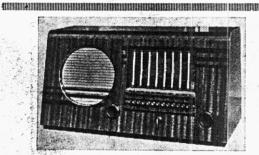
"TRADER" SERVICE SHEET

430

PYE 1906

INTERNATIONAL AC SUPERHET



HE provision of six SW bandspread circuits is the most outstanding feature of the Pye International 906 receiver. In addition, two MW and two LW pre-set stations are provided for, besides the usual manual tuning circuits.

All waveband and station selector switching, together with that for pick-up change-over, is controlled by thirteen press-buttons.

The receiver is a 4-valve (plus rectifier) 8-band superhet, suitable for use with 200-250V, 40-100 C/S mains.

Release date: July, 1939.

CIRCUIT DESCRIPTION

All the switches associated with the press-button unit have, as in previous issues, been coded so as to indicate their functions: all switches bearing the same number belong to the same group and are operated by the same press-button; those bearing the suffix a, b or c close when their button is pressed; those with the suffix x, y or z open. When the button is released by depression of another button, the converse is the case.

Two groups are controlled by each button: one in the aerial circuit, and the corresponding group in the oscillator circuit

For MW and LW operation, aerial input is via switch \$12Y, the appropriate group switches and coupling coil L2 (MW) or condensers C1, C2 (LW) to single tuned circuits comprising L3 (MW) or L4 (LW) tuned by C43 (manual) or pre-set trimmers C39 to C42 (auto).

For SW operation, input is via \$12Y as before (except on 13m band), appropriate switch group and coupling circuit, to pre-tuned circuits which each cover a given short-wave band, without variable tuning in the aerial circuit. These circuits are peaked near the middle of their bands.

All the x switches in the aerial circuit form a series between the frequency changer control grid and the required switch group; on gram, when all tuning buttons are "out," they connect that control grid to the AVC line.

First valve (V1, Mullard ECH3) is a triode hexode operating as frequency changer with internal coupling. Triode oscillator anode coils are connected in turn via the x series, and in each case are tuned.

For manual tuning, L27 (MW) and L28 (LW) are tuned by C66; parallel trimming by C64 (MW) and C14, C65 (LW); series tracking by C12, C62 (MW) and C13, C63 (LW). Reaction by grid coils L25 (MW) and L26 (LW) via S19c and S20c and L19, L17.

For automatic tuning, permeability-cored coils L29, L30 (MW) and L31, L32 (LW) are connected in turn between

oscillator anode and, via C16, chassis; the tuning capacity is provided by fixed condenser C15. Reaction coupling is effected by the common capacity of C16, which is connected in the grid circuit via L17, L19 and one of the switches S21b to S24b.

For SW operation, the permeability-cored bandspread coils L18, L20, L21,

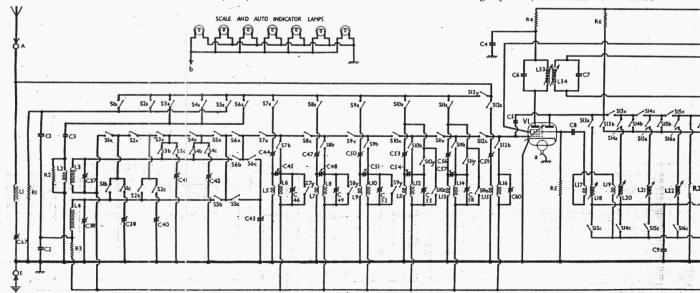
For SW operation, the permeability-cored bandspread coils L18, L20, L21, L22, L23 and L24 are connected in turn between the anode and, via C9, chassis, and tuned by variable bandspread condenser C61 in parallel with "tank" capacity C10. Reaction coupling is effected by the common capacity of C9, which is connected in the grid circuit via L17, L19 and one of the switches S13c to S18c. L17 (13m band) and L19 (16m band) provide additional reaction coupling on these two bands.

ling on these two bands.

