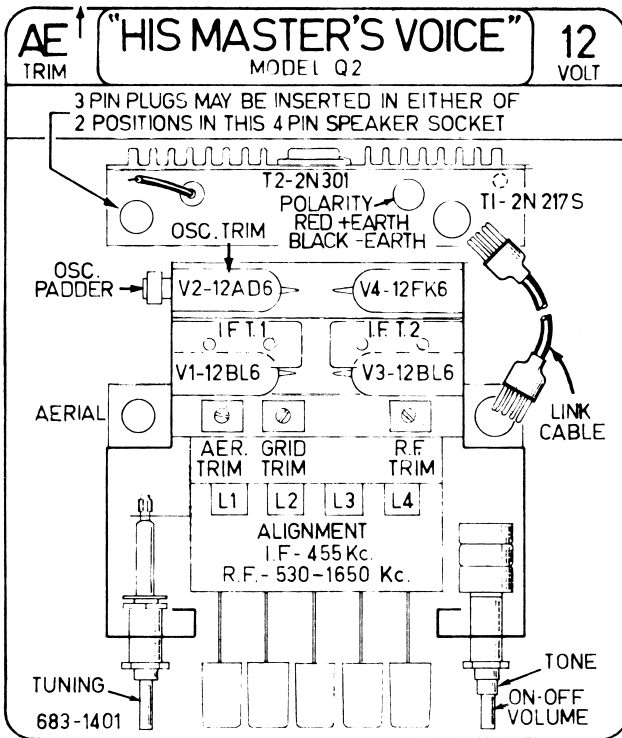
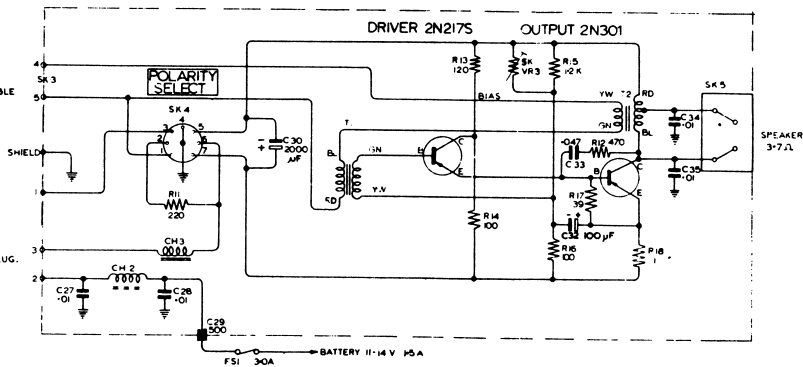
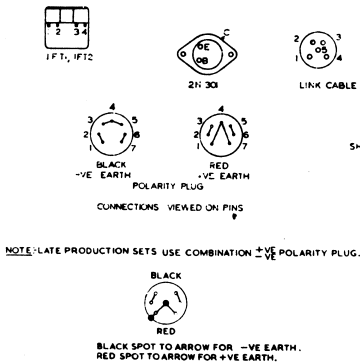
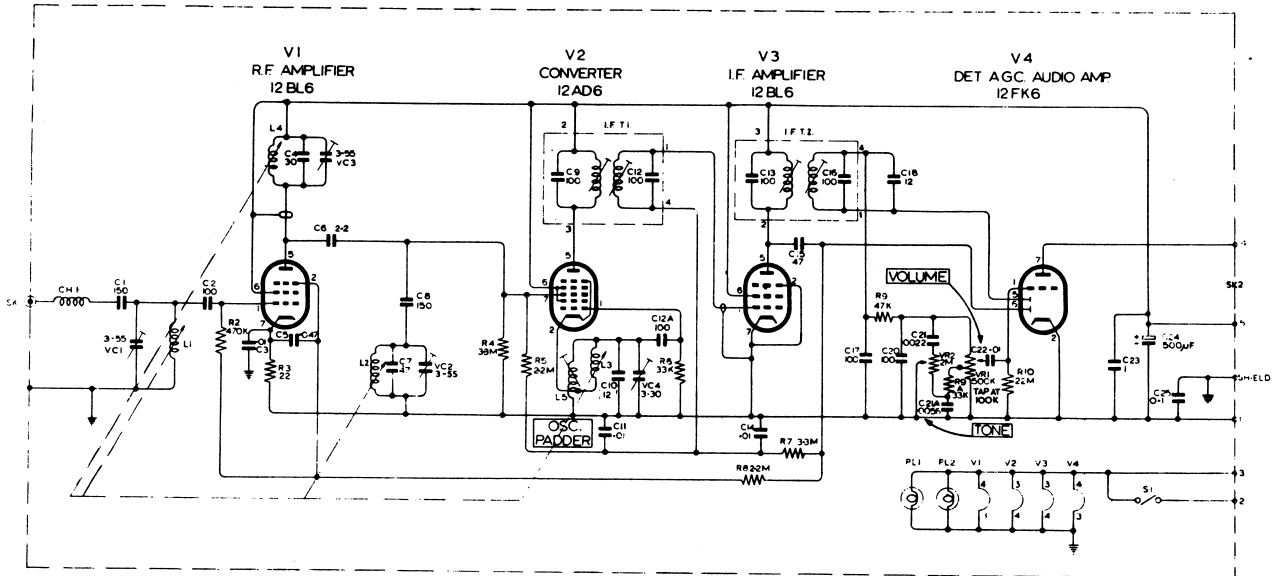


