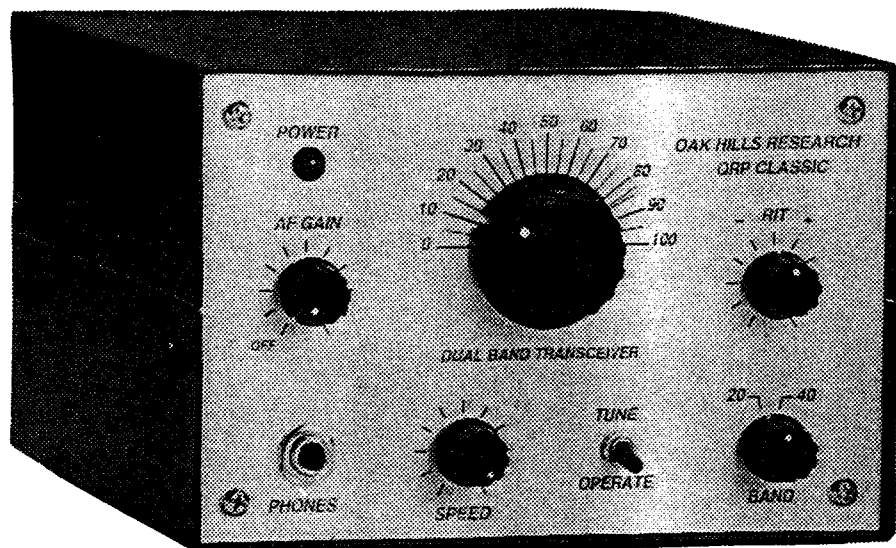


ASSEMBLY INSTRUCTIONS

QRP CLASSIC CL2040



Oak Hills Research
20879 Madison Street
Big Rapids, MI 49307

OSCILLATOR BOARD PARTS LIST

RESISTORS & PC POTS ALL RESISTORS ARE 1/4W 5%

QTY	PART#	DESCRIPTION	REF DES#
1	6-150-14	15 ohm (brn-grn-blk)	R100
2	6-470-14	47 ohm (yel-vio-blk)	R108,R113
4	6-101-14	100 ohm (brn-blk-brn)	R106,R117,R118,R124
1	6-271-14	270 ohm (red-vio-brn)	R101
2	6-471-14	470 ohm (yel-vio-brn)	R111,R134
2	6-561-14	560 ohm (grn-blu-brn)	R137,R138
3	6-102-14	1K ohm (brn-blk-red)	R128,R130,R136
1	6-152-14	1.5K ohm (brn-grn-red)	R110
4	6-222-14	2.2K ohm (red-red-red)	R120,R121,R122,R131
4	6-332-14	3.3K ohm (org-org-red)	R102,R107,R109,R123
2	6-472-14	4.7K ohm (yel-vio-red)	R103,R104
1	6-822-14	8.2K ohm (gry-red-red)	R133
2	6-103-14	10K ohm (brn-blk-org)	R116,R126
2	6-123-14	12K ohm (brn-red-org)	R119,R132
1	6-153-14	15K ohm (brn-grn-org)	R129
5	6-104-14	100K ohm (brn-blk-yel)	R105,R115,R125,R127,R135
1	6-105-14	1M ohm (brn-blk-grn)	R114
1	POT 7	10K ohm pot (103) (see key# A1)	R112

OSCILLATOR BOARD PARTS LIST

<u>QTY</u>	<u>PART#</u>	<u>DESCRIPTION</u>	<u>KEY#</u>	<u>REF DES#</u>
<u>DIODES</u>				
12	1N4148	Silicon Diode	A10	D100,D101,D102, D103,D104,D105, D107,D108,D109, D110,D111,D112
1	MV2109	Varactor Diode	A11	D106