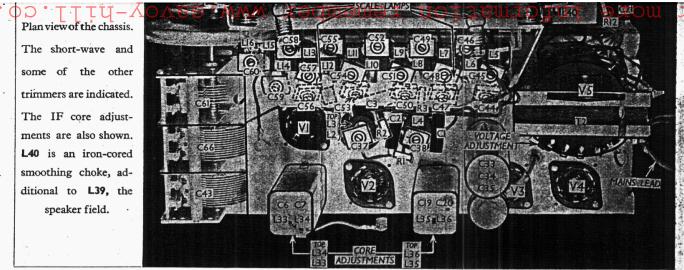
When any of the SW bands is in operation, the normal oscillator anode resistance value is reduced by the addition of R7, in parallel with R6; when the 25m, 31m or 49m band is in circuit, R27 is connected between anode and chassis

Second valve (V2, Mullard EF9) is a variable-mu RF pentode operating as intermediate frequency amplifier with tuned-primary tuned-secondary variable iron cored transformer couplings C6, L33, L34, C7 and C19, L35, L36, C20. Intermediate frequency 462KC/S.

Diode second detector is part of double diode triode valve (V3, Mullard EBC3). Audio frequency component in rectified output is developed across load resistances R10, R11; that across R11 is passed via \$25x, C22 and manual volume control R13 to CG of triode section. IF filtering by C24, R10 and C25. Tone



Circuit diagram of the Pye International AC superhet. Apart from the RF and oscillator section, the



compensation by R12, C21 and S26. Fixed tone control by C28.

Provision for connection of gramophone pick-up via \$25a, C22 across R13. Second diode of V3, fed from V2 anode via C23, provides DC potential

which is developed across load resistances R19, R20 and fed back through decoupling circuits as GB to FC and IF valves, giving automatic volume control. Delay voltage, together with GB for triode section, is obtained from drop along R14.

Resistance-capacity coupling by R17, C29 and R21 between V3 triode and pentode output valve (V4, Mullard EL6). Four-position tone control by C30, R23, C31 and switches S27, S28 in anode circuit, and S26, S29.

When S29 is closed, some of the

When S29 is closed, some of the output from T1 is developed across R24, C32; that across C32 is also developed across R15, so that negative feed-back

coupling is established in V3 cathode circuit. When S29 is open, no current flows through R24, C32, and the feedback circuit is inoperative.

Provision for connection of external speaker by socketed plugs connecting internal speaker across T1, so that internal, external, or both speakers may be used.

HT current is supplied by full-wave rectifying valve (V5, Mullard AZ2). Smoothing by iron cored choke L40, speaker field L39, and dry electrolytic condensers C33, C34, C35.

Fixed GB voltage for V1 and V2, and GB for V4, are obtained from drop along resistances R25 and R26 in negative HT lead to chassis.

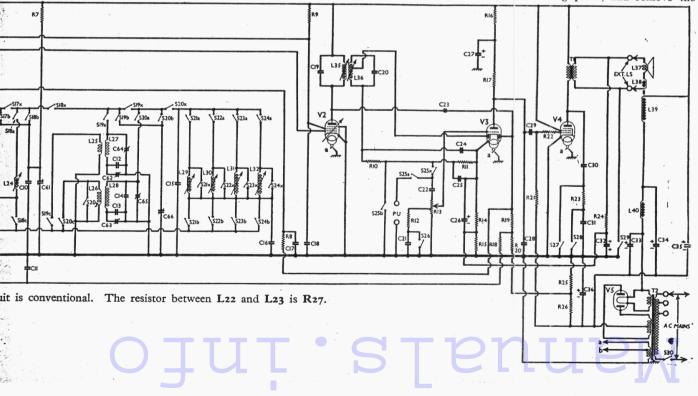
DISMANTLING THE SET

The cabinet is fitted with a detachable bottom, upon removal of which access may be gained to most of the components beneath the chassis. Removing Chassis.—Remove the three control knobs (pull off) from the front of the cabinet and the four bolts (with metal cup washers) holding the chassis to the bottom of the cabinet, when the chassis can be withdrawn to the extent of the speaker leads, which is sufficient for normal purposes.

To free the chassis entirely, unplug the speaker leads and remove the two field coil leads from the connecting panel on the speaker.

