EVERYTHING 4 LESS

ENJOY YOUR BOOKS

PLEASE VISIT OUR STORE FOR EVEN MORE GREAT STUFF!

WWW.EVERYTHING4LESSSTORE.COM

COPYRIGHT NOTICE

ALL MATERIALS INCLUDING CD/DVD AND PDF FILES ARE COPYRIGHTED

WWW.EVERYTHING4LESSSTORE.COM VON WALTHOUR PRODUCTIONS AND MAY NOT BE REPRODUCED, COPIED OR RESOLD UNDER ANY CIRCUMSTANCES. YOU MAY HOWEVER MAKE A COPY FOR YOUR OWN PERSONAL BACKUP. MATERIALS ARE FOR PERSONAL USE ONLY.

IF YOU PURCHASED THIS FROM ANYWHERE BUT FROM US PLEASE NOTIFY US IMMEDIATELY SO THAT WE MAY CHECK IF YOU PURCHASED FROM AN AUTHORIZED RESELLER SO WE CAN LET YOU KNOW IF YOU NEED TO RETURN FOR FULL REFUND FROM AN UNAUTHORIZED SELLER.

THANKS AGAIN AND PLEASE TAKE THE TIME TO VISIT OUR STORE.

ATTENTION! EVERYTHING ON SALE NOW!!







- A. Coarse and Fine Tuning Control.
- B. Band-change Switch.
- C. Operational Switch. (PHONE-OFF-C.W.-Calibrate.)
- D. Pass-band Switch.

- E. H.F. Gain Control.
- F. L.F. Gain Control.
- G. A.G.C. Switch.
- H. Power Switch.

MARCONI RECEIVER TYPES CR. 300/1 and CR. 300/2 and SUPPLY UNIT TYPE 889.

SECTION 3.

TECHNICAL DESCRIPTION.

(a) GENERAL.

The valve complement of the receiver is as under: Type. Number. ARTH2 (for CR, 300/1 Signal Frequency Amplifier. 1 or . KTW61 (for CR. 300/2) Frequency Changer. 1 X66 or 6K8.. .. Intermediate Frequency Amplifiers. KTW6l 2 Second Detector, A.G.C. Rectifier and L.F. Amplifier. 1 DH63 Beat Frequency Oscillator. KTW61 6V6G . . Calibration Oscillator. 1 KTW51 Type 889 Supply Unit: -

Frequency Band.

The overall frequency range of 15 kc/s to 25 Mc/s is covered by eight positions of the frequency band switch as follows:—

Position. Frequency Band. Position. Frequency Band. 1 15 kc/s — 85 kc/s. 5 1 Mc/s — 2.6 Mc/s.	Switch	•	Switch	
1 15 kc/s = 85 kc/s. 5 1 Mc/s = 2.6 Mc/s.		· Frequency Band.	Position.	
	1	· · · · · · · · · · · · · · · · · · ·	5	1 Mc/s — 2.6 Mc/s.
	2	85 , — 210 ,	6	2.6 , -6.8 , $=$
$\frac{3}{3}$ 210 " = $\frac{550}{1}$ " 7 6.8 " = 17 "	3	210 550	7	6.8 , -17 ,
4 375 ", = 1,000 ", 8 15 ", = 25 ",	4	• ,,	8	15 , -25 ,

Two values of I.F. are used, viz.: (a) 98 kc/s—on bands 1 and 4. (b) 570 kc/s—on bands 2, 3, 5, 6, 7 and 8.

Calibration and Tuning.

In addition to selecting the required coils, the band switch rotates a calibration roller, bringing into view the full frequency scale of the band in use, as for the other receivers in the CR. series. The main tuning control moves a pointer across the frequency scale and also rotates the logging scale discs. This logging scale has an equivalent length of 18 feet and its 1,250 divisions can be read to one-quarter division. At 20 Mc/s one scale division is equal to a 13 kc/s change of frequency.

Selectivity Range.

The four-position pass-band switch is indexed on the front of panel with initial letters corres-

ponding to "wide," "medium," "narrow" and "filter" positions.

The first three conditions are effected by control of the intermediate frequency characteristics, e.g., coupling and feed back. The filter position introduces, after the narrowest I.F. pass-band, low frequency circuits tuned to approximately 1,000 c.p.s. and baving a pass-band of 100 c.p.s.

The nominal pass-bands available with the 98 kc/s I.F., i.e., bands 1 and 4, are as follows

Wide 2,200 c.p.s., i.e., frequencies \pm 1,100 c.p.s. in relation to the carrier. Medium 1,800 ,, , , \pm 900 ,, in relation to the carrier. Narrow 1,500 ,, , , , , \pm 750 ,, in relation to the carrier.

The corresponding pass-bands available on 570 kc/s I.F., i.e., ranges 2, 3, 5, 6, 7 and 8, are as follows:

Wide 5,000 c.p.s., i.e., frequencies \pm 2,500 c.p.s. in relation to the carrier. Medium 4,000 ,, ,, ,, \pm 2,000 ,, in relation to the carrier. Narrow 2,000 ,, ,, ,, \pm 1,000 ,, in relation to the carrier.

Actiel Input.

The input is arranged for working with a single wire aerial connected via a 75 to 100 chan unbalanced feeder, the total capacity of aerial and feeder should not exceed 700µµF. The concentric input plug will fit screened cables such as the Uni-radio Types Nos. 1, 6, 18, 19 and 31.

Outputs.

In addition to the self-contained loudspeaker and headphone points the receiver is provided with connections on the seven-way socket for extension outputs. The full output facilities are therefore
(1) Two local headphone points, suitable for 60 ohm (nominal) headphones, level 10 mW.

