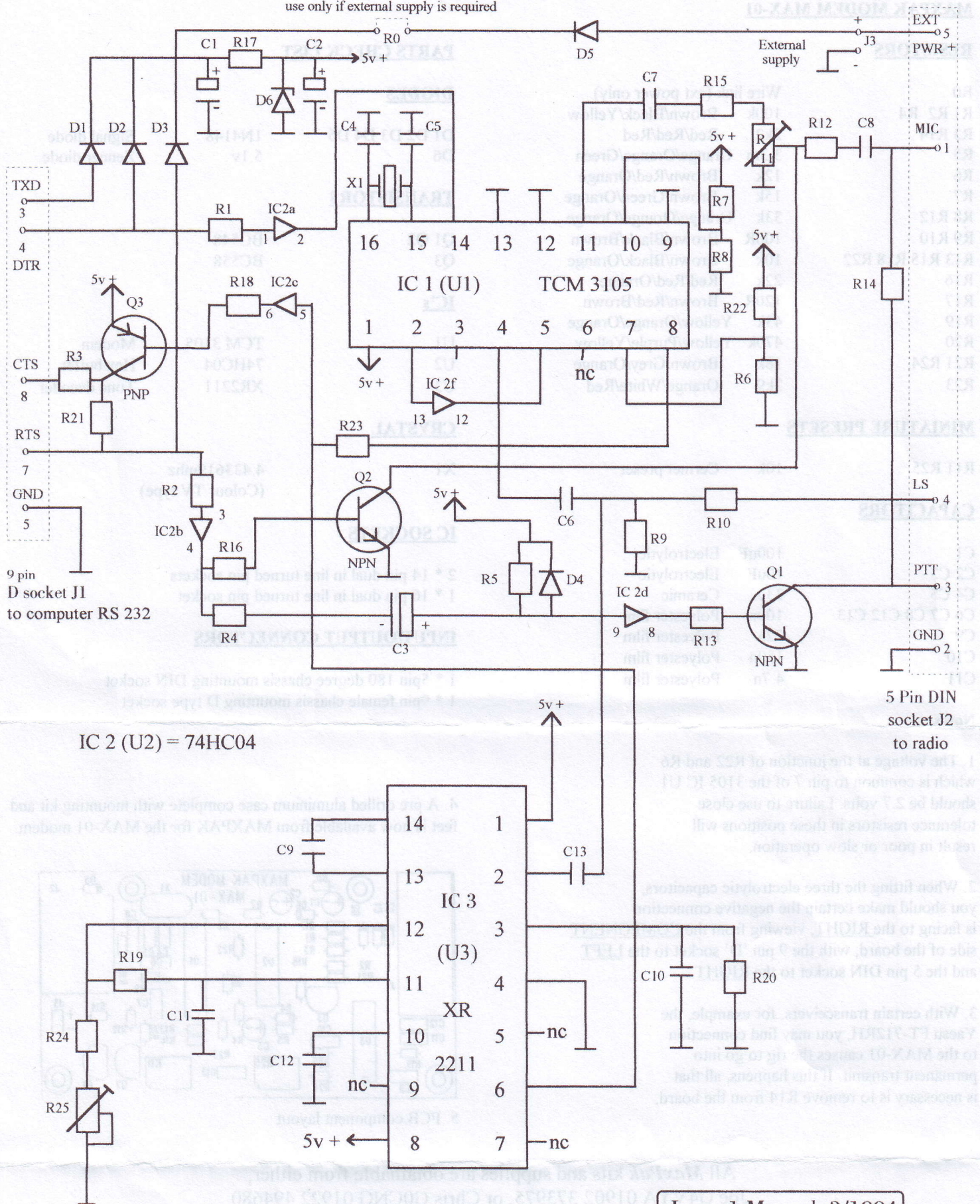


MAXPAK MODEM MAX-01

R0 is a wire link
use only if external supply is required



Issue 1 Maxpak 3/1994

MAXPAK MODEM MAX-01

RESISTORS

R0	Wire link (ext power only)
R1 R2 R4	100k Brown/Black/Yellow
R3 R14	2k2 Red/Red/Red
R5	3.3m Orange/Orange/Green
R6	12k Brown/Red/Orange
R7	15k Brown/Green/Orange
R8 R12	33k Orange/Orange/Orange
R9 R10	100R Brown/Black/Brown
R13 R15 R18 R22	10k Brown/Black/Orange
R16	22k Red/Red/Orange
R17	120R Brown/Red/Brown
R19	43k Yellow/Orange/Orange
R20	470k Yellow/Purple/Yellow
R21 R24	18k Brown/Grey/Orange
R23	3k9 Orange/White/Red

MINIATURE PRESETS

R11 R25	10k Cermet preset
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CAPACITORS

C1	100uF Electrolytic
C2 C3	10uF Electrolytic
C4 C5	33p Ceramic
C6 C7 C8 C12 C13	100n Polyester film
C9	22n Polyester film
C10	150n Polyester film
C11	4.7n Polyester film

Notes.

1. The voltage at the junction of R22 and R6 which is common to pin 7 of the 3105 IC U1 should be 2.7 volts. Failure to use close tolerance resistors in these positions will result in poor or slow operation.

2. When fitting the three electrolytic capacitors, you should make certain the negative connection is facing to the RIGHT, viewing from the COMPONENT side of the board, with the 9 pin 'D' socket to the LEFT and the 5 pin DIN socket to the RIGHT.

3. With certain transceivers, for example, the Yaesu FT-712RH, you may find connection to the MAX-01 causes the rig to go into permanent transmit. If this happens, all that is necessary is to remove R14 from the board.

PARTS CHECK LIST

DIODES

D1 D2 D3 D4 D5	1N4148	Signal diode
D6	5.1v	Zenner diode

TRANSISTORS

Q1 Q2	BC548
Q3	BC558

IC's

U1	TCM 3105	Modem
U2	74HC04	Hex buffer
U3	XR2211	Tone decoder

CRYSTAL

X1	4.433619mhz (Colour TV type)
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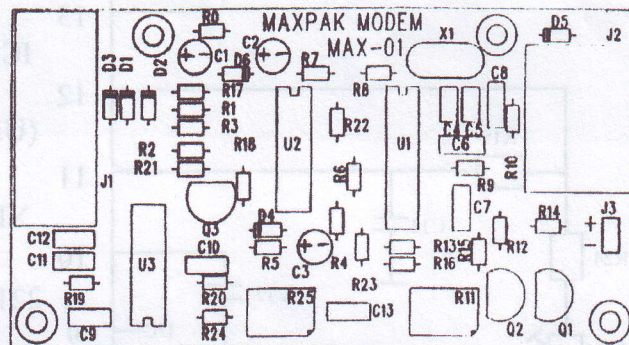
IC SOCKETS

- 2 * 14 pin dual in line turned pin sockets
- 1 * 16 pin dual in line turned pin socket

INPUT/OUTPUT CONNECTORS

- 1 * 5pin 180 degree chassis mounting DIN socket
- 1 * 9pin female chassis mounting D type socket

4. A pre drilled aluminium case complete with mounting kit and feet is now available from MAXPAK for the MAX-01 modem.



5. PCB component layout