When replacing, connect the black field coil lead to the left-hand terminal on the speaker connecting panel, and the red lead to the right-hand terminal. A felt washer should be placed between each control knob and the cabinet.

Removing Speaker.—Withdraw the speaker plugs from their sockets on the chassis, disconnect the field coil leads from their terminals on the speaker connecting panel, and remove the four



Radio

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round-head woodscrews holding the speaker to the sub-baffle.

When replacing, see that the speaker connecting panel is at the bottom, and connect the leads as previously indicated.

COMPONENTS AND VALUES

o de la constante de la consta	RESISTANCES '	Values (ohms)
R 1	LW aerial shunt	10,000
R 2	MW aerial shunt	10,000
R 3	Part aerial coupling	10,000
R 4	V1 hexode anode decoupling	1,000
R 5	V1 osc. CG resistance	50,000
R 6	V1 osc. anode HT feed	30,000
R. 7	V1 osc. anode SW HT feed	100,000
R 8	V2 CG decoupling	1,100,000
R. 9	V1, V2 SG's HT feed	20,000
R10	V3 signal diode load re-	110,000
R11	sistances	260,000
R12	Part of tone compensator	50,000
R13*	Manual volume control	1,000,000
R14	V3 triode GB; AVC delay	1,000
R15	Negative feed-back coupling	25
R16	V3 triode anode decoupling	15,000
R17	V3 triode anode load	30,000
R18	AVC line decoupling	1,100,000
R19	V3 AVC diode load resist-	510,000
R20	ances	510,000
R21	V4 CG resistance	510,000
R22	V4 grid stopper	25,000
R23	Part of tone control	3,000
R24	Part neg. feed-back feed	200
R25	V1, V2 fixed GB, and V4	25
R26	GB resistances	50
R27	V1 osc. anode shunt	80,000

*Tapped at 250,000 O from chassis end.

