## INSTRUCTIONS for OPERATING the PANDA "CUB" TRANSMITTER

Assuming that the output of the transmitter is correctly matched into a low impedance load such as a dipole or through an antenna tuning unit (if the antenna is high impedance) properly adjusted proceed as follows:-

1. Switch to required band,

2. Set V.F.O. to approx. desired frequency.

Switch power "ON".

3. Switch to "FONE" on "C.W." as required. If FONE, plug in crystal mike and turn audio control to approx. "5". If C.W. plug in key after tuning procedure has been carried out.

Set"loading"control to about 8 or 9.

As soon as meter reads, tune tank to resonance (indicated

by"dip".

- 7. Increase loading by turning "loading" control anti-clock wise in SMALL steps, being careful to re-tune tank to resonance EACH TIME LOAD is adjusted. Repeat this procedure until the meter reads 80 m/as for C.W. or 50 m/as for FONE.
- 8. For FONE only turn up audio control until the meter needle just moves when speaking into the microphone.

When changing frequency it is ESSENTIAL to re-tune tank

after V.F.O. has been re-set.

For 1.8 mcs. operation put switch at rear in downward 10. position and load to 25 m/as.

We strongly recommend the use of a "dummy load" for initial tuning procedure as this enables the operator to see just what happens when the transmitter is correctly loaded and modulated. A suitable dummy load may be made up by wiring FOUR 12 volt 6 watt auto bulbs in series and plugging into the antenna output socket.

The A.T.U.150 bandswitched antenna tuning unit is admirably suited for use with the "CUB" transmitter.

## Modification list.

9.

R.F.C.2, is replaced by a 47K ohm, 1 watt resistor and taken to the stabilised screen supply. R 17 is no longer necessary V. F.O. and is removed.

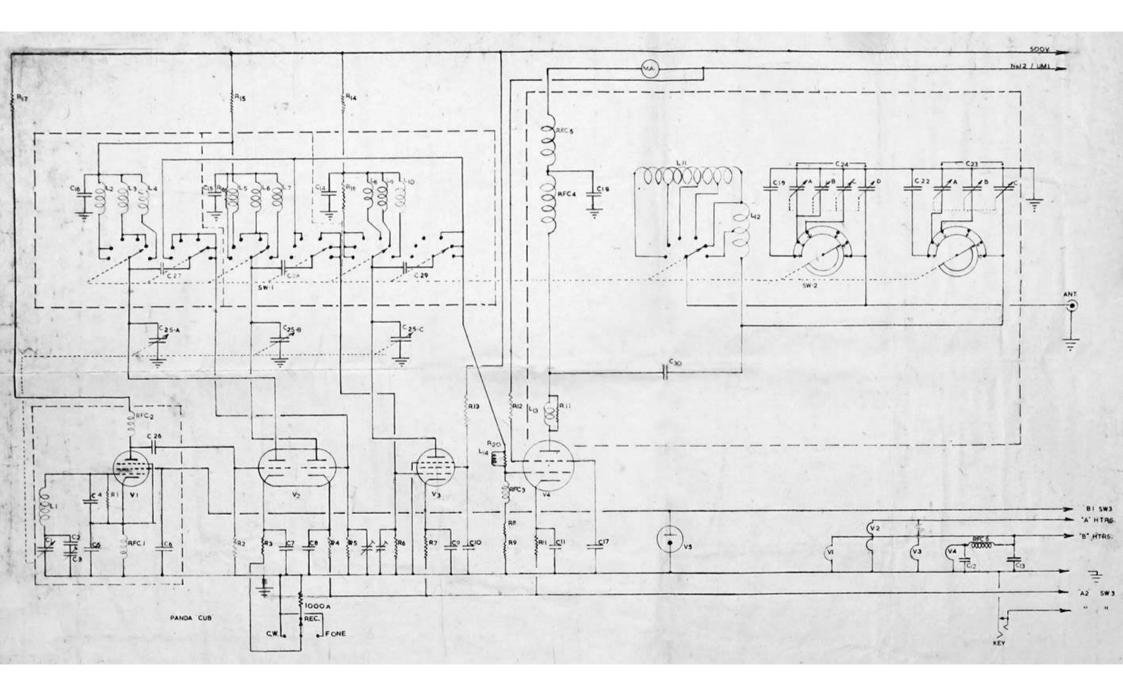
A parasitic stopper is fitted into No. 2 grid of V. 2. .A. tank circuit. A 100 pf. mica condenser is placed between the

