

PYE 906 INTERNATIONAL

Four valve, plus rectifier, eight waveband, table model superhet, with push-buttons for stations, band-spread and wave-band switching. Suitable for A.C. supplies. Made by Pye, Ltd., Radio Works, Cambridge.

Circuit.—There are four buttons for pre-set stations; two for M. and L.W.; and six for the 49, 31, 25, 19, 16 and 13 metre bands. L 4 and T 1 are an I.F. filter across the aerial; L 1 and L 2 are the L. and M.W. aerial coils, tuned by VC 1 and L 9, L 11, the corresponding oscillator coils tuned by VC 2. L 2 is an aerial coupler coil.

Buttons 1 and 2 switch trimmer capacities into the aerial circuit and permeability coils into the oscillator circuit for M.W. pre-set stations. Buttons 3 and 4 do the same for two L.W. stations.

The band-spread S.W. buttons connect coupled aerial and grid coils into the aerial circuit and permeability oscillator coils. Band-spread tuning is by VC3 in the oscillator circuit. V1 is the frequency-changer and V2 the I.F. amplifier. The I.F. coils are permeability tuned. A push-button connects a P.U. across the volume control and shorts out the radio. The V.C. is tone compensated and allied to a negative feedback network in the output circuit. The triode section of V3 resistance-capacity feeds V4, the output pentode.

V5 is a full-wave rectifier with both the speaker field and a choke for smoothing. Provision for 2-4 ohm extra speaker. Power consumption, 87 watts.

GANGING

I.F. CIRCUITS.—Adjust I.F. trimmers at 462 kc.

I.F. FILTER.—Inject 462 kc. to aerial. Adjust T1 for minimum.

M.W. BAND.—Inject 200 m., adjust T2 and T3. At 520 m., pad with T4, rocking gang.

L.W. BAND.—Inject 1,000 m., adjust T5 and T6. At 1,800 m., pad with T7, rocking gang.

BAND-SPREAD CIRCUITS.—These are adjusted by tuning in a reliable station on each band and then adjusting the appropriate oscillator coil to get the station at the right place on the scale. If large adjustment is necessary, select peak with screw farthest in.

Then adjust aerial and grid trimmers for maximum and image trimmer for minimum while rocking gang for maximum.

Adjustments can be made with injected frequencies instead of stations.

GANGING

Band (metres)	Osc. coil.	Ae.	Grid.	Image.	Inject. (Mc.)
18	L23	T8	T9	—	21.56
16	L22	T10	T11	T12	17.8
19	L21	T13	T14	T15	15.2
25	L20	T16	T17	T18	11.8
31	L19	T19	T20	T21	9.6
49	L18	T22	T23	T24	6.07

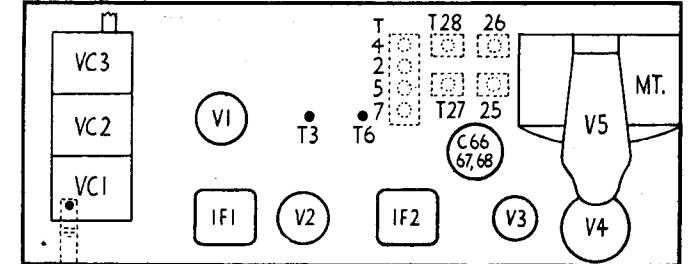
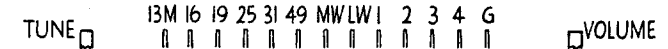
PUSH-BUTTONS

Button.	Range (m.)	Ae. trim.	Osc. trim.
1	195-395	T28	L8
2	260-560	T27	L7
3	1,150-2,000	T26	L6
4	1,150-2,000	T25	L5

WINDINGS

L	Ohms.	L	Ohms.
1	13.5	11	1.8
2	2	12	1.9
3	35	13	2
4	15	14	800
5	5.65	15	92
6	5.65	16	260
7	2	17	310+17.8
9	5.9		I.F.s
10	4.1		P. & S.

Other Pye tables, column 5, page 25



T1, L4 BELOW

