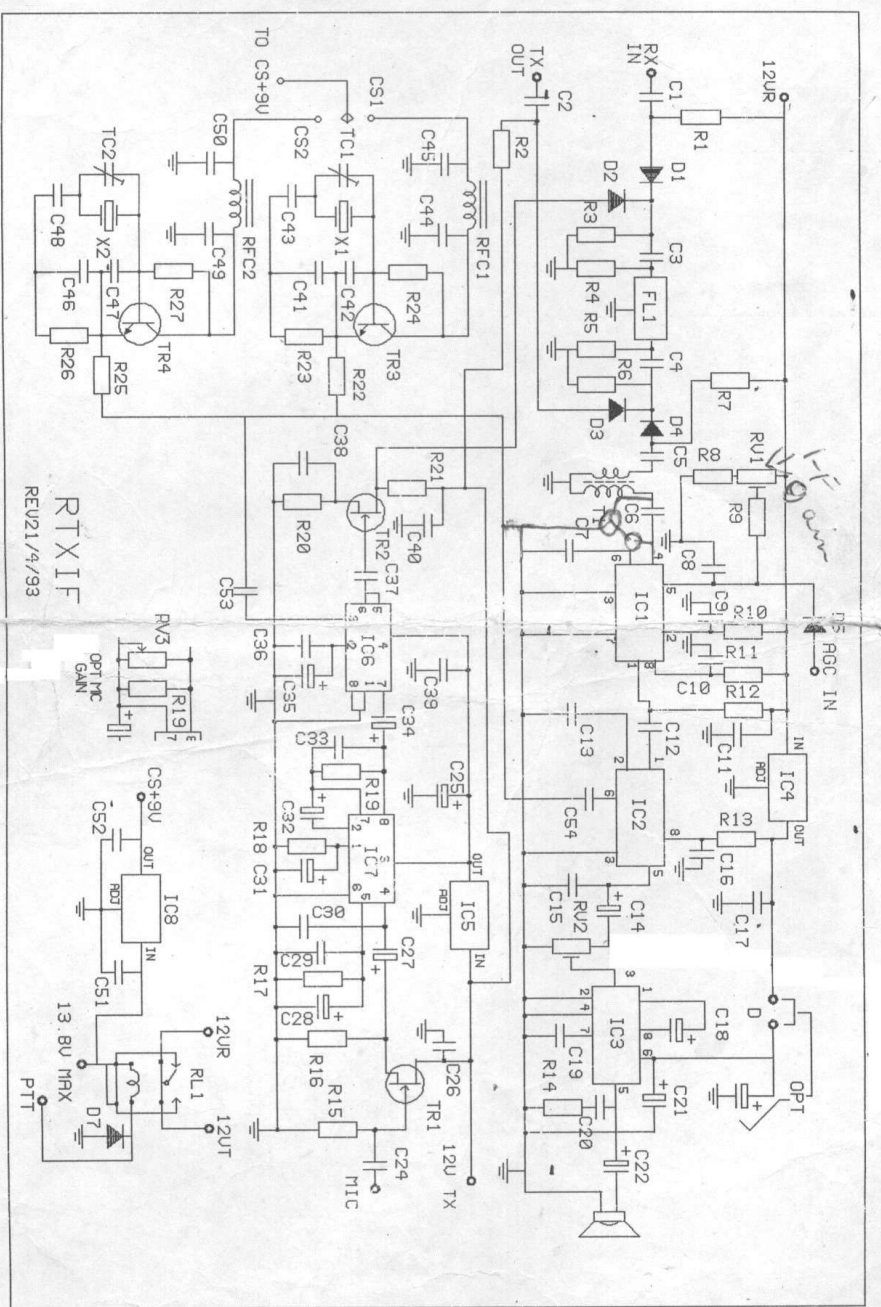


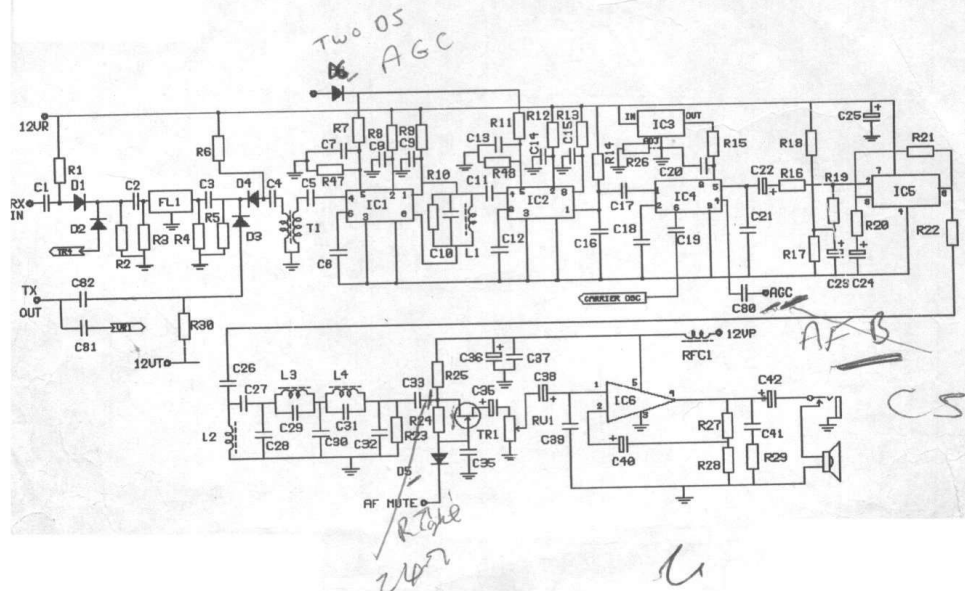
- Apply audio via the microphone and monitor TX OUT at 9mhz or the frequency of the mixer output. Adjust TC1/2 for best audio versus filter response.

Parts List RTXIF

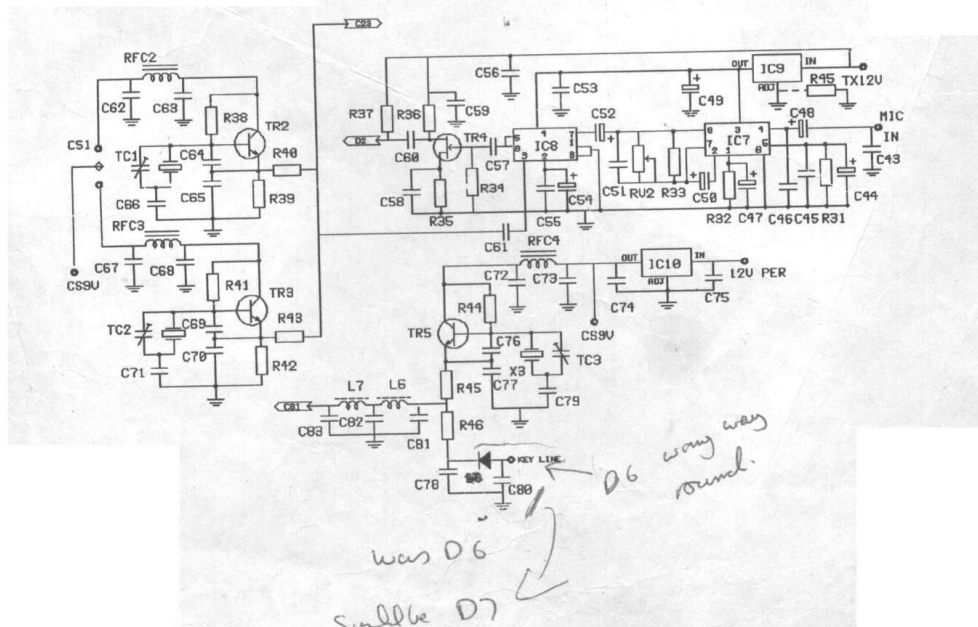
R1,2,3,6,7,	10K	C25,31	47MFD 16V
R4,5,21,23,26	470R	C27,28,32	2.2MFD 16V
R10,11,12 13,20	100R	C29,30,44,49	1N [102] 1000 pf
R8,19	4k7	C35	4.7MFD 16V
R9	27k	C41,42,47,46	150P
R14	5R6	C43,48	27P
R15,17	47K	TC1,2	30P MURETA [GREEN]
R16,22,25	1K	IC1	MC1350P
R18	1M	IC2	NE602A
R24,27	220K	IC3	LM386
RV1	4K7	IC4	7806
RV2	10K	IC5	78L06
C7,8,9, 10,11,16,		IC6	SL1640
17,20,24,26,36 39,45,50,51,52	100N [104]	IC7	SL6270
C12	100P [101J]	IC8	78L06
C1,2,3,4,5,6,13,15,33		TR1	2N3819
37,38,40 53,54	10N [103]	TR2	J310
C14,34	1MFD 16V	TR3,4	2N2222
C18	10MFD 16V	D1-4	BA244
C19	Not used	D5,7	1N4148
C21,22	100MFD 16V	D6	deleted
C23	470P [N470 or 471]	RFC1,2	1mh 7BS [102J]
		RL1	OUC [blue]
		T1	K37X830 [6.3MM dia]