- (2) The local loudspeaker, 3.5 ohms special coil, switched off by insertion of the local headphones. Maximum level approximately 2 Watts.
- (3) An extension loudspeaker, 3.5 ohms coil, unaffected by insertion of the local headphones
- (4) An extension output similar to that for the local headphones, i.e., 10 mW maximum into 60 ohm headphones. This is unaffected by insertion of the local headphones. Since the working impedance of 60 ohm headphones is approximately 600 ohm, this extension output may be used for a 600 ohm line.
- (3) and (4) are available on special request.

Controls.

The receiver controls are:

Main tuning condenser (fast and slow drivé).

Tuning band switch.

Pass-band selection.

Operational switch (selecting Telephone or CW reception and controlling the calibrating

A.G.C. on-off switch.

H.F. Gain.

L.F. Gain.

On-off switch.

Thère is also incorporated a preset control, mounted behind the front panel but accessible through the latter, for controlling a desensitising voltage when-working in conjunction with a local transmitter.

Supplies.

The receiver unit seven-way socket may be supplied directly with 0.95 amps at 24 volts and 60 mA. at 250 volts D.C.

When the receiver is fed from the Type 889 Supply Unit, the latter is adaptable to operate as under.

```
From 24 V. D.C. . .
                                      Consumption 54 Watts.
  " 110 V. D.C. , .
                                      Consumption 60
                                      Consumption 60
    220 V. D.C. . .
    230 V. A.C.
                                      Consumption 60
```

Output from Supply Unit.

H.T. = 250 volts at 60 m/A.

L.T. — 24 volts at 1 amp. A.C.

When run from 24 volts D.C. supply the L.T. output will be 24 volts D.C.

A full description of the supply unit is given on page 8.

(b) DETAILED CIRCUIT DESCRIPTION.

In summary the circuit is basically a straightforward superheterodyne using one signal-frequency amplifier valve, a frequency changer, two intermediate-frequency amplifier valves, a combined 2nd detector and first low-frequency amplifier, and, finally, an output stage. Additionally there is a separate Beat Note oscillator valve, while an eighth valve functions as a crystal-controlled calibrating oscillator.

Section 4.

PERFORMANCE.

I. Sensitivity.

In the table below sensitivity is expressed in Column 4 as the unmodulated in put signal required to give a signal-to-noise ratio of 20 db.

For this test the receiver pass-band switch should be set at "N," except on Band 1 when the "F" position should be used.

2. Image Protection.

The amount by which the image signal is attenuated as shown in Column 5

Band.	Frequency.	Đưmmy Aerial.	Sensitivity.	Image Protection.
1	18 kc/s	200μμF	70μ V	60 db
	80 ,,	200 ,,	35 "	60 ,,
2	85 ,,	200 ,,	7	80 ,,
	200 ,,	200 ,,	5 ,,	70 ,,
3	210 ,,	200 ,,	5 ,,	75 ,,
	520 ,,	200 ,,	3 ,,	55 ,,
4	400	200 ,,	5 ,,	65 ,,
	1.0 Mc/s	200 ,,	2 ,,	45 ,,
5	1.0 ,,	200 ,,	3 ,,	80 .,
	2.5 ,,	200 ,,	2 ,,	50 ,,
6	2.7	100 ohms	3 ",	66 "
	6.7 ,,	100 "	2 ",	40 "
7	6.8 ,,	100 ,,	4 ,,	55 "
	16.5 ,,	100 ,,	3 ,,	30 "
8	14.5 ,,	100 ,,	5 ,,	35 ,,
	25.0 ,,	100 ,,	3 ,,	25 ,,

3. I.F. Selectivity (Adjacent Channel Protection).

Pass-band Switch.			tenuation as under
I,F.—570 kc/s.	Wide Medium Narrow	-6 db. 5.0 kc/s 4.0 ,, 2.0 ,,	—40 <i>db</i> . 16 kc/s.
I.F.— 98 kc/s.	Wide Medium Narrow	2.2 ,, 1.8 ,, 1.5 ,,	8.0 kc/s.

4. L.F. Response.

With the pass-band switch set to "F" the two-stage note filter (thus introduced) passes a band of frequencies of approximately 100—150 c.p.s. for an attenuation of 6 db. Frequencies more then 200 c.p.s. from mid-band frequency are attenuated by at least 20 db.

With the filter switched out to the L.F. response varies according to the setting of the pass-band

switch as shown on page 23, Fig. 1.

COMPONENT LIST FOR RECEIVER.

TYPES CR. 300/1 AND CR. 300/2.

Note. It is essential, when ordering spares for this Receiver, to quote the Type_reference shown on the Receiver (Type CR. 300/1 or 2), Serial No. of Unit, the reference number of the component (e.g., C3), and the drawing number of the component, thus:—

Type CR. 300/1, MC....., C3, W.IS. 2708, Sh. 1, Ref. 2.

The component part references in column 1 will be found on Drg. WE/W. 6890, Sh. 1, page 33.

Ref.	Section of Diagram		Nominal Value.	Drawing No.	Adm. Ref.
SUB-ASS	EMBLIES	S.			
Aenal Assembly	A	Includes Components Ma	rked (AA).	W.6887 Sh. 1, Ed. A.	M661
H.F. Assembly	В	Includes Components Ma	rked (HA).	W.6888 Sh. 1, Ed. A.	M662
Oscillator Assembly	C	Includes Components Ma	rked (OA).	W.6889 Sh. 1, Ed. A.	M663
Oscillator Calibrator	F	{ 500 kc/s. (CR. 300/1) \ In 690 kc/s. (CR. 300/2) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	cludes Components Marked (OC).	W.6894/C Sh. 1, Ed. B.	M670
I.F.1	C	Coil Unit. Includes 1.25		W.6972/C Sh. 1, Ed. A.	M664
I.F.2	Ď		and 28, C62 and 63	W.6972/C Sh. 1, Ed. B.	M665
LF.3	D		and 30, C65 and 66	W.6972/C Sh. 1, Ed. C.	M666
I.F.4	E	Coil Unit. " L31 :	and 32, C77 and 78	W.6972/C Sh. 1, Ed. D.	M667
I.F.5	Е		and 34, C79 and 80	W.6972/C Sh. 1, Ed. E.	M668
I.F.6	E		and 36, C81 and 82	W.6972/C Sh. 1, Ed. F.	M669

The components used in the above snb-assemblies are specified in the following lists, but when any of these specified components are required, the complete sub-assembly in which they are used must be ordered.

