Replacement of SD5400 mixer I.C.

This device is quite easily replaced without requiring any special equipment other than a small soldering iron.

1) Remove bottom cover (6 screws -no.2 supadrive).
2) Remove top cover (4 countersunk screws -2.5mm hex). Take care not to pull on the speaker wires when lifting the cover up. These wires can be removed by lifting up the black section of the connector into which they are fastened.
3) Remove right hand side panel (1 countersunk hex screw on front panel,
1 screw on rear panel,
2 screws on underside of PCB).
The side panel will pull out side-ways easily with these screws removed.
4) Locate the SD5400 at the front right hand side of the set labelled Q17. This is situated between the two black six legged transformers and is **not** the device nearest to the front panel.
5) Remove the solder from the SD5400 legs using solder wick.(If you haven't used solder wick before; place a length of it across the legs to be de-soldered, run the soldering iron along the length of the wick leaving it in contact long enough to allow the solder to melt and flow into the wick. A few seconds is normally required above each pin.). The device is not glued in place so once the solder has been removed from its pins, it should come away from the board easily.
6) Replace the SD5400 positioning pin 1 (indent on chip) closest to C41 and C44. Solder this in place (this device is quite robust but take care not to over-heat the pins). At this point, it may be a good idea to loosely refit the speaker wires and check the radio to ensure that all is operating correctly.
7) Refit side panel.
8) Refit the speaker wires pressing the black locking pieces firmly in place. Refit the top cover taking great care not to strip the threads when tightening the screws. Only very slight pressure is required on these. Note; It is important to fit this cover before the bottom cover as tightening the bottom cover also causes the top cover to lock in place.
9) Refit bottom cover.

Test the receiver to confirm that the work has been done correctly.