

RECEPTION SETS, P.C.R., NOS. 1, 2 AND 3TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

(Service data - Second to fourth echelon)

ALIGNMENT AND PERFORMANCE TESTINGI.F. MEASUREMENTS1. Sensitivity

Apply a signal of approx. 465kc/s modulated 30% at 400c/s to the F.C. grid. With the receiver gain at maximum, adjust the input for an output of 50mW, tuning the signal generator to resonance with the I.F. amplifier. The input must not be greater than 15 $\mu$ V. The resonance frequency must be within 465  $\pm$  1kc/s.

2. Selectivity

With an input as described in para. 1 increase the input by the amounts given in the table below, and in each case detune the signal generator to each side in turn until the output drops to 50mW. Note the difference between the two frequencies at which this occurs to obtain the bandwidth, which must be within the tolerances in the following table:-

Input	Bandwidth
+ 6db.	4kc/s min.
+ 20db.	10.5kc/s max.
+ 40db.	16kc/s max.
+ 60db.	23kc/s max.

R.F. MEASUREMENTS3. Adjustments

During trimming and while measuring the R.F. sensitivity, a load consisting of 3,000 $\Omega$  in series with 0.1 $\mu$ F is connected between the second I.F. grid and the chassis. This reduces the I.F. amplification 40 to 50 times.

The following table gives the trimming points:-

P.C.R.2			P.C.R.3		
Band	Trim	Track	Band	Trim	Track
S.W.	20Mc/s	6.5Mc/s	S.W.2	20Mc/s	8.5Mc/s
M.W.	200m.	520m.	S.W.1	7Mc/s	2.6Mc/s
L.W.	1,000m.	1,800m.	M.W.	200m.	520m.

(Note: On the P.C.R.3., S.W.2 must be trimmed before S.W.1 and M.W.)

4. R.F. sensitivity

Connect a signal generator to the aerial and earth terminals via a standard dummy aerial on M.W. and L.W. and via a 400Ω non-inductive resistance on S.W. The signal generator should be modulated 30% at 400c/s. With the set damped as described in para. 3, the input for 50mW output must not be greater than the figures in the following table, which gives the production test frequencies and wavelengths:-

P.C.R.2		P.C.R.3	
Frequency	μV	Frequency	μV
20Mc/s	60	20Mc/s	60
14Mc/s	60	12Mc/s	60
9Mc/s	70	8.5Mc/s	70
6.5Mc/s	70	7Mc/s	30
		4Mc/s	30
200m.	20	2.6Mc/s	35
300m.	20		
520m.	25	200m.	20
		300m.	20
1,000m.	60	520m.	25
1,800m.	80		

5. I.F. rejection

With the set damped, apply an input of approx. 465kc/s connected as described in para. 4 with the set tuned to 520m. Tune the signal generator for maximum output from the set and adjust the input for an output of 50mA. The input must not be less than 40mV.

6. A.V.C.

With the signal generator connected as described in para. 4 and the set not damped, tune in a signal of 10μV at 300m., and adjust the gain-control for an output of 10mV. Increase the input to 100mV; the output must not rise more than 11db.

7. Over-all A.F. response

With the signal generator connected as described in para. 4 and the set not damped, tune in a signal of 10mV at 300m. Change the modulation frequency to 5,000c/s, and readjust both the tuning control and the aerial trimmer for the minimum between the two maxima indicated on the output meter. Return the modulation frequency to 400c/s, and adjust the gain for an output of 500mW (referred to as 0db.). Set the modulation frequency to the values given below and the output readings should be within the limits given:-

A.F.	Output
100c/s	+3 to -1db.
150c/s	+2 to -1db.

7. (contd.)

A.F.	Output
400c/s	0db.
1,000c/s	+2 to -1db.
2,000c/s	+3 to 0db.
3,000c/s	+2db.
4,000c/s	-1 to -6db.
5,000c/s	-8 to -17db.

Set the Tone switch to 'Low'

A.F.	Output
5,000c/s	-22 to -28db.