ICs & SOCKETS

1	NE602AN	8 Pin IC	A12	U101
1	ICS01	8 Pin IC Socket	A13	

MISCELLANEOUS

1	K134	2" large red wire		
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RECEIVER BOARD PARTS LIST

RESISTORS & PC POTS
ALL RESISTORS ARE 1/4W 5%

QTY	PART#	DESCRIPTION	REF DES#
1	6-279-14	2.7 ohm (red-vio-gld)	R230
1	6-569-14	5.6 ohm (grn-blu-gld)	R200
1	6-100-14	10 ohm (brn-blk-blk)	R210
2	6-330-14	33 ohm (org-org-blk)	R201,R204
2	6-470-14	47 ohm (yel-vio-blk)	R212,R215
1	6-560-14	56 ohm (grn-blu-blk)	R202
1	6-680-14	68 ohm (blu-gry-blk)	R206
2	6-101-14	100 ohm (brn-blk-brn)	R239,R247
1	6-221-14	220 ohm (red-red-brn)	R245
2	6-271-14	270 ohm (red-vio-brn)	R208,R209
2	6-471-14	470 ohm (yel-vio-brn)	R213,R216
1	6-561-14	560 ohm (grn-blu-brn)	R203
8	6-102-14	1K ohm (brn-blk-red)	R205,R214,R217,R233, R236,R246,R249,R254
2	6-222-14	2.2K ohm (red-red-red)	R211,R241
1	6-272-14	2.7K ohm (red-vio-red)	R256
1	6-332-14	3.3K ohm (org-org-red)	R225
1	6-472-14	4.7K ohm (yel-vio-red)	R231
1	6-682-14	6.8K ohm (blu-gry-red)	R207
5	6-103-14	10K ohm (brn-blk-org)	R221,R222,R223,R229 R235
1	6-153-14	15K ohm (brn-grn-org)	R251
3	6-223-14	22K ohm (red-red-org)	R237,R240,R250
1	6-273-14	27K ohm (red-vio-org)	R232
8	6-333-14	33K ohm (org-org-org)	R226,R227,R228,R242, R243,R244,R252,R253
2	6-513-14	51K ohm (grn-brn-org)	R234,R248
1	6-104-14	100K ohm (brn-blk-yel)	R238
1	6-394-14	390K ohm (org-wht-yel)	R220
1	6-105-14	1M ohm (brn-blk-grn)	R255
1	6-155-14	1.5M ohm (brn-grn-grn)	R218
2	POT 7	10K ohm pot (103) (see key# A1)	R219,R224

T/R BOARD PARTS LIST

RESISTORS & POTS
ALL RESISTORS ARE 1/4W 5%

QTY	PART#	DESCRIPTION	REF DES#
1	6-129-14	1.2 ohm (brn-red-gld)	R304
1	6-339-14	3.3 ohm (org-org-gld)	R313
2	6-100-14	10 ohm (brn-blk-blk)	R301,R324
1	6-270-14	27 ohm (red-vio-blk)	R311
2	6-470-14	47 ohm (yel-vio-blk)	R308,R339
1	6-820-14	82 ohm (gry-red-blk)	R303
3	6-101-14	100 ohm (brn-blk-brn)	R318,R320,R325
1	6-561-14	560 ohm (grn-blu-brn)	R331
1	6-680-14	680 ohm (blu-gry-brn)	R319
14	6-102-14	1K ohm (brn-blk-red)	R300,R302,R306,R309,R310, R312,R315,R316,R317,R323, R332,R334,R336,R340
2	6-222-14	2.2K ohm (red-red-red)	R338,R342
1	6-332-14	3.3K ohm (org-org-red)	R330
4	6-472-14	4.7K ohm (yel-vio-red)	R333,R335,R337,R341
2	6-562-14	5.6K ohm (grn-blu-red)	R307,R322
5	6-103-14	10K ohm (brn-blk-org)	R314,R326,R327,R328,R329
1	6-473-14	47K ohm (yel-vio-org)	R321
1	K228	100 ohm PC pot w/shaft (see key# C1)	R305

QTY	PART#	DESCRIPTION	KEY#	REF DES#
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NP0 MONO CAPS

1	MC01	1pF (109)	A2	C321
1	MC04	3.3pF (339)	A2	C323
1	MC10	10pF (100)	A2	C317
2	MC11	12pF (120)	A2	C305,C331
2	MC12	15pF (150)	A2	C312,C332
2	MC16	33pF (330)	A2	C307,C340
1	MC19	56pF (560)	A2	C328
2	MC20	68pF (680)	A2	C313,C333

PARTS PICTORIAL

A1



A2



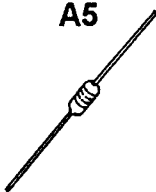
A3



A4



A5



A6



A7



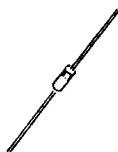
A8



A9



A10



A11



A12



A13



Always count the number of pins on the socket.