CONDENSERS.

C1	A	Condenser.	0.01µF.	WIS.1565 Sh 2.	M708
C2	A	Condenser.	$0.007 \mu F.$	As Cl.	M707
C3	A	Condenser, Triple with	0.1μF.	WIS.2708 Sh. f, Ref. 2.	M710
		C20 and C106.	•	•	
C4	A	Condenser (AA).	500 μμ F .		
C5	A	Condenser (AA).	500μμF.		
C6	A	Condenser (AA).	50բբF.		
·C7	Ā	Condenser (AA).	500μμ) F.		
C8	Æ	Condenser (AA).	300μμΕ.		
C9	A	Condenser, Trimmer (AA).	3—ĴÓμμF.		
C10	A	Condenser, Trimmer (AA).	As C9.		
Č1i	A	Condenser, Trimmer (AA).	As C9.		
C12	A	Condenser, Trimmer (AA).	As C9.		
C13	Ä	Condenser, Trimmer (AA).	As C9.		
C14	Ā	Condenser, Trimmer (AA).	As C9.		
C15	Ä	Condenser, Trimmer (AA).	As C9.		
Č16	Ä	Condenser (AA).	10µµ.F.		
C17	A	Condenser, Tuning.	437μμF Sweep with	W.7218 Sh. 1, Ed. A.	M660
			C36 and C60.	-,	
C18	A	Condenser (AA),	0.01րF.		
C19	Ā	Condenser.	0.0 laF.	WIS.1609.	
Č20	Ä	Condenser, Triple with	0.1μF.	As C3.	M710
~~	· ·	C3 and Clink	O. I Par.	rw 03.	342 60
		- -			

Ref.	Section of Diagram		Nominal Value.	Drawing No.	Adm. Ref.
C21	В	Condenser (HA).	0.01μF.		
C22	В	Condenser, Triple with C37 and C38	0.1μF.	W1S.2708 Sh. 1, Ref. 2.	M710
C23	В	Condenser (HA).	30μμF.		
C24	В	Condenser (HA).	300μμϜ.		
C25	В	Condenser (HA)	As C24.		
C26	В	Condenser (HA).	700μμ F .		
C27	В	Condenser (HA).	500μμF. 5Ε		
C28 C29	B B	Condenser (HA). Condenser, Trimmer (HA).	5μμF, 3—30μμF.		
C30	В	Condenser, Trimmer (HA).	As C29.		
C31	B	Condenser, Trimmer (HA).	As C29.		
C32	B	Condenser, Trimmer (HA).	As C29.		
C33	В	Condenser, Trimmer (HA).	As C29.		
C34	В	Condenser, Trimmer (HA).	As C29.		
C35	В	Condenser, Trimmer (HA).	As C29.	111 73 (A CL 4 E.) A	34660
C36	В	Condenser, Tuning.	437μμF Sweep with C17 and C60.	W.7218 Sh J, Ed. A.	M660
C37	В	Condenser, Triple with C22 and C38.	As C22.	As C22.	M710
C38	C	Condenser, T _{riple} with C22 and C37.	As C22.	As C22.	M710
C39	Ç	Condenser for I.F.1.	500μμΕ		
C40	000000000000000000	Condenser for 1,F.1.	150μμ.Ε.	11/10 2040 CL 4 D - 6 1	
C41 C42	ř	Condenser, Trimmer, Condenser (DA).	330μF, 300μμF.	WIS.2848 Sh. 1, Ref. 1.	
C43	č	Condenser (DA).	100μμΓ.	W1S.1784.	
Ç44	č	Condenser (OA),	180μμΕ.	1113.1704.	
Č45	Č	Condenser (DA).	71µµF.		
C46	C	Condenser (OA).	160.5μμ₹.		
C47	Č	Condenser (OA).	1,370 դ դԲ.		
C48	ç	Condenser (QA).	690μμF.		
C49	č	Condenser (OA),	1,650μμF.		
C50 C51	č	Condenser (OA). Condenser, Trimmer (OA).	2,570μμF. As C29.		
C52	č	Condenser, Trimmer (OA).	As C29.		
C53	č	Condenser, Trimmer (OA).	As C29.		
C54	Č	Condenser, Trimmer (OA).	As C29.		
C55	Č	Condenser, Trimmer (OA).	As C29		
C56	C	Condenser, Trimmer (OA).	As C29.		
C57	C C	Condenser, Trimmer (OA).	As C29.		
C58	င္	Condenser, Trimmer (OA).	As C29.	11/0 20/0 OF 1 D-6 2	
C59 C60	C C	Condenser, Trimmer. Condenser, Tuning.	2—8μμF. 437μμF Sweep with C17 and C36.	WIS.2848 Sh. I, Ref. 2. As C36.	M669
C61	C	Condenser (OA),	0.01μF.		
C62	ă	Condenser for I.F.2.	500µµF,		
C63	D	Condenser for I.F.2,	150μμ.Ε.		
C64	D -	Condenser, Triple with C70 and C97.	As C22,	As C22,	M710
C65	Ď	Condenset for 1, F.3,	500μμΕ.		
C66 C67	Ď	Condenser for I.F.3	150μμ F .	55/10 3443	14700
C68	D D	Condenser. Condenser, Triple with	100μμF, As C22,	WIS.2442, As C22,	M709 M710
C69	D	C69 and C107. Condenser, Triple with	As C22.	As C22.	M710
C70	D	C68 and C107. Condenser, Triple with	As C22.	As C22.	M710
C71	D	C64 and C97. Condenser, Triple with	0,1μF,	W1S,2708 Sh. 1, Ref. 2.	M710
C72	D	C72 and C76. Condenser, Triple with	As C71,	As C71,	M710
C14	D	C71 and C76.	A3 C/1,	A3 C/1.	MUIV

