

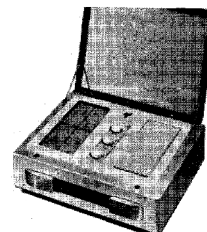
VIDOR - CN411 LIDO

Valve	Anode		Screen	
	V	mA	V	mA
V1 DK91 ...	93	0.4	53	2.0
V2 DF91 ...	93	3.0	67	1.0
V3 DAF91 ...	19	0.07	20	0.012
V4 DL94 ...	89	5.0	93	1.0

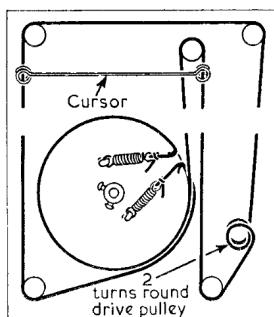
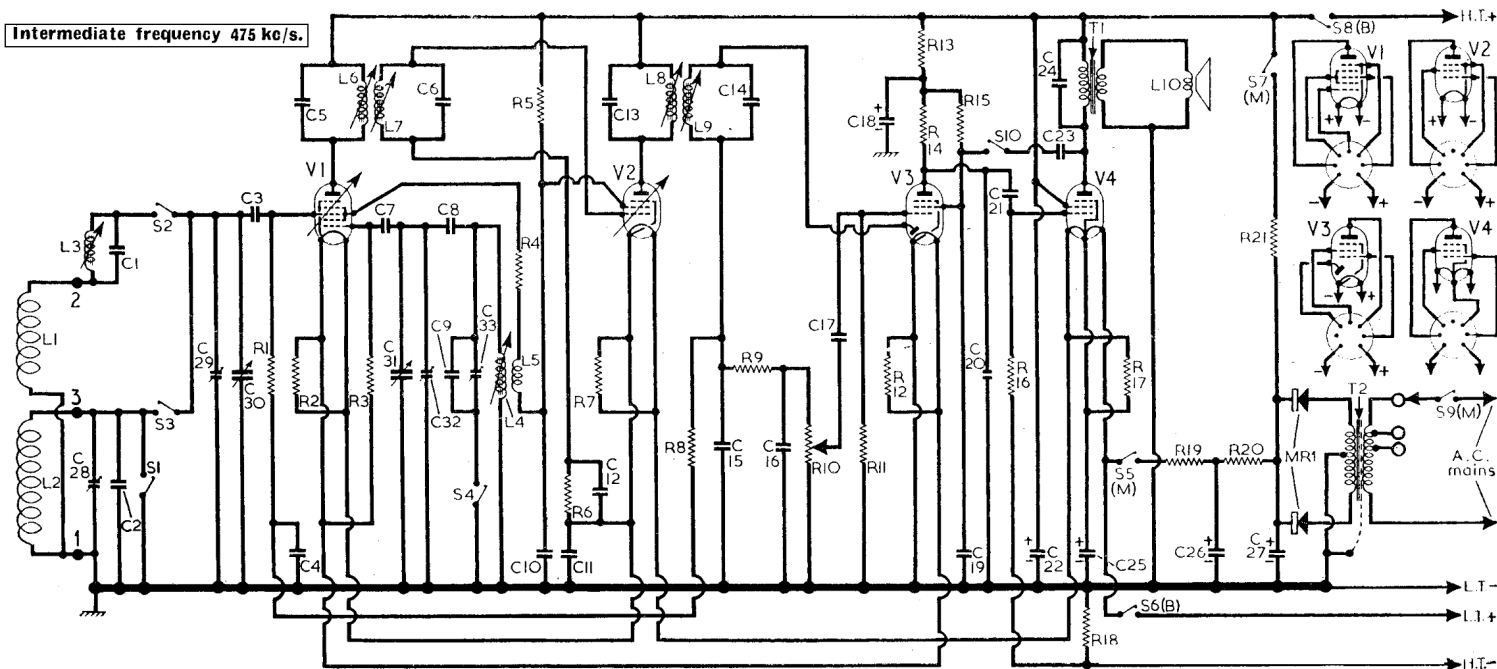
OTHER COMPONENTS		Approx. Values (ohms)	Locations
L1	M.W. frame aerial	2.0	—
L2	L.W. frame aerial	15.0	—
L3	M.W. loading coil	1.6	F4
L4	Osc. tuning coil ...	1.2	B1
L5	Osc. reaction coil ...	1.0	B1
L6	1st I.F. trans. { Pri. ...	20.0	B2
L7	trans. { Sec. ...	20.0	B2
L8	2nd I.F. trans. { Pri. ...	20.0	C1
L9	trans. { Sec. ...	20.0	C1
L10	Speech coil ...	2.9	—
T1	O.P. trans. { Pri. ...	470.0	D2
T2	Mains { Pri., total	0.5	—
	trans. { Sec., total	220.0	E4
		240.0	—
S1-S4	Waveband and	—	G4
S5-S9	power switches	—	—
S10	Alarm switch	—	—
MR1	Metal rectifier RM2	—	A2

