

VALVE ANALYSIS

Valve	Anode Voltage (V)	Anode Current (mA)	Screen Voltage (V)	Screen Current (mA)
V1 210PG	95	0.4	60	1.4
V2 210VPT	83	1.2	60	0.4
V3 220DD	116	1.8	116	1.5
V4 220HPT	100	4.5		

CIRCUIT ALIGNMENT

To avoid AVC action, unsolder the leads from C15, R7 and R11 to V3 valveholder. Turn the volume control to maximum, connect on 0.5 V meter across T1 primary, and short-circuit C23.

IF Stages.—Connect signal generator leads via a 0.1 μ F capacitor to V2 control grid (pin 2) and chassis, feed in a 128 kc/s (2,344 m) signal, and adjust C28 and C29 for maximum output. Transfer signal generator leads to control grid (top cap) of V1 and chassis, and adjust C26 and C27 for maximum output. Now readjust C29, C28, C27 and C26 in that order for maximum output.

RF and Oscillator Stages.—Transfer signal generator leads to A and E terminals, via a dummy aerial or a 0.0002 μ F capacitor, and remove short-circuit from C23. With the gang at minimum, the MW indicator rod should be level with the 200 m calibration mark on the scale.

MW.—Switch set to MW, tune to 214 metres on scale, feed in a 214 m (1,400 kc/s) signal, and adjust C24, then C22 and C20 for maximum output.

LW.—Switch set to LW, tune to 1,000 m on scale, feed in a 1,000 m (300 kc/s) signal, and adjust C25 for maximum output.

Finally, connect up the leads unsoldered from V3 holder, remove tuning meter, and re-wax trimmer heads.

COSSOR - 366A

CAPACITORS	Values (μ F)
C1	Aerial series coupling ... 0.0005
C2	Aerial "top" coupling ... 0.000025
C3	V1 CG decoupling ... 0.1
C4	V1 osc. CG capacitor ... 0.00025
C5	Osc. circ. LW tracker ... 0.00128
C6	Osc. circ. MW tracker ... 0.00175
C7	V1 anode decoupling ... 0.1
C8	V1 anode decoupling ... 0.01
C9	V1, V2 SG's decoupling ... 0.1
C10	AVC line decoupling ... 0.1
C11	IF by-pass ... 0.0001
C12	V3 cathode by-pass ... 0.1
C13	High-note compensator ... 0.0002
C14	AF coupling to V4 ... 0.01
C15	Coupling to V3 AVC diode ... 0.0001
C16	Part tone corrector ... 0.01
C17	HT circuit reservoir ... 2.0
C18*	Auto GB by-pass ... 25.0
C19†	Band-pass pri. tuning ... 0.0005
C20†	B-P pri. MW trimmer ... —
C21†	Band-pass sec. tuning ... 0.0005
C22†	B-P sec. MW trimmer ... —
C23†	Oscillator circuit tuning ... 0.0005
C24†	Osc. circ. LW trimmer ... 0.00003
C25†	Osc. circ. MW trimmer ... 0.00007
C26†	1st IF trans. pri. tuning ... 0.00007
C27†	1st IF trans. sec. tuning ... 0.00007
C28†	2nd IF trans. pri. tuning ... 0.00007
C29†	2nd IF trans. sec. tuning ... 0.00007

* Electrolytic. † Variable. ‡ Pre-set.

RESISTORS	Values (ohms)
R1	V1 osc. CG resistor ... 250,000
R2	Reaction stabiliser ... 5,000
R3	HT feed resistor ... 10,000
R4	V1 osc. anode HT feed ... 10,000
R5	V1, V2 SG's HT feed ... 40,000
R6	AVC line decoupling ... 2,000,000
R7	Manual volume control; V3 signal diode load ... 1,000,000
R8	HT potential divider for AVC delay ... 1,000,000
R9	V3 AVC diode load ... 1,000,000
R10	V4 CG resistor ... 2,000,000
R11	Part tone corrector ... 10,000
R12	V4 grid stopper ... 100,000
R13	V4 GB resistor ... 370
R14	
R15	

OTHER COMPONENTS	Approx. Values (ohms)
L1	Aerial coupling, total ... 12.0
L2	Band-pass primary coils ... 3.0
L3	Band-pass secondary coils ... 12.5
L4	Band-pass secondary coils ... 3.0
L5	Band-pass secondary coils ... 12.5
L6	Osc. MW tuning coil ... 4.5
L7	Osc. LW tuning coil ... 8.0
L8	Osc. MW reaction coil ... 1.5
L9	Osc. LW reaction coil ... 2.5
L10	1st IF trans. Pri. ... 88.0
L11	1st IF trans. Sec. ... 88.0
L12	2nd IF trans. Pri. ... 88.0
L13	2nd IF trans. Sec. ... 88.0
L14	Speaker speech coil ... 2.0
T1	Speaker input trans. ... 250.0
S1-S5	Waveband switches ... Very low
S6	PU switch ... —
S7	LT circuit switch ... —