B1



B2



B3



B4



B5



B6



C1



C2



C3



C4



C5

NO
PART

C6



C7



C8



C9



C10



C11



C12



D1



D2



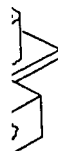
D3



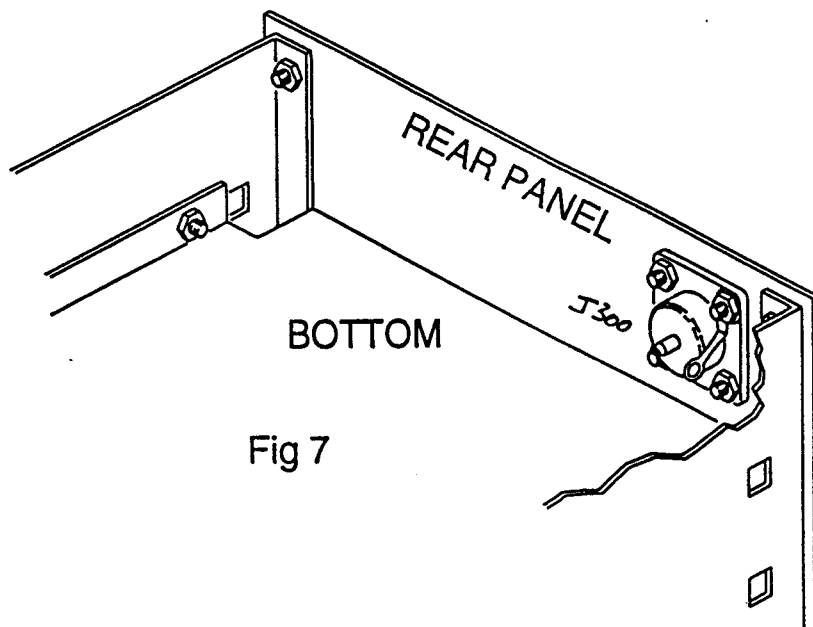
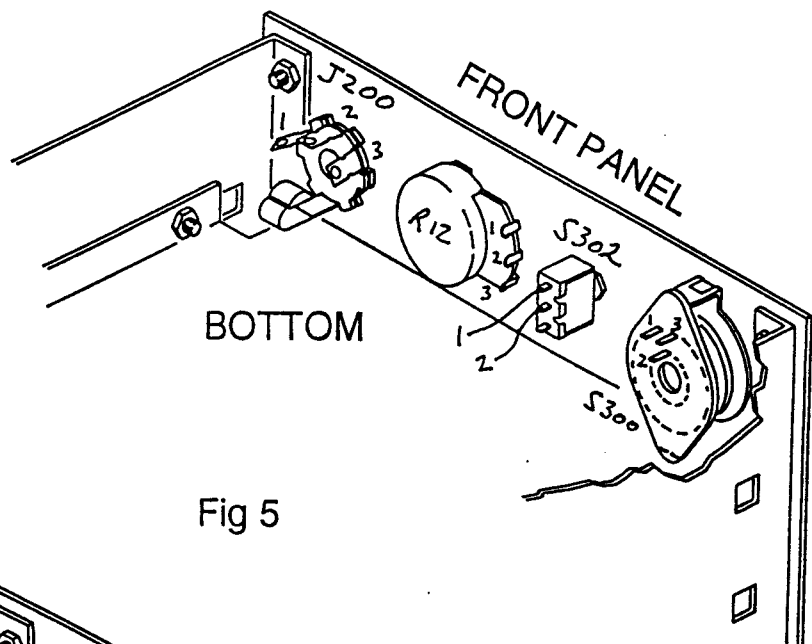
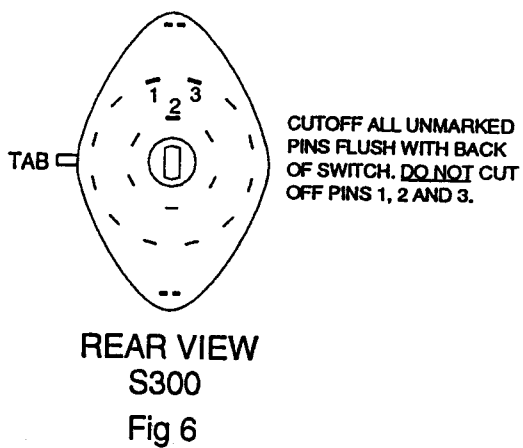
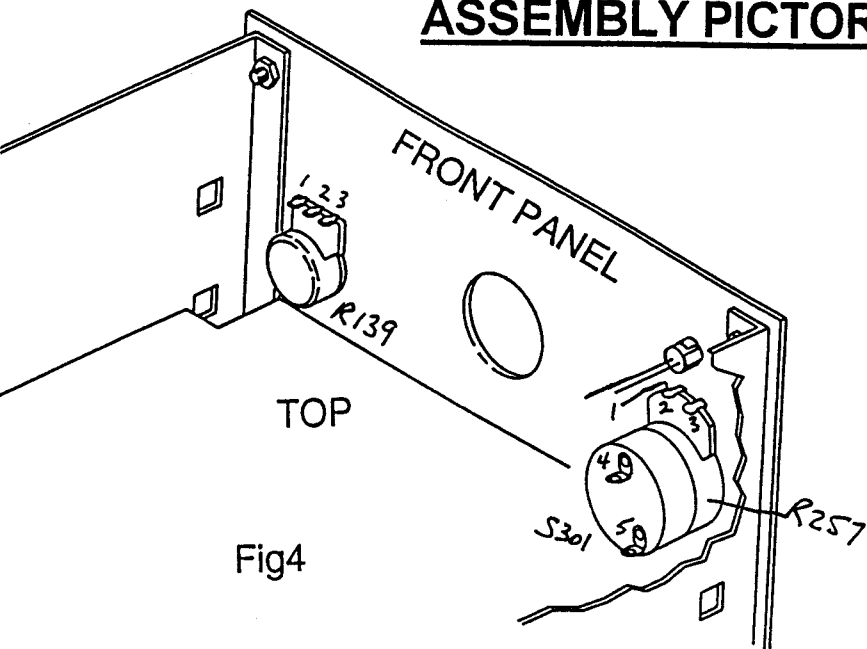
D4