RECEIVER AND POWER UNIT
MODEL Q2





UNLESS OTHERWISE STATED
CAPACITOR VALUES MORE THAN 1 μF
CAPACITOR VALUES LESS THAN 1 μF
RESISTORS
K: 1000 M: 1000000

CIRCUIT DIAGRAM — Q2 MODIFIED

ALIGNMENT

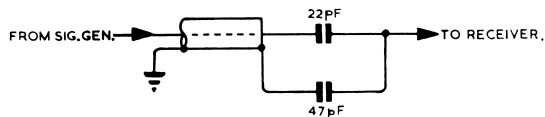
Use a Signal Generator modulated 30% at 400 cps for all alignment.

I.F. ALIGNMENT:

- (1) Remove control unit from its metal case.
- (2) Connect signal generator, via 0.1 uF capacitor, to the grid of the converter valve (pin 7 of V2).
- (3) Turn Volume and Tone controls fully clockwise.
- (4) Set pointer to extreme left, H.F. end, tuning carriage fully out.
- (5) With signal generator tuned to 455 Kc/s, tune IFT.2 Secondary, IFT.2 Primary, IFT.1 Secondary, IFT.1 Primary, in that order, for maximum output.
- (6) Repeat sequence for optimum alignment. I.F. sensitivity for 160 milliwatts output should be approximately 70 uV (0.8 volts across 4 ohm voice coil).

R.F. ALIGNMENT:

- (1) Slide chassis back into metal case.
- (2) Connect signal generator to aerial input socket via dummy aerial as shown below.



- (3) Rotate Volume and Tone controls fully clockwise.
- (4) Tune receiver manually to the high frequency end of the band (pointer extreme left), then depress the left-hand push-button until the clutch is disengaged. The pointer should move a little to the right and lie behind the white line on the dial scale. Adjust if necessary with tool shown. Maximum allowable calibration error is one pointer width.
- (5) Accurately tune the signal generator to 1650 Kc/s. and adjust oscillator trimmer for maximum response. (Philips' trimmer located on rear section of chassis).

require attention. These are adjustable from the front of the chassis and are set as follows:

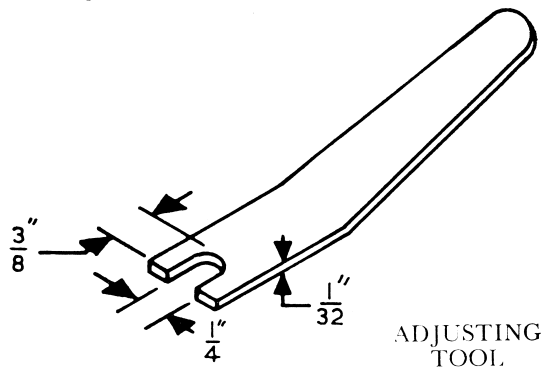
Tune signal generator and receiver to 1000

(6) Tune signal generator and receiver to 1500 Kc/s. (white line on dial scale) and adjust aerial, grid and R.F. trimmers. (Compression trimmers located on underside of chassis at rear of tuning unit).

(7) Tune signal generator and receiver to 600 Kc/s. (white line on dial scale) and adjust oscillator padder coil (located at rear of chassis), with a non-metallic alignment tool, for maximum response, while rocking tuner through signal.

(8) Repeat steps 5 and 6 and, if necessary, repeat 7.

(9) Accurately tune signal generator and receiver to 1000 Kc/s. and note that pointer lies behind 1000 Kc/s. mark on dial scale when receiver is tuned for maximum output. If there is a calibration error greater than one pointer width, set centre push-button on 1000 Kc/s., remove cover from set and adjust eccentric at rear end of pointer arm with tool shown below.



This operation may slightly detune the receiver. Retune accurately to 1000 Kc/s. by depressing centre push-button.

(10) Seal oscillator, grid and R.F. trimmers with wax. Do not seal aerial trimmer.

NOTE: Input to receiver should not be greater than 3 microvolts to obtain 0.8 volts output at 600, 1000 and 1,500 Kc/s. If sensitivity cannot be achieved at all frequencies by alignment as described, the tuning coil slugs may

Kc/s. (white line on dial scale), then adjust aerial, grid, and R.F. cores for maximum response. (L1, L2 and L4).