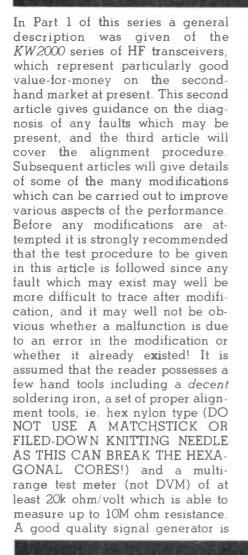
Upgrading the KW220000 series of HF transceivers





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Making good the wear and tear

also useful although not essential unless the alignment has been severely tampered with. A dummy load and some means of measuring RF output power (eg. an SWR meter) are also required, and a general coverage receiver is useful if the 2000 has been badly misaligned.

Initial test procedure

In this section a complete test procedure is given which should be adopted with a newly acquired rig to verify that all sections are operating correctly before any modifications are attempted. If a fault is found at any stage during the testing it should be repaired before proceeding any further with the tests. The causes and cures for various commonly encountered faults are given later in this article.

The transceiver should first be removed from its case by removing all four feet on the underside of the cabinet and then gently sliding the chassis forward to clear the case. At this stage it is as well to have a completely clear bench on which to work. Next the power supply and a suitable aerial system should be connected, and the transceiver switched on and allowed to warm up for 5-10 minutes. Following the list in Table 1, the various controls should be checked for smoothness of operation and absence of crackles or any intermittency of operation, checking through the bands on receive only from 28MHz to 1.8MHz, placing a tick in the right-hand box of Table 1 if a control is considered to be working correctly, and noting any faults found in the centre column. There is no point in continuing until there is a complete set of ticks since the same ground may have to be covered twice if any problems are ignored at this stage. It is useful to keep the check list for future reference in case of the recurrence of a fault; this will save the repeated investigation of the same problem!

Next the transmitter's basic operation should be checked. The