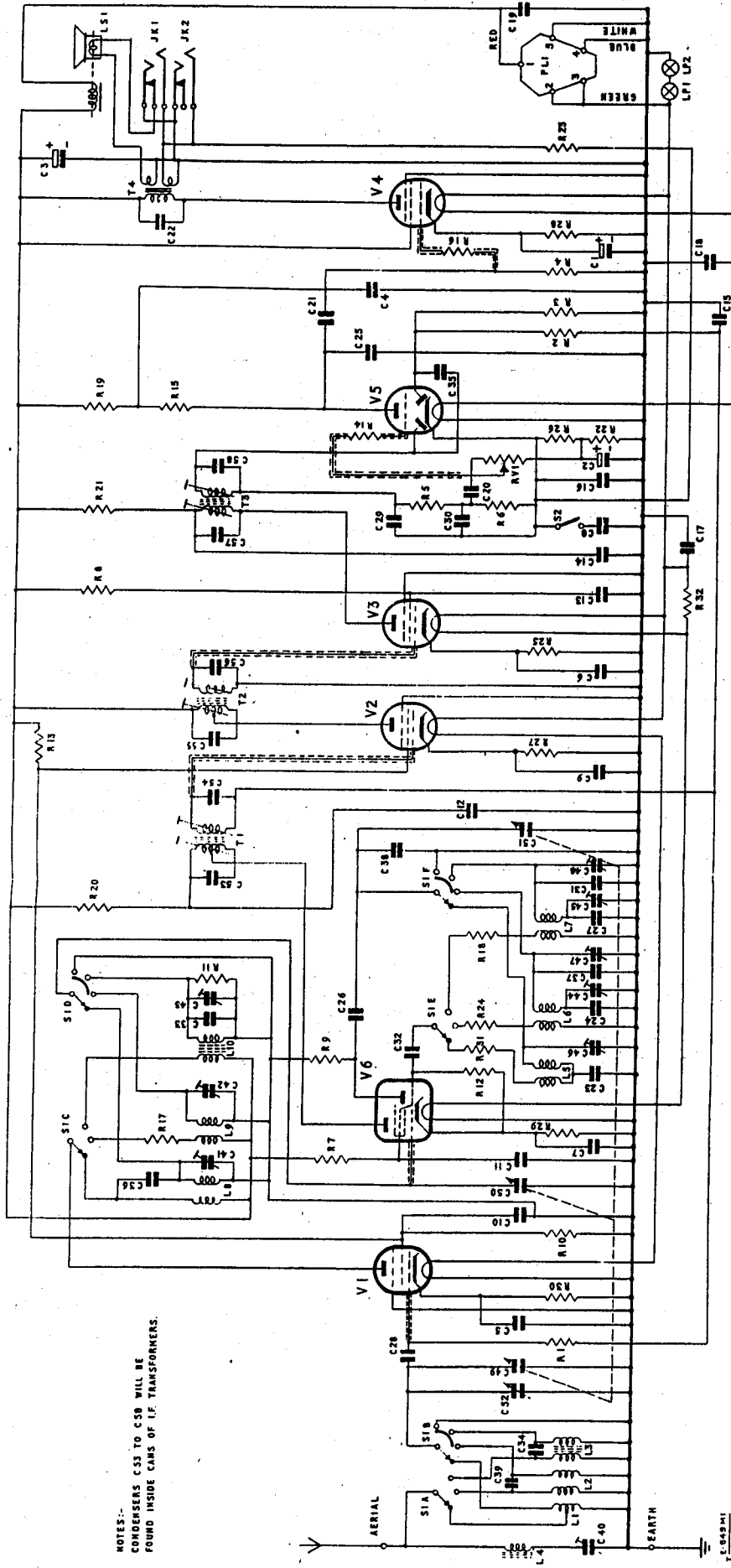
8. A.F. output

With input as described in para. 7 and 400c/s modulation, increase the gain-control until the point where distortion just becomes evident. Then measure the output, which should be at least 2W. Next turn the gain to maximum and again read the output, which should be at least 5W.