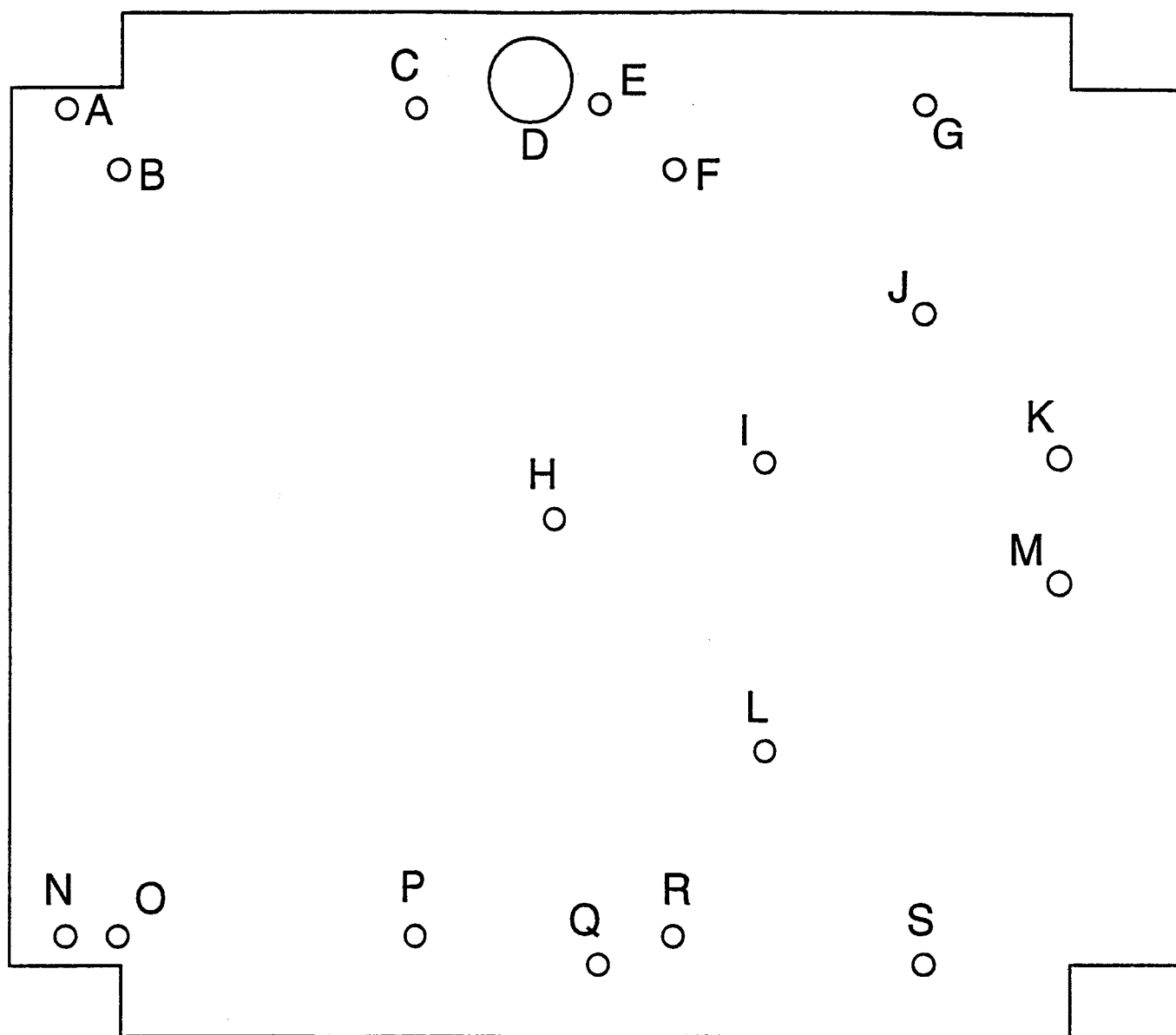


D5



ASSEMBLY PICTORIAL





TOP VIEW
CHASSIS

ASSEMBLY PICTORIAL

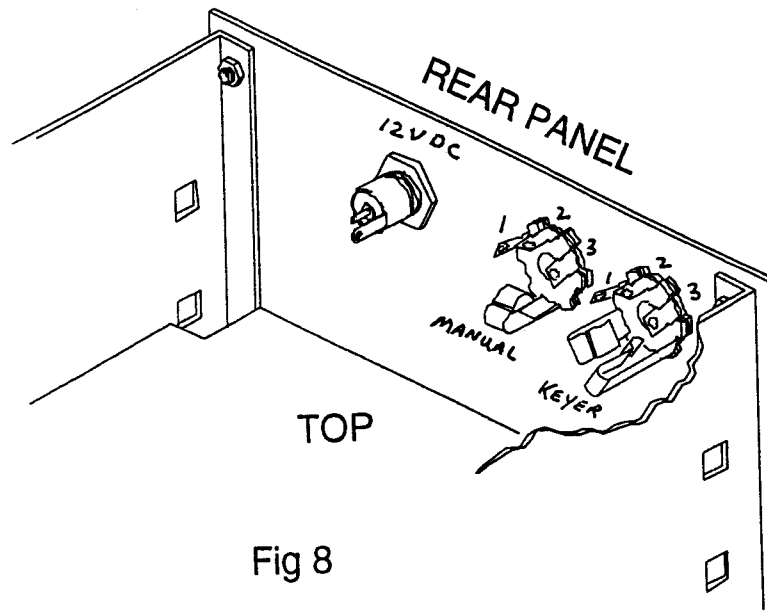