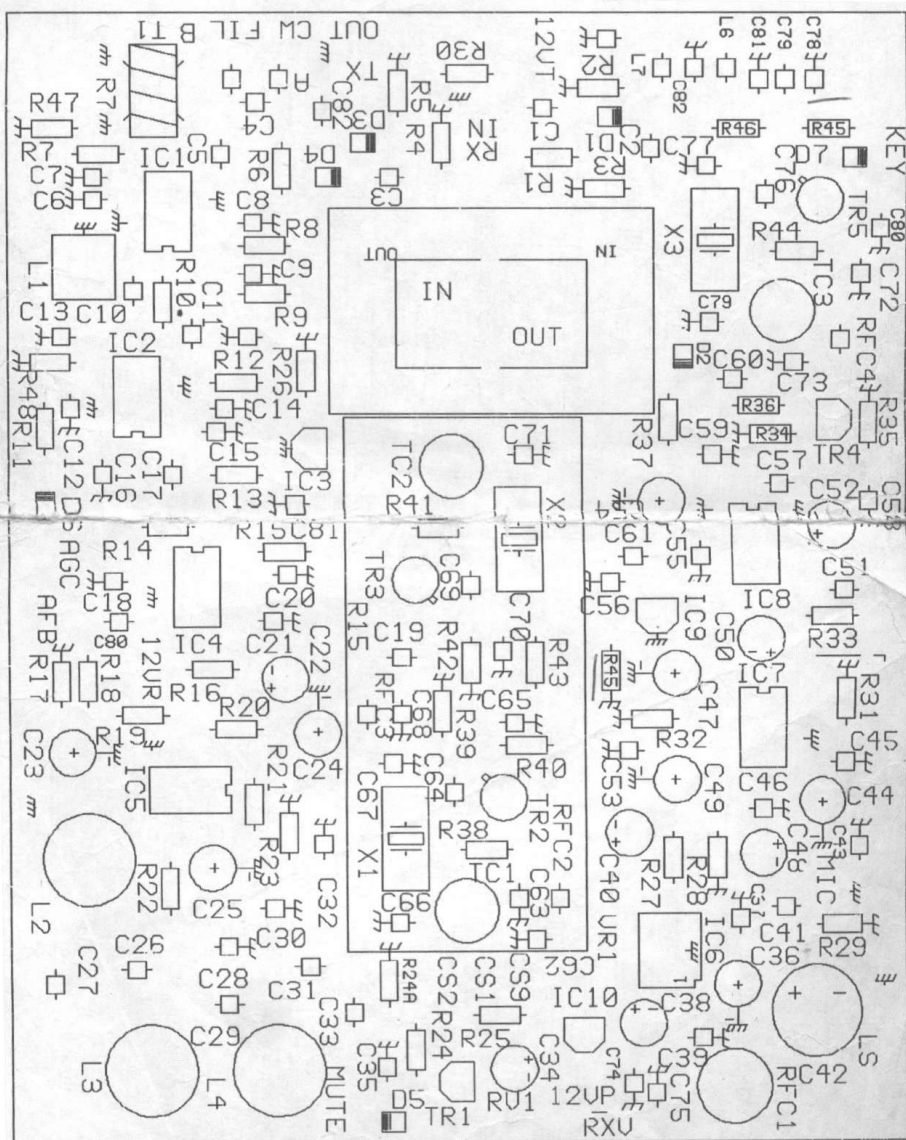


FILTER, RX IF, AUDIO



TX IF, BFO, CW CIO





PARTS LIST IF2

R1,2,5,6,16,17,18,30,37	10K	C39	180P
R3,4,36,39,45,47	470R	C42	470MFD
R7,8,9,11,12,13,14,15,35,42	100R	C43	470P
R10,33	4K7	C45,46,63,68,73	1N
R19,20,21	100K	C47,49	47MFD
R22	1K5	C52	1MFD
R23	1K8	C54	4U7
R24,32	1M	C64,65,69,70,76,77	150P
R27	220R	C66,71,79	27P
R28	5R6	<u>C81,83</u>	18P
R29	1R8	C82 47P	
R31	47K	TC1,2,3	3-30P GREEN
R34	470K	IC1,2	MC1350P
R38,41,44	220K	IC3,9	78L05
R40,43	1K	IC4	NE602AN
RV1	10K LOG	IC5	TL071
RV1	10K LOG OPTIONAL	IC6	TDA 2003
C1,2,3,4,518,19,21,37,51 57		IC7	SL6270
58,59,60,61,75,81,82	10N	IC8	SL1640
C6,7,8,9,12,13,14,15,16		IC10	78L09
20,30,33,35,41,53,55,56		TR1	2N3819
62,67,72,74,78,80	100N	TR2,3,5	2N2222
C10	82P	TR4	J310
C11,17	100P	D1,2,3,4	BA243
C22	1MFD	D5,6,7	1N4148
C23,25,36,40	100MFD	T1	K37X830
C24	10MFD	RFC1	0082K 8RBSH
C26,27	0.33MFD POLY BOX	RFC2,3,4	1MH 7BS
C28	82N	L1	292CNS T1040Z 7KM
C29	4N7	L2	390MH 10RBH
C31	15N	L3	82MH 10RBH
C32	68N	L4	68MH 10RBH
C38,48,44,50,34	2U2		

SEMICONDUCTOR PINOUTS



NE602A
MC1350P
TL071
SL6270
SL1640
TOP VIEW



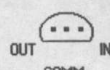
2N2222A
VIEW FROM
BELOW



J310
VIEW FROM
BELOW



TDA2003
FRONT VIEW



78L06
VIEW FROM
ABOVE

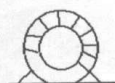


7806
FRONT VIEW