Ref.	Section of Diagram.		Nominal Value.	Drawing No.	Adm. Ref.
 C73	E	Candones	5μμ F .	WIS.1784.	
C74	Ē	Condenser, Triple with C96 and C105.	эррг. As C71.	As C71.	M710
C75	E	Condenser, Triple with C83 end C85.	As C71.	As C71.	M710
C76	E	Condenser, Triple with C71 and C72.	As C71.	As C71.	M710
C77	E	Condenser for 1.F.4.	500μμF.		
C78	E	Condenser for [F.4.	I 50μμ P .		
C79	E E	Condenser for J.F.5.	500µµF.		
C80	E	Condenser for I.F.5.	[50μμF.		
C81	E E	Condenser for I.F.6.	500µµF.		
C82 C83	F F	Condenser for I.F.6. Condenser, Triple with	150µµF. As C71.	As C71.	M710
C84	£	C75 and C85. Condenser.	100μμΕ,	WIS.2442.	M709
C85	E	Condenser, Triple with C75 and C83.	As C71.	As C71,	M710
C86	E	Condenser.	0.01μF.	WIS.1565 Sh. 2.	M708
C87	Ē	Condenser.	500ըսF.	As C84.	
C88	E	Condenser.	As Ĉ84.	As C84.	M709
C89	E	Condenser.	As C84.	As C84.	M709
C91	E	Condenser,	0.01μF.	As C86.	M708
C92 C93	E E	Condenser for L.F.1. Condenser, Trimmer, for	3,100րդF. 1,450—2,000րդF.	WIS.1565 Sh. 1, Ref. 22. WIS.1588 Ref. 7.	
~~	•	L.F.1.	A = C02	As C93.	
C94	E	Condenser for L.F.1.	As C93. As C92.	As C93. As C92.	
C95 C96	E	Condenser for L.F.1.	As C71.	As C71.	M710
C97	E	Condenser, Triple with C74 end C105. Condenser, Triple with	As C71.	AS C71.	M710
		C64 and C70.	0.005μF,	As Cit.	1,1,10
C98 C99	F F	Condenser (OC).	0.005μr, 500μμF.		
C100	r s	Condenser (OC). Condenser.	500μμF.	As C84.	
ČIČI	É A	Condenser (AA)	50μμ F	.15 001.	
C102	Ê	Condenser.	0.005μF.	WIS.2970 Sh. 1, Ref. 15.	M706
C103	F F F	Condenser, Electrolytic	25μF.	WIS.3178/C Sh. 1, Ref. 3.	M711
Či04	É	Condenser.	[μ F .	WIS.2838 Sh 1, Ref. 4.	M712
Cj05	F	Condenser, Triple with C74 and C96.	As Ç71.	As C71.	M710
C106	F	Condenser, Triple with C3 and C20.	As C71.	As C71.	M710
C107	F	Condenser, Triple with C68 and C69.	As C71.	As C71.	M710
Ć110	A	Condenser (AA).	2μ μ F.		
C111	A	Condenser (AA).	2μμF.		
CI12	A	Condenser (AA).	30μμ F .		
C113	В	Condenser (HA).	20μμ F .	*** 4902/C 01 1 E4 4	
C114	C	Condenser, Temp. Compensator		W.6893/C Sh. 1, Ed. A.	
C115 C116	c	Condenser (OA) Condenser (OA).	30µµF. 30µµF.		
C119	F	Condenser.	0.01 μF.	WIS.1609.	
C120	F	Condenser.	0.01μF.	As C119.	
JACKS.					
)(F	Jack, 8 point.		WIS.3150/C Sh. I, Ref. I.	M693
j 2	F	Jack, 8 point		As JI.	M693
	•	pomi			