Fig 8

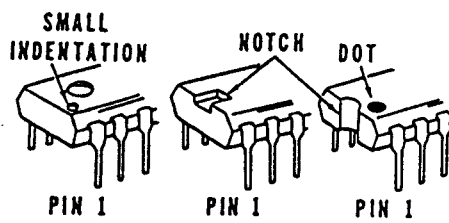
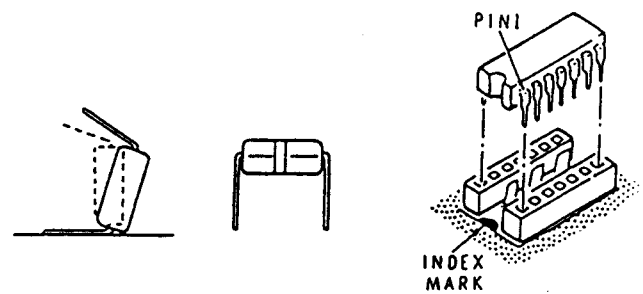
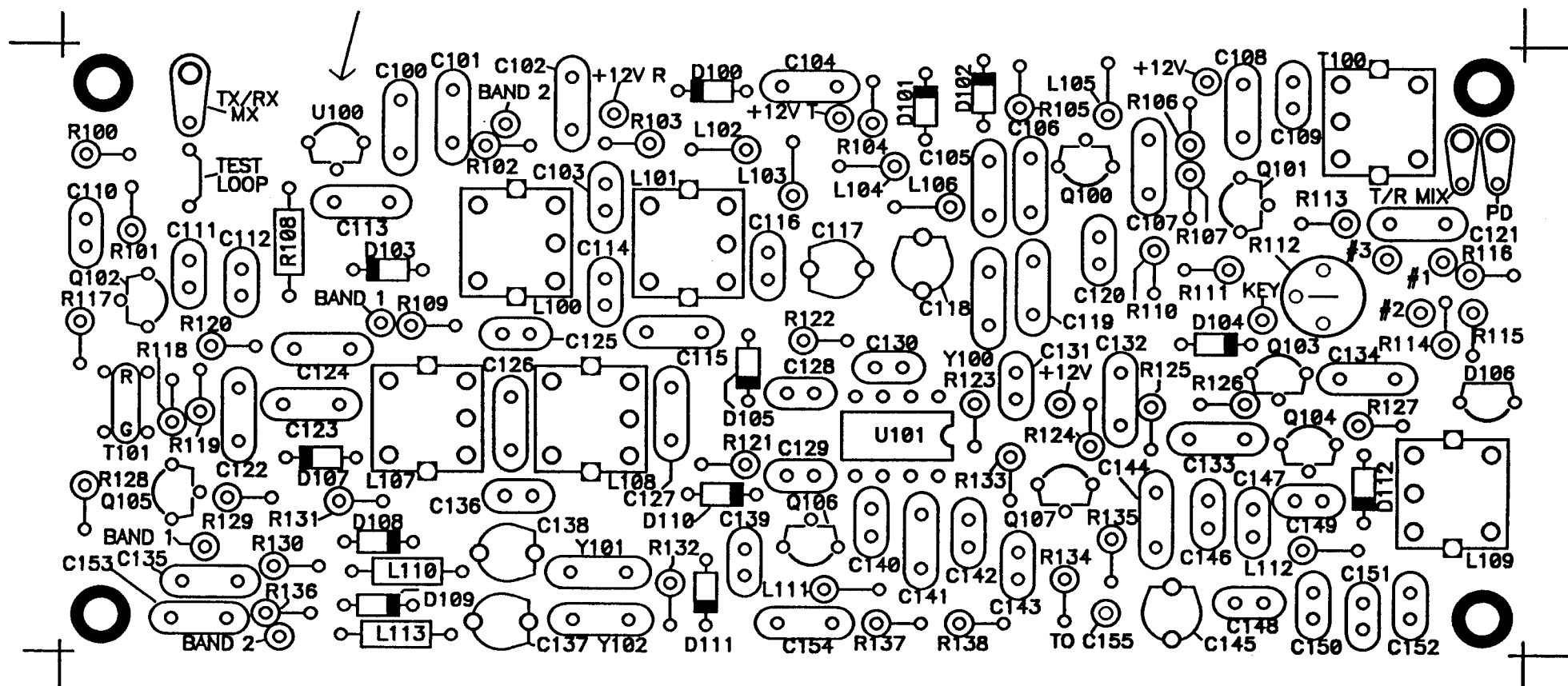