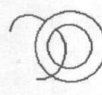
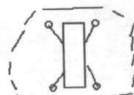
signal at RX IN or connect a mixer board to provide off-air signals and check for de-modulation. Adjust L1 for max signal.

- If a frequency counter is available adjust X1 or 2 to their marked frequency with the trimmer TC1 or 2, the counter is best connected to pin3 of IC4.
- If no counter is available use a strong off air signal and adjust for TC1/2 for the best audio/ filter response. Do not be too critical as the main adjustment is best made in transmit mode.
- If necessary re-connect the multimeter to monitor supply current and key the ptt line. Expect a reading of 90ma. If the current is greatly in excess of this check the transmit section for faults.
- Apply audio via the microphone and monitor TX OUT at 9mhz or the frequency of the mixer output. Adjust TC1/2 for best audio versus filter response.
- Ground the key line and adjust TC3 for the CW cio frequency. For a beat note of 700hz this should be 9.0009 [ie rx bfo 9001600hz-700hz]

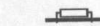
COMPONENT MOUNTING



MOUNTING METHOD FOR TRANSFORMERS
AND INDUCTORS



THIS IS 1 TURN
ON A TOROID



MOUNT COMPONENTS
LIKE THIS



NOT LIKE THIS



SOLDER XTAL CANS
TO GROUNDPLANE



WHEN THIS SYMBOL
IS SHOWN



MOUNT THE COMPONENT
LIKE THIS



OR LIKE THIS