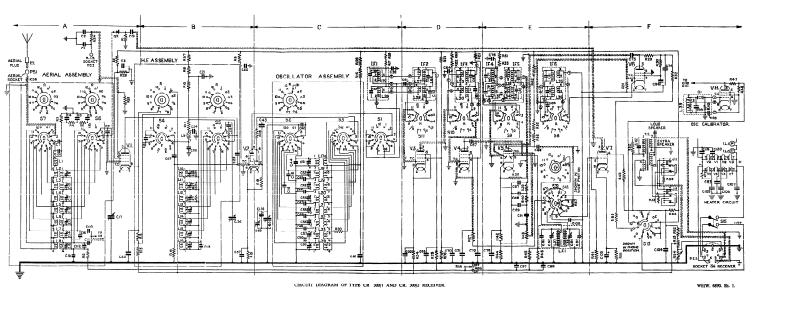
Ref.	Section o Diagram		Nominal Value.	Drawing No.	Adm. Ref.
INDUCTA	NCES.				
L1—L8 L9—L16 L17—L24 L25—L26 L27—L28 L29—L30	А В С С В	H.F. Coils (AA). H.F. Coils (HA), H.F. Coils (QA). I.F. Coils for I.F.1. I.F. Coils for I.F.2, I.F. Coils for I.F.3.	98 kc/s. and 570 kc/s. 98 kc/s. and 570 kc/s. 98 kc/s. and 570 kc/s.		
L3[L32 L33L34 L35L36 L37L38	в еее.	I.F. Coils for I.F.4. I.F. Coils for I.F.5. I.F. Coils for I.F.6. Iron Core Inductances for I.F.1.	98 ke/s. and 570 ke/s. 98 ke/s. and 570 ke/s. 98 ke/s. and 570 ke/s.		
L39B L39A	F F	Inductance for Osc. Cal.(0	OC) 500 kc/s, (CR. 300/1) OC) 690 kc/s, (CR. 300/2)		
LF1	E	L.F. Filter Unit.		W.8133 Sh. I, Ed. A.	M671
LAMPS.			•		
IL! IL2	F F	Lamp, M.E.S. Lamp, M.E.S.	0.2 amps 12 volt. 0.2 amps 12 volt.	WIS.3181/C Sh. t, Ref. 5, As IL1.	M477 M477
LS	F	Loudspeaker 5 in. P.M.		WIS 3077 Sh. 1, Ref. 1.	M783
PLUGS A	ND SOC	KETS.			
Pi	A	Plug, Aerial.		A.M. Type 161, Ref. 10H/184.	M700
PS1	A	Socket, Aerial.		A.M. Type 56, Ref. 10/H10330.	M747
PS2 PS3	F A	Socket, 7 pin, Yellow. Plug, R.I.S.		WSK,836, Sh. 1, Ed. L. A.M. Type 229, Ref. 10H/528,	M788 M686
CRYSTAL	s.			Rot. 1011/328,	
Ql	F	Crystal (OC),	\$500 kc/s, (CR. 300/1) 690 kc/s, (CR. 300/2)		
Q2	A	Crystal in Cup.	(/ / (/ / / /	N/CP,4790.	
RESISTAN	ICES.				
R1 R2 R3	A A A	Resistance. Resistance. Resistance (AA).	1.0M Ω 47,000 Ω, 220,000 Ω.	WIS.2630 Sh. 1, Ref. 8. WIS.2630 Sh. 1, Ref. 7. As R1.	M723
R4 R5 R6	A A A	Resistance (AA). Resistance (AA). Resistance (AA).	4,700 Ω. 4,700 Ω. 220,000 Ω.	As R1, As R1, As R[,	M719 M719
R7 R8 R9	B B B	Resistance (HA). Resistance (HA) Resistance.	68,000 Ω, 22,000 Ω. 47,000 Ω.	As R1. WIS-2630 Sh. I, Ref. 3. As R2.	M726 M722
R10 R11 R12 R13	B B B B	Resistance (HA), Resistance (HA). Resistance (HA), Resistance (HA).	22,000 Ω, 4,700 Ω, 680 Ω. 390 Ω,	As R2. As R1. As R1.	M719
R14 R15 R16	В	Resistance (HA). Resistance. Resistance.	1,0M Ω 390 Ω. 47,000 Ω.	As R1. As R1. As R1. As R1.	
R17 R18 R19	# C C C C C D D	Resistance, Resistance, Resistance,	2,200 Ω. 47 Ω. 220,000 Ω.	WIS.2630 Sh. 1, Ref. 8. As R17 As R17.	
R20 R21 R22	C D	Resistance (OA), Resistance, Resistance,	47 Ω. 47,000 Ω. 2,200 Ω.	WIS.2630 Sh. 1, Ref. 3,	M724
R23 R24 R25	D D D	Resistance, Resistance. Resistance.	68,000 Ω, 680 Ω, 470,000 Ω.	As R17. WIS.2630 Sh. 1, Ref. 7. As R17. As R17.	M725

