connections are more than a few centimetres long, then a screen will need to be fitted so that the two leads cannot "see" each other, and spoil the preselector rejection.

The leads feeding +12V to each oscillator need to be run in screened audio cable, and short lengths of miniatur coaxial cable should be used for the inter-PCB wiring.

Alignment

There are two ways of aligning the unit. The first, if you haven't any test equipment, is purely to tune up for best received signal. The better way is to firstly adjust L3 until oscillation occurs (monitor the current taken by the +12V line for a sudden peak), then back the core off slightly so that the oscillator fires reliably when switched on and off. With a diode probe connected ro the oscillator output, adjust TC1 and TC2 for maximum reading (the trimmers will be near minimum

COMPONENT LISTING **RESISTORS** All resistors 0.25W 5% carbon film unless noted otherwise. R1.2 47R 1 watt **R3** 3R3 1 watt R4 330k R5,14,22,23,37* 1k R6,38 4k7 R7,8,18,21,34* 100R R9 56R R10 100K R11,17,33 10K R12 22K R13,36*

390R

not used

1K5

18R

27R

27R

4R7

2k2

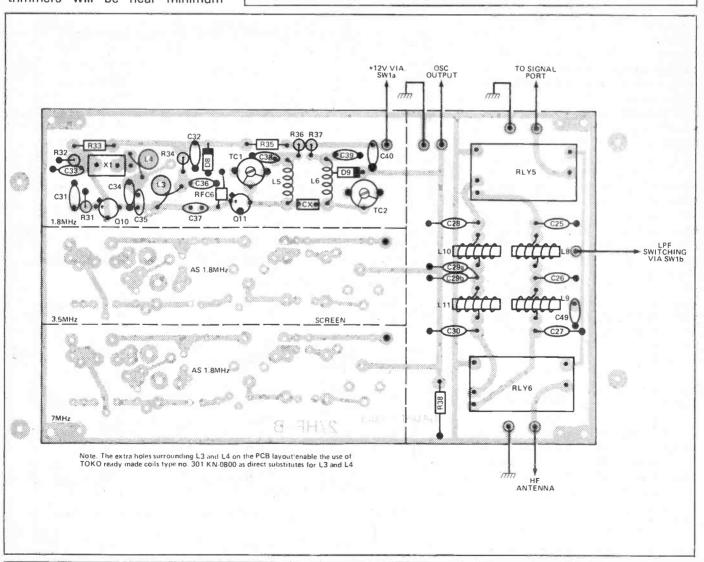
10R

68R

220R

330R

150R



R15,29,30

R16

R19

R20

R24

R25

R26,35*

R27,28

R39,40

R41,42

R31*

R32*