CAPACITORS		Values	Locations
C1	M.W. aerial trim.	100pF	F4
C2	L.W. aerial trim. ...	190pF	F3
C3	V1 C.G. ...	0.001μF	B2
C4	A.G.C. decoupling	0.05μF	F3
C5	1st I.F. trans. ...	100pF	B2
C6	tuning ...	100pF	B2
C7	V1 osc. C.G. ...	100pF	F4
C8	Osc. tracker ...	532pF	F4
C9	L.W. osc. trim. ...	400pF	B1
C10	H.T. decoupling	0.1μF	H3
C11	Filament by-pass	0.1μF	G3
C12	V2 C.G. decoupling ...	0.01μF	G3
C13	2nd I.F. trans. ...	100pF	C1
C14	tuning ...	100pF	C1
C15	I.F. by-passes ...	100pF	F3
C16		100pF	F3
C17	A.F. coupling	500pF	G4
C18*	H.T. decoupling	2μF	D2
C19	S.G. decoupling	0.05μF	H3
C20	I.F. by-pass	65pF	G3
C21	A.F. coupling	500pF	G3
C22*	H.T. reservoir	32μF	A1
C23	Alarm coupling	0.005μF	D2
C24	Tone corrector	0.01μF	C2
C25*	Filament by-pass	100μF	D2
C26*	Filament smoothing	25μF	A1
C27*	H.T. smoothing	32μF	A1
C28†	L.W. aerial trim.	40pF	F3
C29†	M.W. aerial trim.	40pF	F3
C30†	Aerial tuning	5525pF	F3
C31†	Oscillator tuning	5525pF	F4
C32†	M.W. osc. trim.	40pF	F3
C33†	L.W. osc. trim.	80pF	B2

* Electrolytic. † Variable. ‡ Pre-set.
§ "Swing" value, min. to max.



RESISTORS		Values	Locations
R1	V1 C.G. ...	4.7MΩ	F3
R2	Filament shunt ...	120Ω	F3
R3	V1 osc. C.G. ...	100kΩ	F3
R4	Osc. stabilizer	2.2kΩ	B1
R5	H.T. decoupling	8.2kΩ	G3
R6	V2 C.G. ...	4.7MΩ	G3
R7	Filament shunt ...	150Ω	G3
R8	A.G.C. decoupling	2.2MΩ	F3
R9	I.F. stopper	47kΩ	G3
R10	Volume control	2MΩ	G4
R11	V3 C.G. ...	4.7MΩ	G3
R12	Filament shunt ...	100Ω	G4
R13	H.T. decoupling	56kΩ	H3
R14	V3 anode load	1MΩ	G3
R15	V3 S.G. feed	4.7MΩ	H3
R16	V4 C.G. ...	2.2MΩ	G3
R17	Filament shunt	330Ω	G3
R18	V4 G.B. ...	100Ω	G4
R19	Filament ballast ...	680Ω	A1
R20		1.5kΩ	A1
R21	H.T. smoothing	1.8kΩ	A1



Sketch showing tuning drive system as seen from front with tuning scale removed.

Tuning Drive Cord Replacement.—About 6 feet of high-grade fishing line is required for a new drive cord, which should be run as shown in the accompanying sketch, where the gang is at maximum capacitance. The scale plate must be removed (four 6BA nuts, bolts and lock-washers). The cursor can be fitted afterwards and adjusted as explained under "Circuit Alignment."

CIRCUIT ALIGNMENT

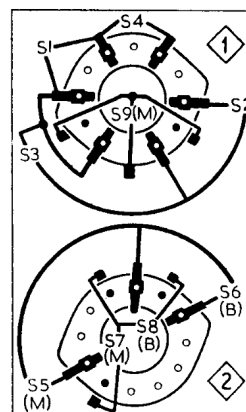
To gain access to the core and trimmer adjustments, the chassis should be removed from its carrying case. Before aligning the I.F. stages, the cores should be freed by carefully melting the wax with which they are sealed.

I.F. Stages.—Switch receiver to M.W., and turn gang to minimum capacitance. Connect signal generator output across C30 (location reference F3), feed in a 475 kc/s (631.6 m) signal and adjust the cores of L9, L8, L7 and L6 (C1, G3, B2) in that order for maximum output, reducing the input as the circuits come into line to avoid A.G.C. action. Reseal the cores with soft wax.

R.F. and Oscillator Stages.—Check that with the gang at maximum capacitance, the cursor is horizontal and coincides with the calibration point above the 550 m mark on the M.W. tuning scale. Transfer signal generator leads to frame aerials, placing them in close proximity to the windings in the lid of the carrying case.

M.W.—Switch receiver to M.W., tune to 500 m, feed in a 500 m (600 kc/s) signal and adjust the cores of L4 (B2) and L3 (F4) for maximum output. Tune receiver to 200 m, feed in a 200 m (1,500 kc/s) signal and adjust C32 (F3) and C29 (F3) for maximum output. Repeat these adjustments until no further improvement results.

L.W.—Switch receiver to L.W., tune to 1,200 m, feed in a 1,200 m (250 kc/s) signal and adjust C33 (B2) and C28 (F3) for maximum output. Repeat these adjustments.



Waveband switch diagrams

Switch	Battery			A.C. Mains		
	L.W.	M.W.	Off	L.W.	M.W.	Off
S1	—	○	—	—	○	—
S2	—	○	—	—	○	—
S3	—	○	—	—	○	—
S4	—	○	—	—	○	—
S5(M)	—	○	—	—	○	—
S6(B)	—	○	—	—	○	—
S7(M)	—	○	—	—	○	—
S8(B)	—	○	—	—	○	—
S9(M)	—	○	—	—	○	—