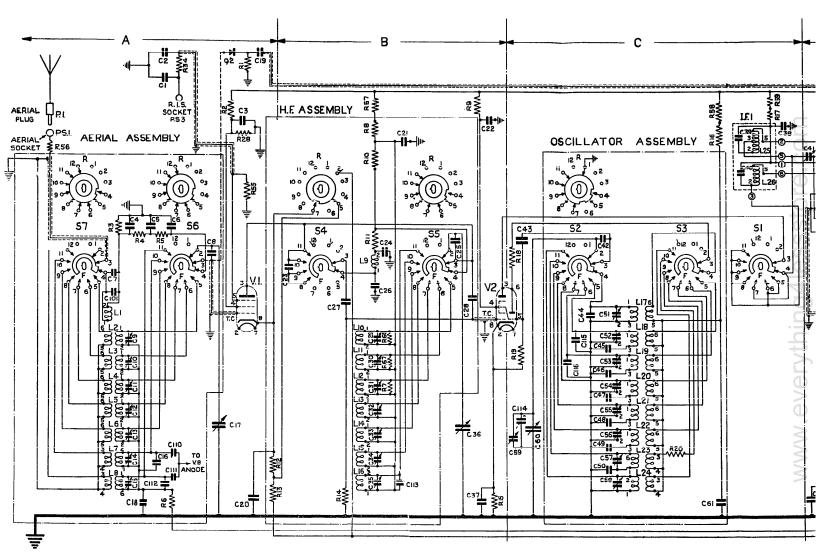
Ref.	Section of Diagram,		Nominal Value.	Drawing No.	Adm, Ref,
R26	D	Resistance.	47,000 Ω,	As R23,	M723
R27	Ď	Resistance.	390 Ω,	As R17.	146720
R28	Ã	Resistance.	33,000 Ω.	As R23,	
R29	${f E}$	Resistance.	47, 000 Ω,	As R17.	
R30	E	Resistance,	220,000 Ω.	As R23,	M728
R31	E	Resistance:	470,000 Ω.	As R17.	
R32	E E	Resistance.	220,000 Ω,	As R17.	
R33 R34	E	Resistance,	2,200 Ω.	As R17,	
R35	A E	Resistance.	10,000 Ω, 10,000 Ω,	As Ŕ17.	
R36	Ē	Resistance.	47,000 Ω.	As R17. As R17.	
R37	Ē	Resistance.	470,000 Ω.	As R17.	
R38	eeeefeee	Resistance.	470,000 Ω.	As R17.	
R39	E	Resistance.	$10,000\Omega$.	As R17.	
R40	\mathbf{E}	Resistance.	10,000 Ω,	As R17.	
R41	F	Resistance,	1M Ω,	As R17.	
R42	Ē	Resistance.	680 Ω.	As R1.7.	
R43	Ë	Potentiometer.	500,000 Ω.	WIS,2239 Sh. 2, Ref. 10.	M703
R44 R45	E	Resistance,	2,200 Ω.	As R17.	
R46	E E F	Resistance. Resistance,	470,000 Ω. 1.0M Ω.	As R17. As R17.	
R47	F	Resistance.	47,000 Ω,	As R17.	
R48	F	Resistance.	47,000 Ω.	As R17.	
R49	F	Resistance.	4,700 Ω.	As R17.	M719
R50	F	Resistance.	$220,000 \Omega$	As R17.	2.00
R51	F	Resistance,	1,000 Ω,	As R23.	M717
R52	F	Resistance.	47,000 Ω.	As R21.	M724
R53	<u>F</u>	Potentiometer.	10,000 Ω.	WIS.2239 Sh. 2, Ref. 11.	M701
R54	F	Potentiometer.	25,000 Ω.	WIS.2239 Sh. 2, Ref. 12.	м702
R55	A	Resistance.	68,000 Ω.	As R17.	
R56 R57	A	Resistance.	47 [′] Ω,	As R21.	34715
R58	B C	Resistance, Resistance.	470 Ω. 470 Ω.	As R17. As R17.	M715 M715
R59	č	Resistance.	470 Ω.	As R17.	M715
R60	C D	Resistance.	470 Ω.	As R17.	M713
R61	E	Resistance,	470 Ω.	As R17.	M715
R62	E E F	Resistance.	470 Ω.	As R17.	M715
R63	\mathbf{F}	Resistance.	470 Ω.	As R17.	M715
R64	F F	Resistance.	470 Ω.	As RJ7.	M715
R65	F	Resistance (OC),	150,000 Ω.		
R66 R67	B B	Resistance (HA), Resistance (HA),	100,000 Ω. 68,000 Ω.		
R68	F	Resistance.	4,700 Ω.	WIS.2630 Sh. 1, Ref. 2,	M720
R70	F E E	Resistance.	680 Ω.	As R17.	141720
R71	Ē	Resistance.	680 Ω.	As R17.	
R72	\mathbf{F}	Resistance.	120 Ω.	WIS, 2604 Sh. 1, Ref. 3.	M713
R73	F	Resistance	10,000 Ω	As R23.	
SWITCH					
St	C	Switch, H.F., Click Plate— 1st Section.		WSK,1197/C Sh, 266,	M680
S2	C	Switch, H.F. (OA).			
S3	Č	Switch, H.F. (QA).			
S4	В	Switch, H.F. (HA).			
S5	В	Switch, H.F. (HA).			
S6	A	Switch, H.F. (AA).			
S7	A	Switch, H.F. (AA).		WIG 1:00/C St 345	14470
S8 S9	E E	Switch, I.F. Switch, I.F.		WIS.1197/C Sh. 265. As S8.	M679 M679
S10	Ď	Switch, I.F.		As S8.	M679
SII	р	Switch, I.F.		As S8.	M679
S12	Ē	Passband and L.F. Filter		WIS.1197/C Sh. 270.	M682
	_	Switch.			

Ref	Section of Diagram	Description.	Nominal Value.	Drawing No.	Adm Ref.
\$13 \$14 \$15	F D F	Operational Switch. A.G.C. Switch Mains Switch.		WIS.1197/C Sh. 271. WIS.3217/C Sh. 1, Ref. 1. As S14.	M681 M683 M683
TRANSE	FORMER.				h = 470
T2	F	Output Transformer		WKS.2528 Sh. 1.	M672
VALVES V ₁	Α	Valve, Type ARTH 2.			CV (347
V2	8 & C	Valve, Type 6K8 or X66.			CV1193 - CV1281 -
V3 V4	D D	Valve, Type KTW.61. Valve, Type KTW.61.			CV (28)
V 5	Ē	Valve, Type DH 63.			CV587
V6	E	Valve, Type KTW.61.			CV1281 CV509
V7 V8	D E E F	Valve, Type 6V6G. Valve, Type KTW.61			CV1281
***	•	·			

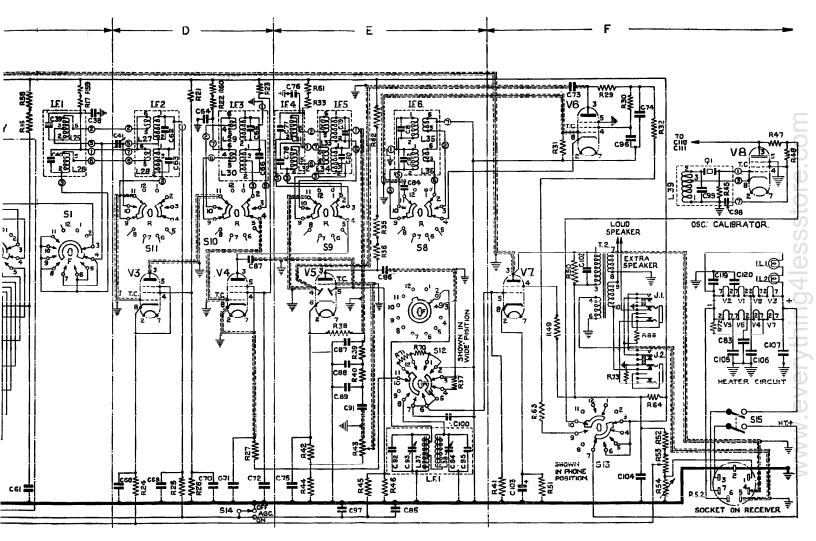
WZ. 1818. Sh. 1 (issue 2).

SIMPLIFIED CIRCUIT DIAGRAM OF TYPE CR. 300/1 AND CR. 300/2 RECEIVER.