CONDENSERS C1 Aerial circuit LW coupling (apped at 250,000 O from chassi	s end.
C 3			
C 3	C 1	Aerial circuit LW coupling	0.0025
C 3	C 2	condensers	0.0025
C 4	C 3	Aerial MW coupling con-	0.00007
C 7	~ .		
C 7	C 4		
C 8 VI osc. CG condenser 0-0001 C 9 Oscillator reaction coupling 0-0003 § C10 Bandspread fixed capacity 0-0003 § C12 Osc. circuit MW tracker 0-0005 C13 Osc. circuit LW tracker 0-0001 C14 Osc. circ. LW fixed trimmer 0-00001 C15 Osc. circ. LW fixed trimmer 0-00001 C16 Preset reaction coupling 0-0001 C17 V2 CG decoupling 0-0005 C18 V1, V2 SG's decoupling 0-0025 C18 V1, V2 SG's decoupling 0-0025 C20 Part of tone compensator 0-0013 C21 AF coupling to V3 AVC diode 0-0001 C22 C25 LF by-pass condensers 0-0001 C24 V3 cathode by-pass 0-0001 C27* V3 triode anode decoupling 20-0 C30* Parts of tone control filter 0-01 C32* Part negative feed-back feed 4-0 C33* Aerial MW manual trimmer	0.0	Neutralising condenser	
C 8 Oscillator reaction coupling C10 Oscillator reaction coupling C11 V1 hex. CG decoupling Oom S1 Oom		tuning condensers	
Oscillator reaction coupling O-0003 s O-0003 s O-0005		VI osc CG condenser	
Bandspread fixed capacity 0-0003		Oscillator reaction coupling	
Output		Bandspread fixed capacity	
C12		V1 hex. CG decoupling	0.025
Osc. circuit preset fixed tuning capacity Preset reaction coupling O-0025 O-025		Osc. circuit MW tracker	
Osc. circuit preset fixed tuning capacity Preset reaction coupling O-0025 O-025		Osc. circuit LW tracker	
C16		Osc. circ. LW fixed trimmer	
C16	C15		0.0005
18	CHE	Procest resection counting	0.009
C18			
C20		V1 V2 SG's decoupling	
C20		2nd IF transformer fixed	
Part of tone compensator 0-01		tuning condensers	
C22 AF coupling to V3 AVC diode 0-0005 C24 Coupling to V3 AVC diode 0-00002 C25 V3 cathode by-pass 0-0001 C27* V3 cathode by-pass 20-0 C28 Fixed tone corrector 0-003 C39 Parts of tone control filter 0-01 C33* Part negative feed-back feed 8-0 C35* C36* Auto GB by-pass 6-0 C371 Aerial MW manual trimmer 16-0 C372 Aerial LW manual trimmer		Part of tone compensator	
C25		AF coupling to V3 triode	
C26* V3 cathode by-pass		Coupling to V3 AVC diode	
V3 cathode by-pass		IF by-pass condensers	
C27* V3 triode anode decoupling 2-0 C28 Fixed tone corrector 0-003 C30 V3 triode to V4 AF coupling 0-05 C31 Parts of tone control filter 0-05 C33* Part negative feed-back feed 4-0 C33* HT smoothing condensers 8-0 C35* Auto GB by-pass 0-0 C37* Aerial MW manual trimmer 0-0 C39* Aerial LW manual trimmer 0-0 C40* Aerial circuit LW auto 0-0 C41* Aerial circuit MW auto 0-0 C42* Aerial circuit MW auto 0-0 C44* 49m aerial coupling 0-0 C45* 49m aerial coupling 0-0 C46* 49m aerial circ. trimmer 0-0 C49* 31m aerial circ. trimmer 0-0 C49* 31m aerial circ. trimmer 0-0 C50* 25m aerial circ. trimmer 0-0 C51* 25m image neut. trimmer 0-0 C54* 19m image neut. trimmer 0		()	
C28			
Parts of tone control filter 0-01 C324	C28	Fixed tone corrector	
Parts of tone control filter 0-05		V3 triode to V4 AF coupling	
C32*			0-05
C33* C34* HT smoothing condensers 8.0 16.			
C34* Auto GB by-pass 20-0		Part negative feed-back feed	
Auto GB by-pass 16-0		TITE amounthing and demand	
C364		HI smoothing condensers	
C33t		Auto GB by-pass	
C38±		Aerial MW manual trimmer	
C401	C38‡	Aerial LW manual trimmer	_
Aerial circuit MW auto			
C421	C40‡	tuning trimmers	-
C431 Aerial circ. manual tuning	C411	Aerial circuit MW auto	
C441 49m aerial coupling C451 49m image neut. trimmer C462 49m aerial circ. trimmer C471 31m aerial coupling C482 31m image neut. trimmer C502 25m aerial circ, trimmer C511 25m image neut. trimmer C521 25m aerial circ, trimmer C531 19m aerial coupling C531 19m aerial coupling C541 19m image neut. trimmer		() tuning trimmers (
C45‡ 49m image neut. trimmer — C46‡ 49m aerial circ. trimmer — C47‡ 31m aerial coupling — C48‡ 31m image neut. trimmer — C49‡ 31m aerial circ. trimmer — C50‡ 25m aerial coupling — C51‡ 25m image neut. trimmer — C52‡ 25m aerial circ. trimmer — C53‡ 19m aerial coupling — C54‡ 19m image neut. trimmer —		49m serial counting	1 1
C46‡ 49m aerial circ. trimmer C47‡ 31m aerial coupling C48‡ 31m image neut. trimmer C49‡ 31m aerial circ. trimmer C50‡ 25m aerial coupling C51‡ 25m image neut. trimmer C52‡ 25m aerial circ. trimmer C53‡ 19m aerial coupling C54‡ 19m image neut. trimmer C54‡			
C47t		49m aerial circ. trimmer	_
C48‡ 31m image neut, trimmer C49‡ 31m aerial circ, trimmer C50‡ 25m aerial coupling C51‡ 25m image neut, trimmer C52‡ 25m aerial circ, trimmer C53‡ 19m aerial coupling C54‡ 19m image neut, trimmer C54‡ 19m imag	C47‡	31m aerial coupling	_
C521 25m aerial circ. trimmer —		31m image neut. trimmer	_
C521 25m aerial circ. trimmer —		31m aerial circ. trimmer	
C521 25m aerial circ. trimmer —		25m aerial coupling	
C53: 19m aerial coupling — C54: 19m image neut, trimmer —	Coll		
C54‡ 19m image neut. trimmer —		19m serial coupling	
		19m image neut trimmer	_
	C551	19m aerial circ. trimmer	

