Service bulletin

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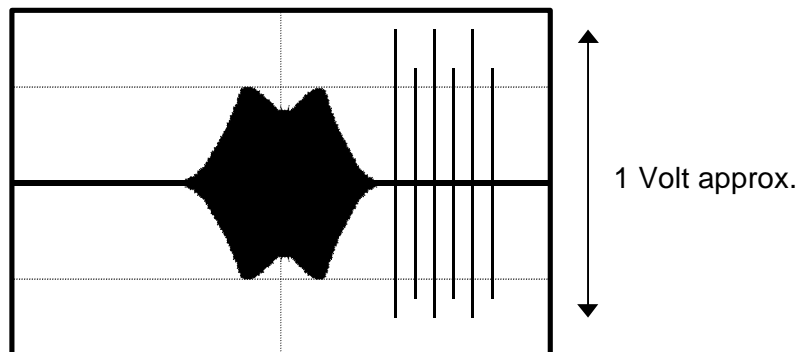## SUBJECT: X-2 Software Release

The X-2 transceiver software, 90-20515-002 V2.10 provides Morse capability for the X-2 transceiver. Its use, however, has implications for users of the XP Programming Software and for Service personnel using the inbuilt alignment facilities. These are described below.

Service Personnel

In the X-2 Technical Service Manual, step 3 of Section 7.7.1 "45MHz filter alignment - method 1" refers to the use of a "470 uF 16V electrolytic capacitor in series with an 18 ohm resistor". This resistor should be increased to 27 ohm. You may notice a secondary display on your oscilloscope which may not be apparent with earlier software versions (as depicted below) - this is of no consequence, although you may wish to adjust your oscilloscope's timebase to remove it. No other operation is affected.

1 Volt approx.

XP Programming Software Users

When the XP Programming Software reads the transceiver memory contents (Alt-R operation), the transceiver's software part number and version numbers are not correctly displayed (the position where these are normally displayed will contain meaningless characters or remain blank). No other operation is affected.

X-2 Transceiver Users

Normal operation of the X-2 transceiver is unaffected by the above.