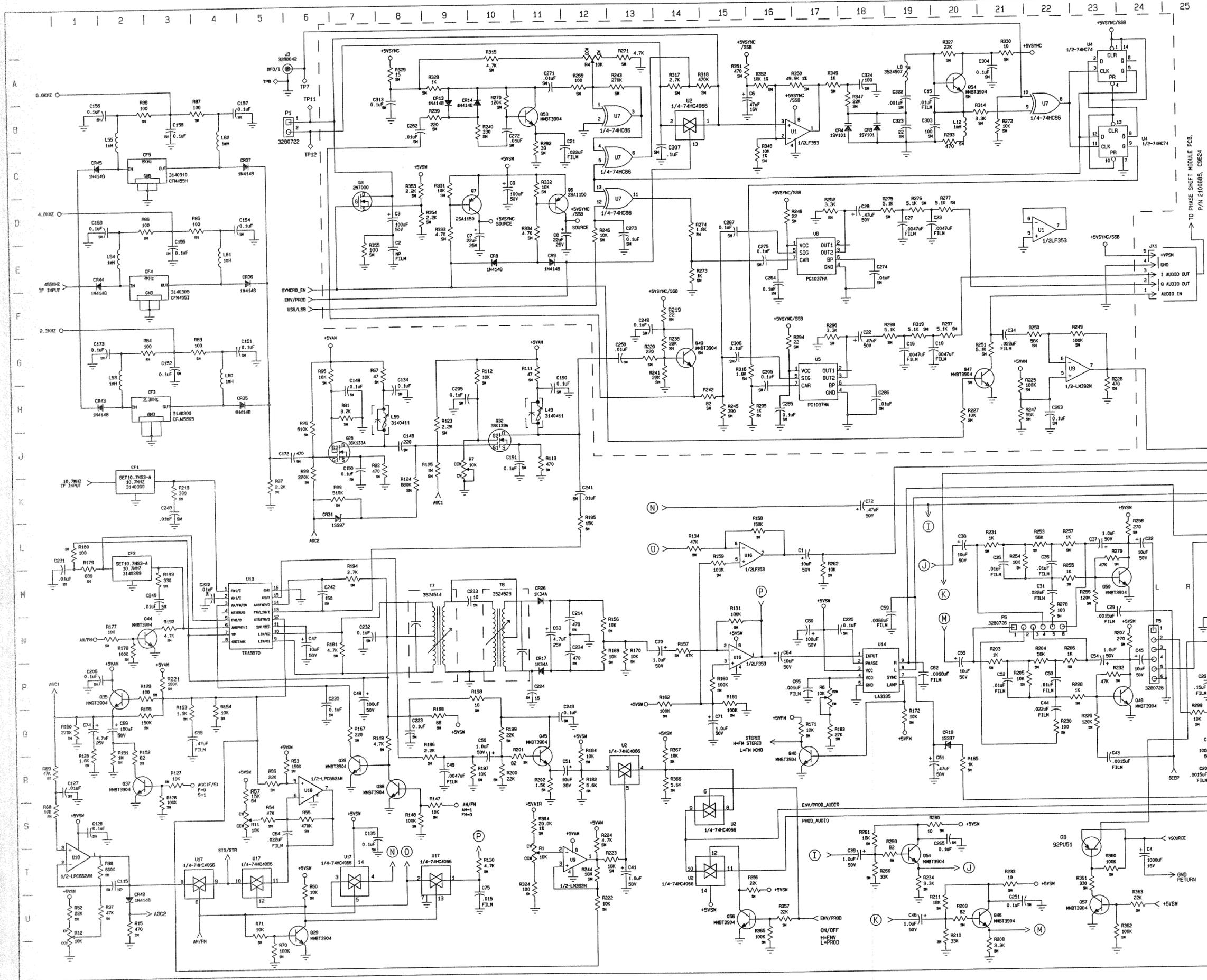
ASSEMBLY NOTES

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.