1	1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CONDENSERS (Continued)	Value (µF)
	C561 C571 C581 C591 C601 C61	16m aerial coupling 16m image neut. trimmer 16m aerial circ. trimmer 13m aerial coupling 13m aerial circ. trimmer Bandspread tuning con-	
	C62‡ C63‡ C64‡ C65‡ C66† C67‡	denser Osc. circuit MW tracker Osc. circuit LW tracker Osc. circuit LW trimmer Osc. circuit LW trimmer Oscilator manual tuning Aerial IF filter tuning	

 $^{\bullet}$ Electrolytic. † Variable. † Pre-set. § 0-0001 μF and 0-0002 μF in parallel. † T.C.C. type F.W. reversible electrolytic.

Approx.values (ohms)								
L2		OTHER COMPONENTS						
L3			15.0					
L4		coil	35.0					
L5	122	tuning	2.0					
1.6	-							
L7		1) 10m nomint notice						
L9		31m aerial coils	2.5					
L11		25m aerial coils {	1.0					
1-13	L11	19m aerial coils	1.0					
13m aerial coils	L13	16m aerial coils	1.0					
13m oscillator coils Very low Very low Uzy L21	L15	13m aerial coils	0.5					
16m oscillator coils Very low	L17	13m oscillator coils	Very low					
L21 19m oscillator coil Very low L22 25m oscillator coil Very low L23 31m oscillator coil Very low Very low Very low Very low L25 Osc. LW manual reaction L26 Osc. LW manual reaction L27 Osc. LW manual tuning L28 Osc. LW manual tuning L30 Sec. circuit MW present Sec. Circuit MW present Sec. Circuit LW present Sec. Se	L19	11	Very low					
L23	L21		Very low					
L25	L23	31m oscillator coil	Very low					
L26								
L27	L26		1.9					
L28	L27	osc. MW manual	4.1					
Dec. Dec.		tuning	1.8					
L30								
L31								
L32								
1st IF trans. Pri. 7.5								
134 1st 1f trans. Sec. 7.5 1st 1f trans. Sec. 7.5 1st 1f trans. Pri. 7.5 1st 1f trans. Sec. 7.5 1st 1f 1f trans. Sec. 7.5 1st 1f								
2nd IF trans. Pri. 7.5								
L36		(Sec.						
L38 Speaker speech coll 2.0		2nd IF trans. Pri.	7.5					
L38 Speaker speech coll 2-0 L38 Hum neutralising coil 0-1		Sec. total	7.5					
		Speaker speech con	2.0					
Los (Speaker neid con (800-0								
	L39	Speaker field coil	800.0					

отн	Approx. values (ohms)	
 L40 T1	HT smoothing choke Output (Pri. trans. Sec.	92·0 260·0 0·2
Т2	Mains Pri. total Heater sec.	. 17·8 0·1
Sla, b, c	trans. Rect. heat. sec. HT sec., total	0·1 310·0
x to S6a, b, c, x	band and manual/ auto change switches	
S7a, b, x y to S12a, b, x, y	Aerial circuit SW band selector switches	
S13 a, b, c, x to S18 a, b, c, x	Oscillator circuit SW band selector switches	_
S18 a, b, c, x S19 a, b, c, x S20a, b, c, x, y	22002200 .	, , ,
S21a, b, x to S24a, b, x	Oscillator circuit auto tuning selector switches	
S25a, b, x	Radio/gram change switches	-
S26-S29 S30	Tone control switches Mains switch ganged R13	_

VALVE ANALYSIS

Valve voltages and currents given in the table below are those measured in our receiver when it was operating on mains of 233 V using the 216-235 V tapping on the mains transformer. The receiver was tuned to the lowest wave-length on the MW band, and the volume control was at maximum, but there was no signal input.