CIRCUIT DIAGRAM OF TYPE CR 300/1 AND CR.



TYPE CR 300/1 AND CR. 300/2 RECEIVER.

WE/W. 6890. Sh. 1.

(33)

COMPONENT LIST FOR RECEIVER SUPPLY UNIT.

TYPE 889.

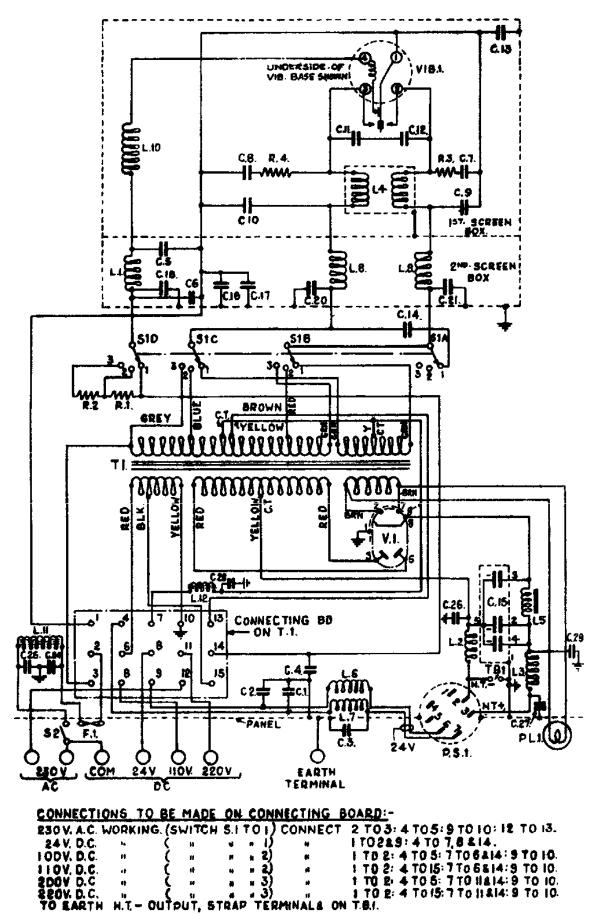
Note. It is essential, when ordering spares for this Unit, to quote the Type reference shown on the Supply Unit (Type 889), Serial No. of Unit, the reference number of the component (e.g., C5), and the drawing number of the component, thus:—

Type 889, MC...., C5, WIS, 3368/C, Sh. 1, Ref. 1.

The component part references in column 1 will be found on Drg. WE/W. 7530/C, Sh. 1, page 37.

Ref.	Description.	Nominal Value.	Drawing No.	Adm. Ref.
CONDE	NSERS.			
C1	Condenser.	$2\mu F$.	WIS.3367/C Sh. 1, Ref. 1,	M740
Č2	Condenser.	As C1.	As Cl.	M740
C3	Condenser.	As Cl.	As Cl.	M740
C4 C5 C6 C7 C8	Condenser.	As Cl.	As C1.	M740
~ ~	Condenser.	0.1μF.	WIS.2927 Sh. 1, Ref. 7,	M741
76	Condenser.	As C5.	As C5.	M74
~~	Condenser.	As C5.	As C5.	M74
čá	Condenser.	As C5.	As C5.	M741
Ď,	Condenser.	As C5.	As C5.	M74
ČÍÓ	Condenser.	As C5.	As C5.	M74
Čii	Condenser.	0.1μF.	WIS.2927 Sh 1, Ref. 8,	102 / 41
Č12	Condenser.	As Cl 1.	As Cl1.	
Č13	Condenser.	0.5μF.	WIS.2927 Sb 1, Ref. 11,	M742
Č14	Condenser.	$2\mu \dot{\mathbf{F}}$.	As Cl.	M740
Či5	Condenser, Electrolytic.	$8+8+8\mu F$.	WIS.2781.	M73
ČIĞ	Condenser.	As Cl3.	As £13.	M74
ČĺŽ	Condenser.	As C13.	As Ci3.	M74
Č18	Condenser.	0.01µF.	WIS.2970 Sh. 1, Ref. 16.	M93
C20	Condenser.	As C18.	As CI8-	M93
C21	Condenser.	As C18.	As Cl8.	M93
C24	Condenser.	As C5.	As C5.	M74
C25	Condenser.	As C5.	As C5.	M74
C26	Condenser.	As CS.	As C5	M74
C27	Condenser.	As C5.	As C5.	M74
C28	Condenser.	As C5.	As C5	M74
C29	Condenser.	As C13.	As C13.	M74
FUSEH	OLDERS.			
FI	Fuseholder.		WIS.2647 Sh. 1, Ref. 1.	M 67
CHOKE	x s.			
Ll	Choke.	550µH.	WIS.3360/C Sh. 1, Ref. 1.	M73
L2	Choke.	As L1.	As L ₁ .	M73
L3	Choke.	As L1.	As Li	M73
Ľ4	Choke.	650μΗ.	WIS 3631/C Sh. 1, Ref. 1.	M73
ī.5	Choke.	7H.	WIS.3362/C Sh. 1. Ref. 1.	M 73
L6	Choke.	450μH.	WIS.3391/C Sh. 1, Ref. 1.	M93
L7	Choke.	As L6.	As L6.	M93
ī.8	Choke.	1.75µH.	WIS.3402/C Sh. 1, Ref. 1,	11173
L9	Choke.	As L8.	As L8.	
Lio	Choke.	As L8.	As L8.	
LII	Choke.	110µH.	WIS.3401/C Sh. 1, Ref. 1.	M93
L12	Choke.	As L.11.	As Ltt.	M93
PLI	Lamp, Pilot.	6 volt 0.3 amps.	WIS 3181/C Sh. 1, Ref. 7.	M51
PSt	Socket, 7 pin.	Yellow.	WSK.836 Sh 1, Ed. L.	M78