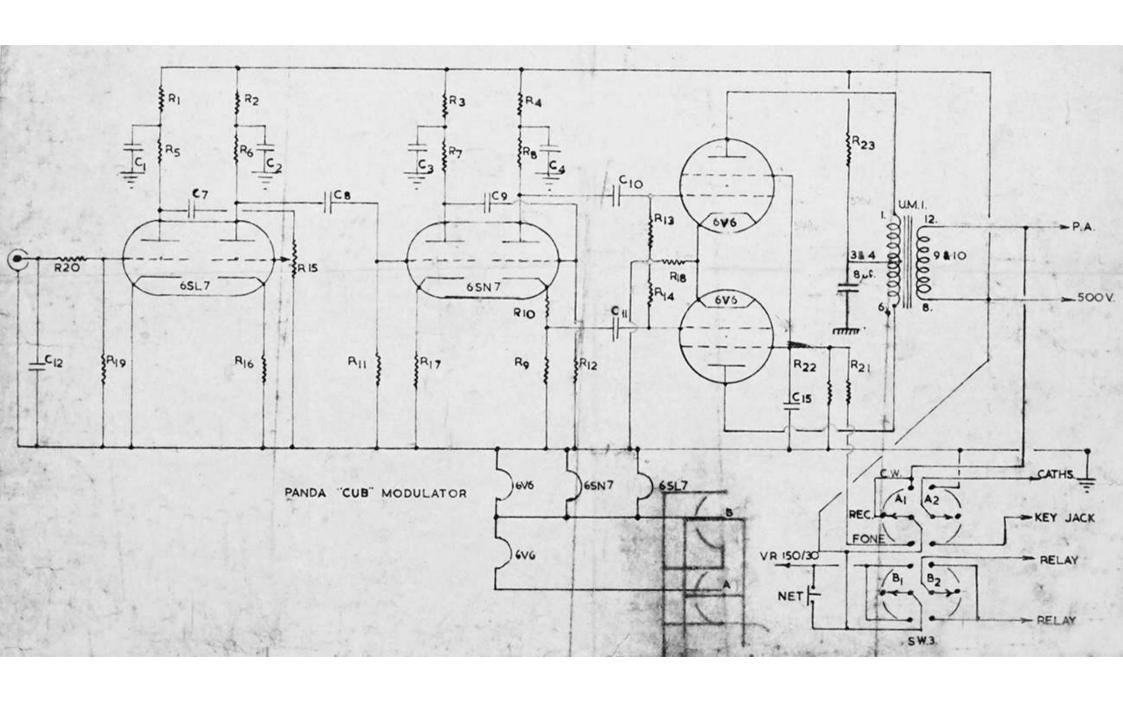
wiper and the 3.5 mc. contact of the tank-coil shorting switch (part of S.W.2). Its purpose is to DETUNE the unused portion of the tank-coil to avoid absorption.

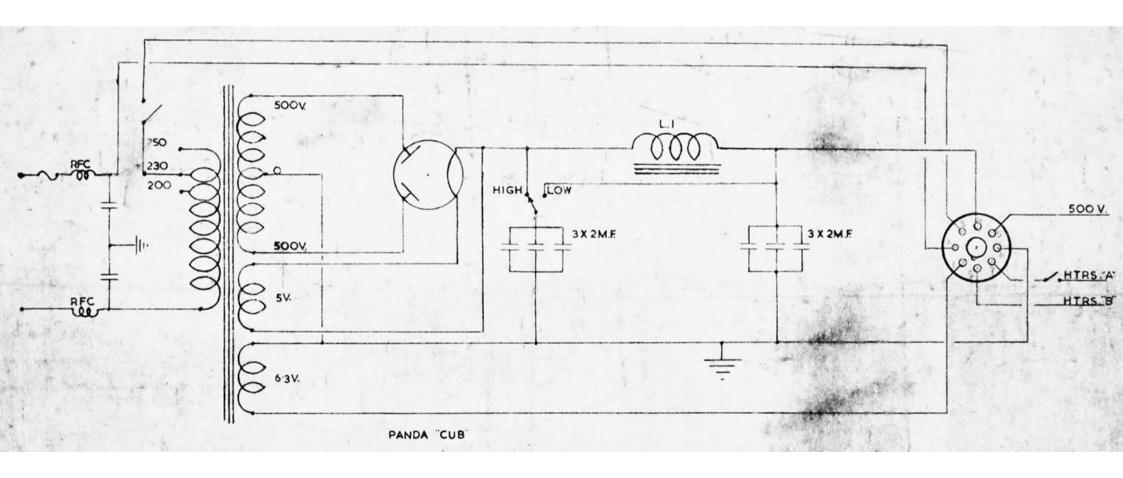
V.R.150/30 A 10K ohm w/w resistoris fitted in the H.T. feed between the anode of the VR150/30 and B 1 on S.W.3.

Netting Facilities. A panel wounted push button M+B switch is wired across the contacts of B 1 on S.W.3 and enables H.T. to be fed to V.F.O. when in REC. position; giving QUIET Q S Y.

Please note: The white push button is for " netting" purposes on to the incoming cignal of the receiver.







## The PANDA " CUB" - R.F. CIRCUIT

Resistors.	Capacitors.			Inductances
R 1. 100 K.	V.1.	10 pf. v	variable	L.1. V.F.O. Coil 1.8mc
2, 100 K,	2.	10 pf. N	N. 750.	2. 1.8 mc.
3. 680 ohms.		100 pf.	variable.	3. 3.5 "
1. 680 ohms.	4.	350 pf.	S. Mica.	4. 7.0 "
5. 22 K.	5.	1	11 11	53.5"
6, 100 K.	6.	.01 500v	, paper.	6. 7.0 "
7. 330 ohms ½ watt.			"	7. 14.0 "
8. 10 K.	8.	11 11	11	8. 14 "
9. 3 by 47 in parallel		11 11	1/	9. 21 "
.0. 300 ohms.	10,	11 11	11	10. 28 "
11. 50 "	11.	11 11	11	11. P.A. tank coil 1.8-14
2. 30 K. 3 watts.	12.	nii II. n		12. 10+15 tank-coil
3. 60 K. 1 watt.	13.	11 11		L.14 Par. Sup. 13. Parasitic type.
14. 6 K. 10 watts.	14.	11 11		R.F. C.1. 2.5 M.H.
	15.			2. " "
16. 5.6 K. 1 watt.	16.	11 11	4	3. " "
	17.	.001 Mic	e 2000v.	
serve of the St			11	
		i ii		6. "
20. 50 ohms.				
21.		11		V.1. EF50.
22.		18		2. ECC81.
				3. 5763.
				4. 807.
			30	
	(a)	The same of the same of		F WÎT 50 / 70
				5. VŘ150/30.
		500 pf.		
	28.			
	30.	.001	2000v.	