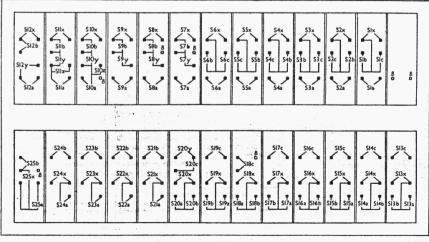
Voltages were measured on the 400 V scale of a model 7 Universal Avometer, chassis being negative.

Valve	Anode	Anode	Screen	Screen
	Voltage	Current	Voltage	Current
	(V)	(mA)	(V)	(mA)
V1 ECH3 V2 EF9 V3 EBC3 V4 EL6 V5 AZ2	235 Oscil 25 241 117 222 354+	4·5 lator 3·1 11 2·5 6·7	114 114 241	3·7 2·8 8·0

+ Each anode, AC.

GENERAL NOTES

Switches.—All the switches, except the tone control and mains switches, are associated with the press-button unit. Their action is indicated by the coding of their numbers: each button controls two groups of switches: one in the aerial circuit and one in the oscillator circuit; each group is identified with a number; each switch of a group bears that number and a suffix letter. If the suffix letter is a, b or c, the switch closes when its button is pressed; if it is x, y or z, the switch opens.



Two diagrams of the press-button switch unit. Above, as seen from above the chassis, and below, as seen from beneath the chassis.

one position only, in the following order, starting from fully anti-clock wise: \$27, \$28, \$26, \$29.
\$30. — This is the QMB mains switch, ganged with the volume control R13.

Coits.—L1 is the aerial IF filter coil, mounted with its tuning condenser on the rear member of the chassis.

L2, L3, L4.—These are in two half-screened tubular units on the

L2, L3, L4.—These are in two half-screened tubular units on the chassis deck, with their associated trimmers and coupling components. The aerial circuit bandspread coils L5 to L16 are disposed in numerical order along a horizontal unscreened tubular former, which also carries the seventeen associated trimmers C44 to C60, along the front edge of the chassis deck. The oscillator bandspread coils L17 to L24, and the four MW and LW pre-set station coils L29 to L32 are in ten unscreened tubular units in two groups mounted on the front the four the fou

unscreened tubular units in two groups mounted on the front member of the chassis, beneath the press-button unit. They are indicated, with their core adjustment screws, in our underchassis view.

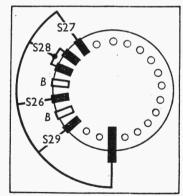
The table below gives the waveband coverage of the four pre-set circuits numbering from left to right, looking at the front of the receiver, and the frequency and wavelength ranges of each of the bandspread circuits.

COIL TABLE

	` '	
Button	Wavelength range	Frequency range
1	Gram	
2	1,150-2,000 m	
	1,150-2,000 III	
3	1,150-2,000 m	
4	260- 560 m	
.5	195- 395 m	
6	LW manual	
7	MW manual	
8	48·0–50·0 m	6.25- 6.0 MC/S
9	30·6–31·9 m	9.8- 9.4 MC/S
10	24·8-25·8 m	12·1-11·6 MC/S
11	19·3-20·1 m	15·5-14·9 MC/S
12	16·5-17·1 m	18-2-17-5 MC/S
13	· 13·7-14·2 m	21.9-21.2 MC/S

The manual tuning oscillator coils L25 to L28 are on a single unscreened tubular former beneath the chassis.

The IF transformers L33, L34 and L35, L36 are in two screened units on the chassis deck with their fixed tuning condensers. They are shown in our plan view, where the core adjustments are also indicated.



The tone-control switch unit, seen from the rear of the underside of the chassis.



Under-chassis view. Trimmers and core adjustments are indicated.

Scale and Indicator Lamps.—These are seven Ever Ready MES types with round bulbs, rated at 6V, 0.5 A. They are fed from tapping b on T2 LT secondary.

External Speaker.—This may be connected by inserting its plugs in the sockets in the internal speaker plugs, if both speakers are required. Otherwise, if it is desired to mute the internal speaker for plugs may be inserted in the speaker sockets at the rear of the chassis, after the internal speaker plugs have been removed. The external speaker plugs have been removed. The external speaker should have a low resistance (2-4 O) speech coil.