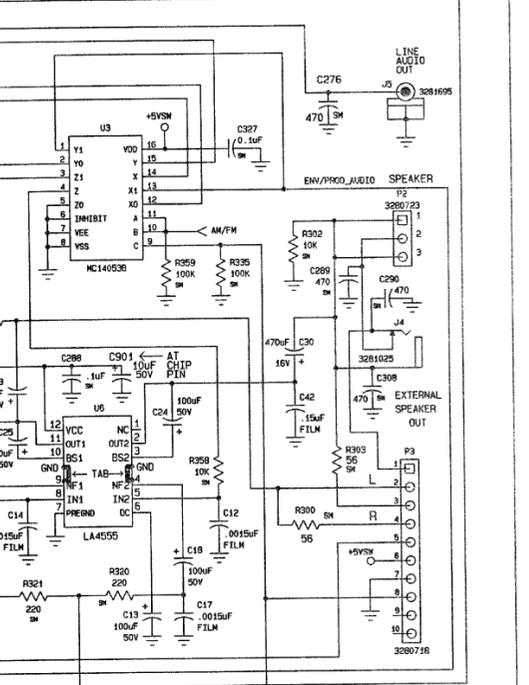
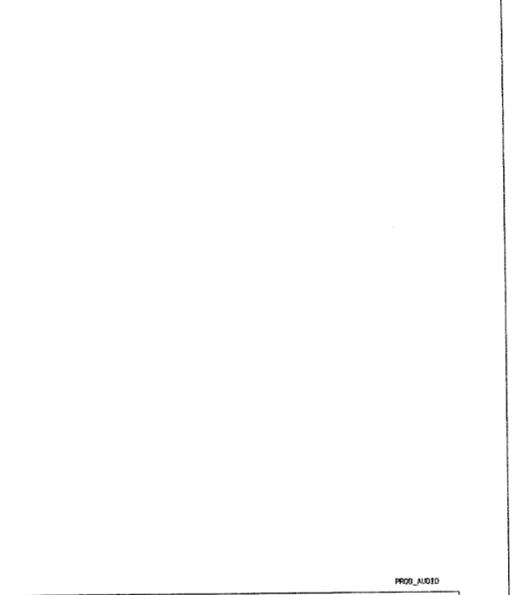
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SCHEMATIC REF. D8667		ASSEMBLY PARTS, TOP SIDE VIEW.	
JOB NO. SW8		DRAKE R. L. DRAKE CO.	
APPROVALS	DATE	PCB, SYNTHESIZER	
DRAWN DMR	01-15-93	SIZE D	DWG. NO. 8668
DESIGNED		REV. E3	
ISSUED		SCALE 2:1	PART NO. 2100872
DO NOT SCALE DRAWING			SHEET 4 OF 8



ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	NEW DRAWING	03-01-95	DMR
	B	REVISED	06-05-95	AJM
A14	B1	CHK. R317 2.7K WAS 10K ; ADDED C301 100F 8.25V AT US PIN 12 ; ADDED OHM RETURN AT C4 ; SEE ALSO SHEET 1.	11-21-95	BND
L8	C	CHANGED REV LEVEL TO MATCH PCB.	01-22-96	DMR
R26	C1	REPL. C301 WAS 100UF50V NEW 100UF50V	2-20-96	SLT
	C2	SEE SHEET 1.	04-10-96	DMR
	C3	SEE SHEET 1.	5-15-96	BMT
	D	NO SCH CHANGE, SEE PCB.	13-08-96	RAD
	D1	SEE SHEET 1	26 AUG 98	SMT
	D2	NO SCH CHANGE, SEE PCB.	08-SEP 98	SMT



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REF. PCB D9504

SWB

APP'D	DATE	REV.
DMR	03-01-95	02

SCH. RF/IF BOARD

SIZE D

DO NOT SCALE DRAWING

SCALE NONE

PART NO. 2100884

SHEET 2 OF 2

REV. 02

9603

DRAKE R. L. DRAKE CO.

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