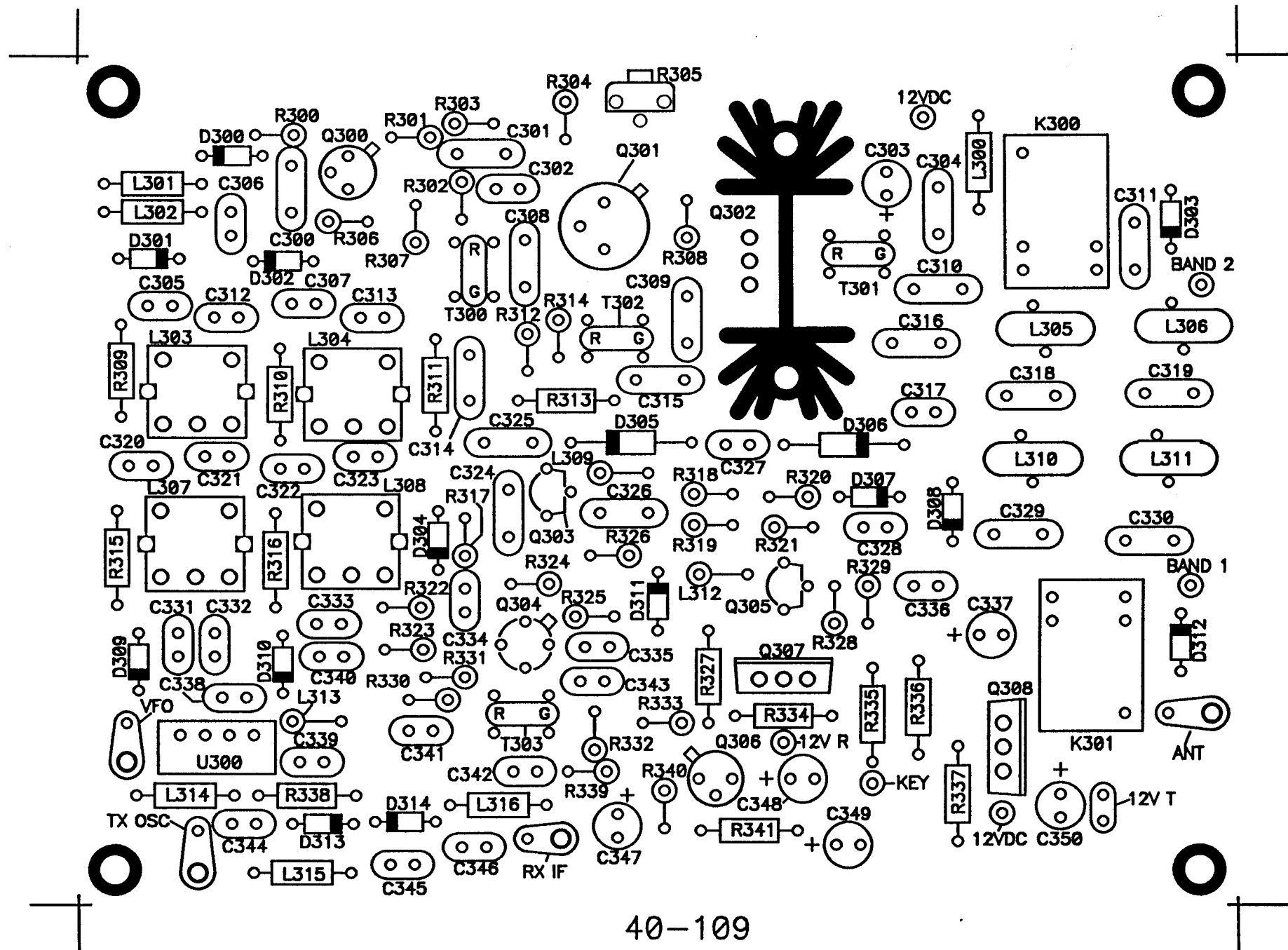
Fig 9



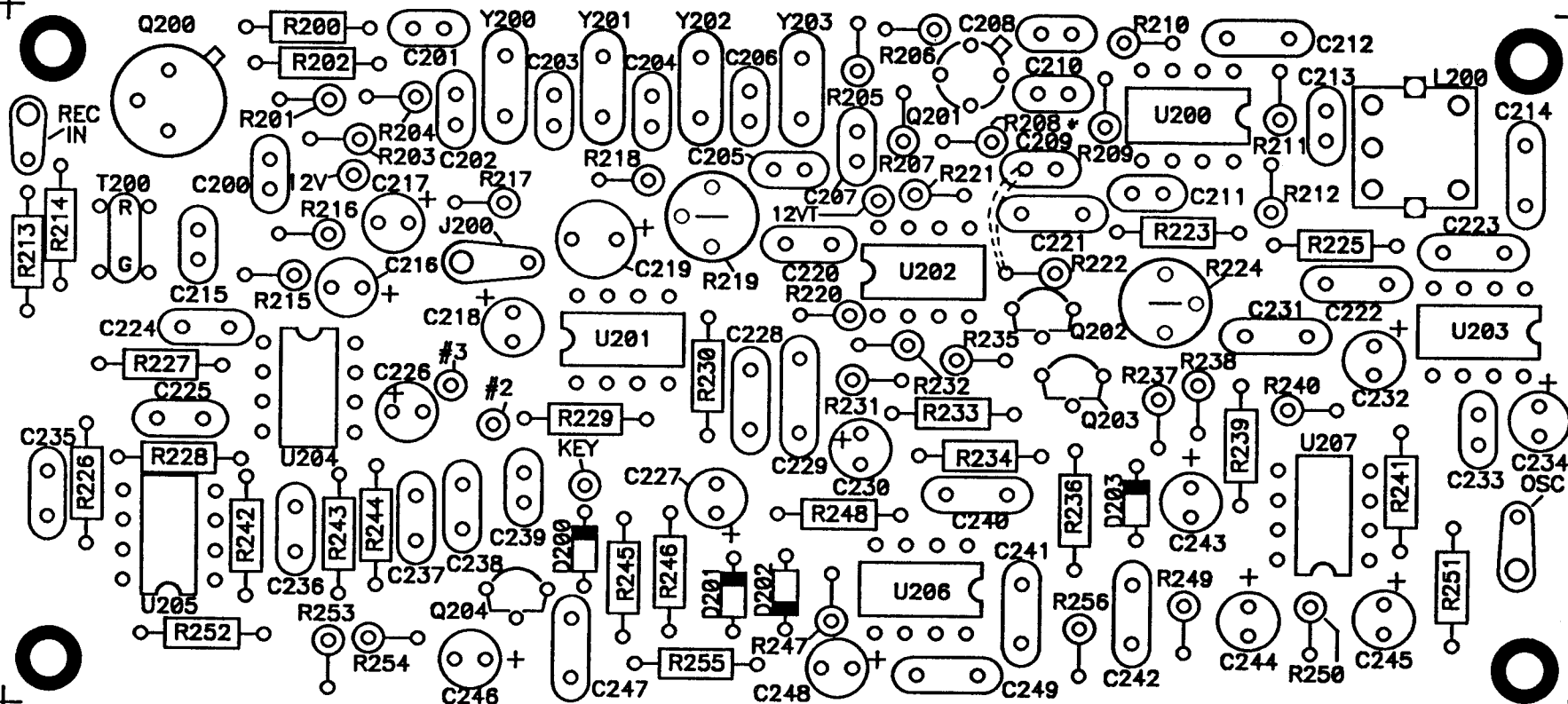
POSITION U100 THIS WAY ON BOARD

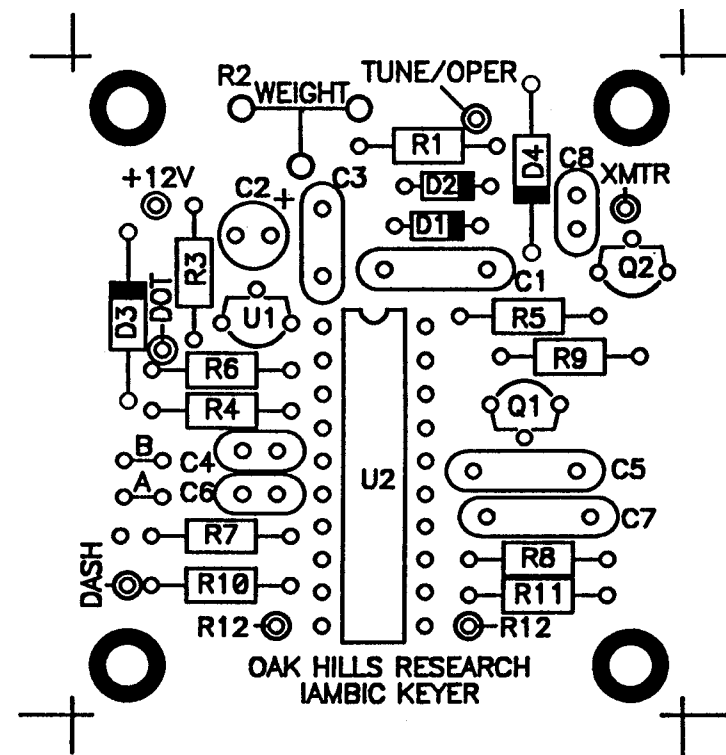


