AUGNMENT INSTRUCTIONS ALGEMENT PATRICTIONS

A cathode-ray oscilloscope and a frequency-modulated signal generator are required for proper alignment. Sychronize the scope externally with the signal generator. Set Send-Receive switch to Receive, the Limiter "off", the HAN-AVC-BFO switch to MAN. position and the crystal selectivity switch to "off" position. Set band spread dial at 200, gain and sensitivity controls at maximum and output from signal generator no higher than is necessary to obtain output reading. Use insulated alignment screwdriver. BAND SWITCH POS. .54-1.32 MC RADIO DIAL SETTING SIGNAL GENERATOR COUPLING SCOPE CONNECT ADJUST REMARKS Adjust for maximum ampli-tude, symmetry and pat-tern coincidence on the High side to pin #4 (grid) of the third IF tube (5 Low side to High side to pin 5 of 6HG. 1 MFD. 455KC .54MC A1,A2, or 6H6. Low side to chassis chassis Adjust to obtain symmetrical, coinciding curve with as much amplitude as possible without disturbing High side to pin #4 (grid) of the second IF tube (4). Low side to A3.A4 chassis.
High side to pin
#4 (grid) of the
first IF tube (3) the pattern.
Adjust for maximum amplitude at center of curve. first IF tube (3) Low side to chassis. Adjust to obtain symmetri-cal coinciding curve with as much amplitude as poss-ible without disturbing the pattern. This should result in a tall selectiv-ity curve with a slightly flattened peak. Pin 5 (ose grid) should be grounded to obtain clearer mattern. High side to grid A6 .A7. of 6K8. Low grid) should be grounded to obtain clearer pattern. Turn crystal selectivity switch to position \$1, set crystal phasing point-er on arrow. Keep input signal low to prevent overloading. Adjust &8 for maximum amplitude and symmetry. Switch crystal selectivity to position #2 and adjust phasing control slightly from the arrow position, if necessary, to obtain identical images.

Adjust the signal generator frequency to obtain coincidence of the images, and if complete coincidence is not obtained, alternately make slight adjustments of the phasing control and the signal generator frequency, until images coincide.

These last steps have determined the exact frequency of the quartz crystal and the frequency setting of the signal generator should be left undisturbed. With signal generator at this setting turn crystal "off" and repeat carefully the complete IF alignment proceedure.

The BFO may be adjusted if necessary by adjusting A35 for zero beat with beat oscillator setting at zero. zero The following adjustments should not e unless s positive eadjustment is necessary. t be ma that maximum output. 200 MMF High side to extend ant. Low side to chassis. Connect output meter a-cross voice coll. Adjust for maximum output. Repeat last two steps un-til no further increase is -6MC A10 -6MC Adjust for maximum output Adjust for maximum output 1.25MC 6MC Repeat last two steps u til no further increase is obtained. Adjust for maximum output. .6MC .6MC 3.0MC 3.2 400 ohm 1.32 M Adjust for maximum output. Repeat last two steps un-til no further increase is 1 - 4MC A 15 1.480 obtained.
Adjust for maximum output.
Adjust for maximum output. 3.OMC 3.OMC A16 1.4MC 1.4MC Repeat last two steps u til no further increase is obtained. Adjust for maximum output 1.4MC 5.5MC 1.4MC 5.5MC 3.2-5.7 Adjust for maximum output A20 3.5MC 3.5MC eat last two steps u no further increase Adjust for maximum output Adjust for maximum output Repeat last two steps until no further increase is obtained obtained. 5.5MC obtained. ust for maximum output A23 10.0MC 5.7-10.0 10.0MC 124 Adjust for maximum output 6. OMC 6.OMC Repeat last two steps un-til no further increase 1s obtained.
Adjust for maximum output A25 10.0MC 10.0MC Adjust for maximum output Repeat last two steps un-til no further increase 1s obtained. Adjust for maximum output A26 6.OMC 18 OMC A27 10.0-18 0 MC 18.0MC Adjust for maximum output Repeat last two steps until no further increase is obtained.

Adjust for maximum output Adjust for maximum output Repeat last two steps until no further increase 10.0MC 10.0MC 128 18.0MC 10.0MC A29 A30 is obtained. Adjust for maximum output A31 30.0MC 30.0MC 18.0-31 0 MC for 18.0MC TR. OMC Adjust for maximum occur. Repeat last two steps un-til no further increase is obtained. Rock tuning capacitor and output for maximum output A33 30.0MC 30.0MC Adjust for maximum output Repeat last two steps un-til no further increase is obtained. 18.0MC 18.0MC Λ34