Condensers C33, C34, C35.—These are three dry electrolytics (500V working) in a single tubular metal case. The common negative is a black rubber lead emerging from the centre of R21 and R26. The red tag is the positive of R31 and R26. The red tag is the positive of C34 (8_HF); the yellow tag the positive of C35 (16_HF).

Condenser C32.—This is a 4_HF T.C.C. type F.W. reversible electrolytic condenser.

Chassis Divergencies.—R6 is given in the makers' circuit as 15,000 O. R1, R7 and R27 are not shown in the makers' diagram.

CIRCUIT ALIGNMENT

IF Stages.—Press the LW manual button. Connect signal generator via a 0.01_uF condenser between control grid (top cap) of VI, leaving existing connection in place, and chassis. Connect a 500,000 O resistance directly across the generator output. Feed in a 462KC/S signal, and adjust the cores of L33, L34 and L35, L36.

Disconnect resistance and condenser and

Disconnect resistance and condenser, and transfer signal generator to A and E sockets via a suitable dummy aerial. Feed in a 462 KC/S signal, and adjust C67 for minimum

output.

RF and Oscillator Stages.—With the gang at maximum, the line on the pointer should coincide with the marks at the tops of the two end scales. See that the scale panel fits squarely on its clamps. Connect signal generator via a suitable dummy aerial to A and E sockets, turn volume control to maximum, and tone control fully anti-clockwise.

MW.—Press MW button, tune to 200 m. on scale, feed in a 200 m. (150 KC/S) signal, and adjust C64, then C37, for maximum output. Feed in a 520 m. (576 KC/S) signal, tune it in, and adjust C62 for maximum output, while rocking the gang for optimum results.

put, wresults.

results.

LW.—Press LW button, tune to 1,000 m. on scale, feed in a 1,000 m. (300 KC/S) signal, and adjust C65, then C38, for maximum output. Feed in a 1,800 m. (167 KC/S) signal, tune it in, and adjust C63 for maximum output.

mum output, while rocking the gang for optimum results.

Bandspread Circuits.—Press the appropriate SW button, tune in the strongest transmission near the middle of the band covered, then move pointer to where that station is marked on the scale, noting whether this requires an increase or a decrease of tuning capacity: if an increase is required, turn the appropriate oscillator coil core adjustment screw in (clockwise); if a decrease is required. screw the core out (anti-clockwise). If a large movement of the core is necessary, select the peak with the screw farthest in (highest frequency).

If a new aerial coil unit has been fitted, the following procedure should be followed in conjunction with the table below:

TRIMMING TABLE

Band	Osc.	Trimmers			Test
(metr's)	coil	Aerial	Grid	Image	frequency MC/S
13 16 19 25 31 49	L18 L20 L21 L22 L23 L24	C59 C56 C53 C50 C47 C44	C60 C58 C55 C52 C49 C46	C57 C54 C51 C48 C45	21.56 17.8 15.2 11.8 9.6 6.07

Set aerial trimmer ? turn from maximum;

set aerial trimmer a turn from maximum; set grid circuit trimmer a turn from maximum; set image trimmer to minimum. Then adjust as follows, in the same order:

Tune to test frequency on scale, feed in that frequency to A and E sockets, and adjust aerial and grid trimmers for maximum output, while rocking the gang for optimum results.

Increase generator frequency by 924 KC/S, and increases output as necessary adjusting

Increase generator frequency by 924 KC/S, and increase output as necessary, adjusting frequency to peak with set.

Adjust image trimmer for minimum output, while rocking the gang for optimum results. If this operation requires more than a small movement of the trimmer screw, repeat the whole process until this adjustment requires a negligible movement.

STATION SETTING

To adjust the pre-set station circuits, press the appropriate button and adjust the corresponding oscillator coil core (L29-L32), then the aerial trimmer (C39-C42) for maximum output, using the signal from the required station or from the signal generator. If the generator is used, final adjustment should always be made on the actual transmission. Subsequent adjustment of C37 or C38 may necessitate readjustment of trimmers C39-C42.

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