Ref.	Description.	Nominal Value.	Drawing No.	Adm. Ref.
RESIST.	ANCES.			
R1	Resistance.	800 ohms.	WIS.3366/C Sh. 1, Ref. 1.	M743
R2	Resistance.	1,200 ohms.	WIS.3366/C Sh. 1, Ref. 2.	M744
R3	Resistance.	47 ohms.	WIS.2630 Sh. 1, Ref. 7.	M745
R4	Resistance.	47 ohms.	As R3.	M745
SWITCH	IFS.			
Si	Switch, Rotary.	4 pole, 3 way.	WIS.3358/C Sh. 1, Ref. 1,	M737
S2	Switch, On-Off.	• • •	WIS.1012.	M738
ŢĪ	Transformer.		WIS.3359 Sh. 1, Ref. 1.	M732
TBI	Tag Board.	2 way.	WIS.2792.	
	Terminal Block.	6 way.	WIS.3220/C Sh. 1, Ref. 4.	M739
V1	Valve, Type OZ4.			CV692
VIBI	Vibrator.	24 volt.	WIS.2497 Sh. I, Ref. 5.	M488



WE/W. 7350/C. Sh. 1.

CIRCUIT DIAGRAM OF TYPE 889 SUPPLY UNIT FOR TYPE CR. 300/1 & 2 RECEIVER.

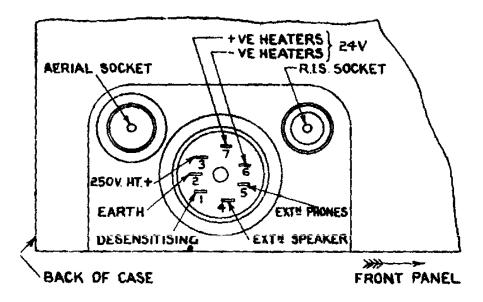


Fig. 5. Power Socket Connections.

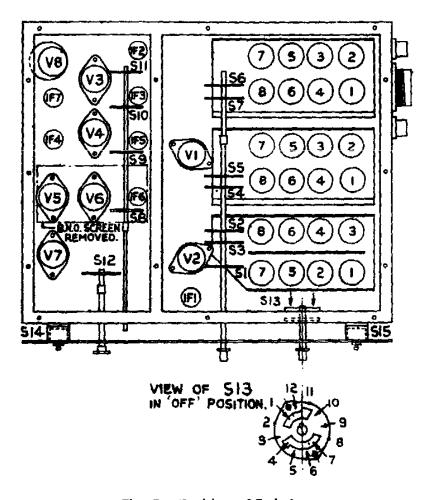


Fig. 7. Position of Switches.

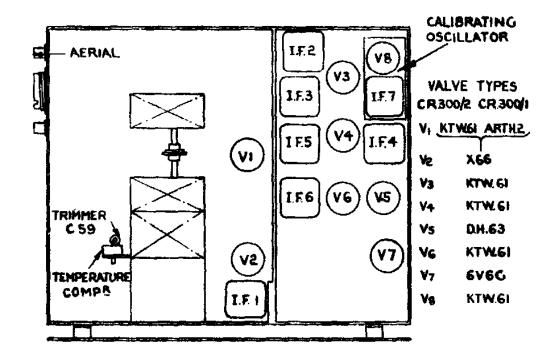
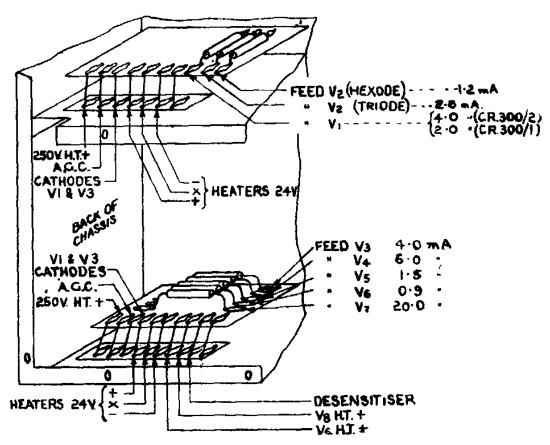


Fig. 6. Position of Valves in Receiver.



Note—In the CR.300/2 model the connection between the 3rd pair of tags from the right (V.8 H.T. +) is omitted.

Fig. 8. Checking Valve Feeds.

(39)

EVERYTHING 4 LESS





ENJOY YOUR BOOKS

PLEASE VISIT OUR STORE FOR EVEN MORE GREAT STUFF!

WWW.EVERYTHING4LESSSTORE.COM COPYRIGHT NOTICE

ALL MATERIALS INCLUDING CD/DVD AND PDF
FILES ARE COPYRIGHTED
WWW.EVERYTHING4LESSSTORE.COM VON
WALTHOUR PRODUCTIONS AND MAY NOT BE
REPRODUCED, COPIED OR RESOLD UNDER ANY
CIRCUMSTANCES. YOU MAY HOWEVER MAKE A
COPY FOR YOUR OWN PERSONAL BACKUP.
MATERIALS ARE FOR PERSONAL USE ONLY.

IF YOU PURCHASED THIS FROM ANYWHERE BUT FROM US PLEASE NOTIFY US IMMEDIATELY SO THAT WE MAY CHECK IF YOU PURCHASED FROM AN AUTHORIZED RESELLER SO WE CAN LET YOU KNOW IF YOU NEED TO RETURN FOR FULL REFUND FROM AN UNAUTHORIZED SELLER.

THANKS AGAIN AND PLEASE TAKE THE TIME TO VISIT OUR STORE.

ATTENTION! EVERYTHING ON SALE NOW!!





THIS PAGE COPYRIGHT VON WALTHOUR PRODUCTIONS WWW.EVERYTHING4LESSSTORE.COM