



Fig 7 : Component layout of the main receiver PCB.

16 pins to the front panel. Secure the potentiometers P1 and P2 by fitting the shaft nuts.

After putting the receiver RX-137-141 into operation you can fit it into a suitable plastic or metal box with apertures for the display and controls. The antenna and power supply connectors are at the rear of the box. Fig 13 shows the receiver mounted in a suitable box.

8.

Setting-up of the receiver

Connect a stabilised power supply, of 9 - 12V, to the input connector U12. Ensure

the centre connector is positive and the outer is ground. Using a voltmeter measure +5V at the stabilised output of IC5. If there are problems with the noise properties of the receiver, check the stabilised voltage using an oscilloscope. If there is noise on the supply the stabiliser must be replaced.

The procedure for commissioning and tuning of the rf components will depend on the instruments available to the individual constructors [22]. The receivers board is already fitted with all components except the intermediate frequency filters F1 and F2. Do not fit the micro-computer IC3 and synthesiser IC4 into their sockets. Turn the potentiometer P1 (SQL) completely to the left, this will put the squelch out of operation. Do not