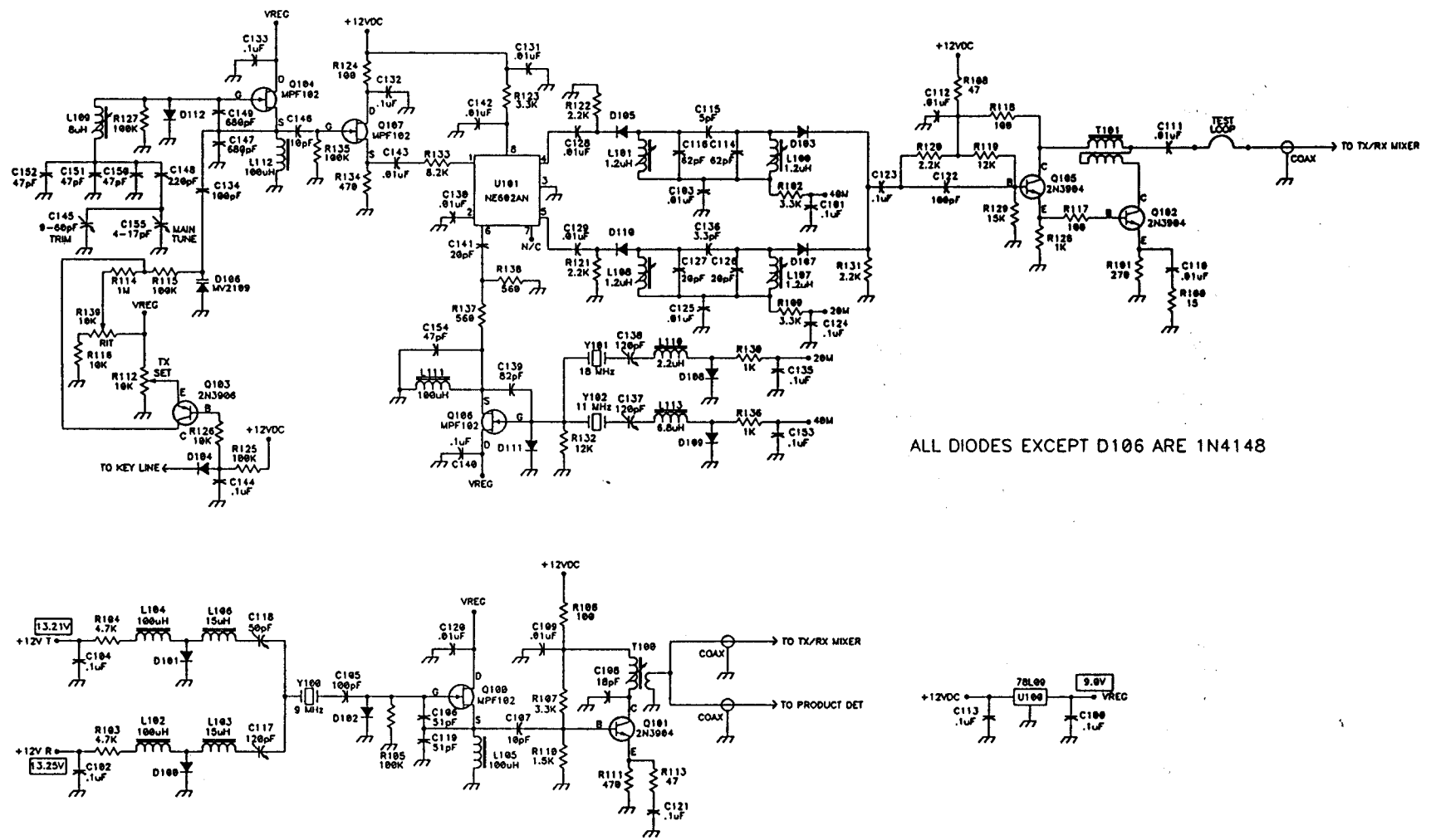
40-108
OSCILLATOR BOARD



40-110
RECEIVER BOARD







ALL DIODES EXCEPT D106 ARE 1N4148

Title				OAK HILLS RESEARCH	
				CLASSIC DUAL BAND TRANSCEIVER	
Size	Number	40-0108		Rev	
C		OSCILLATOR BOARD		B	
Date	1/94	Drawn by		DW	
Filename	CLAS10SC.S01	Sheet		1 of 3	