9. Calibration

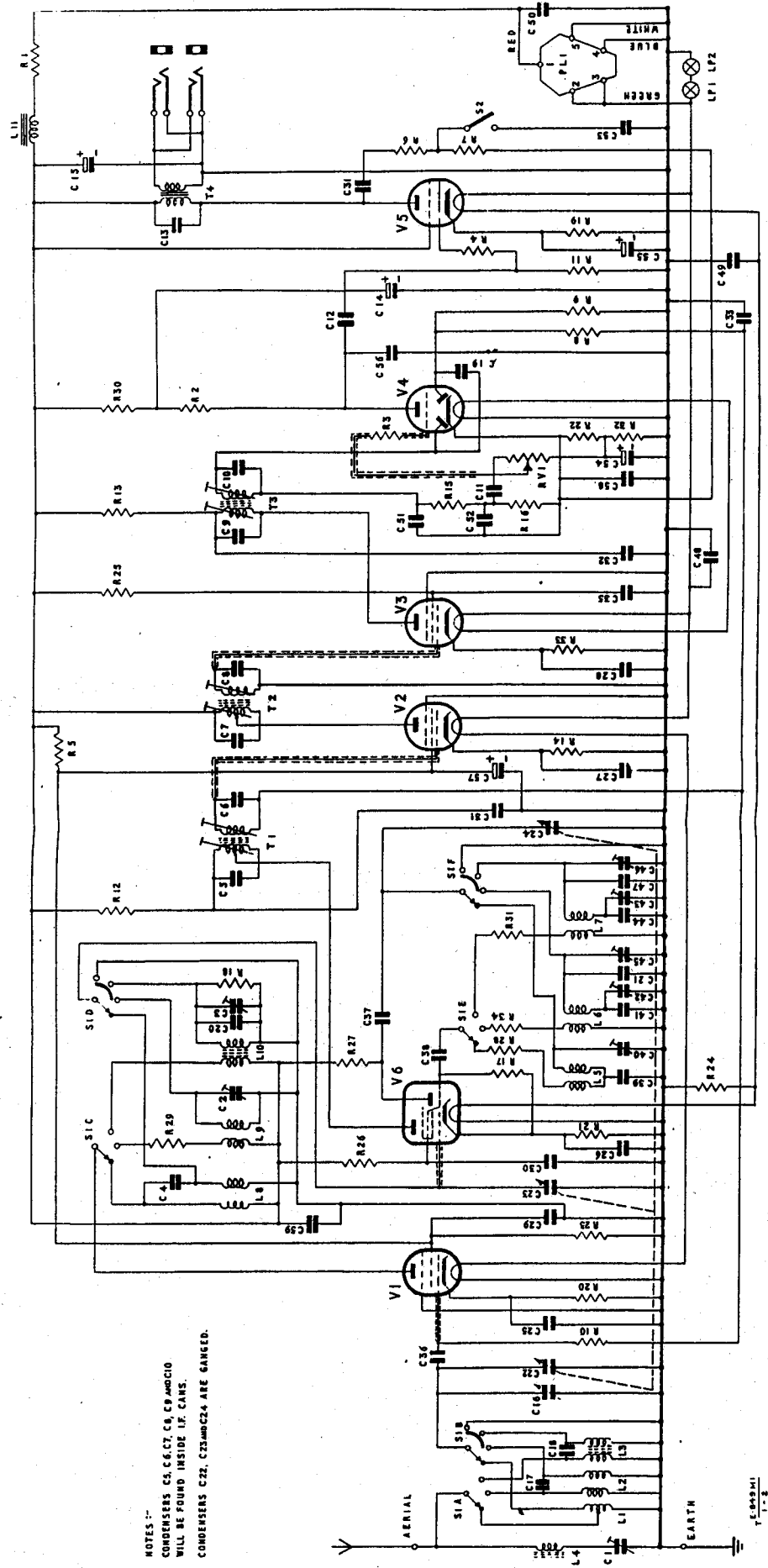
Maximum tolerances:-

P.C.R.2	P.C.R.3
<p>S.W. <math>\left( \begin{array}{l} + 100\text{kc/s above } 12\text{Mc/s} \\ \pm 50\text{kc/s below } 12\text{Mc/s} \end{array} \right)</math></p> <p>M.W. <math>\pm 2.5\text{m.}</math> L.W. <math>\pm 10\text{m.}</math></p>	<p>S.W.2 <math>\left( \begin{array}{l} + 100\text{kc/s above } 12\text{Mc/s} \\ \pm 50\text{kc/s below } 12\text{Mc/s} \end{array} \right)</math></p> <p>S.W.1 <math>\left( \begin{array}{l} + 50\text{kc/s above } 5\text{Mc/s} \\ \pm 25\text{kc/s below } 5\text{Mc/s} \end{array} \right)</math></p> <p>M.W. <math>\pm 2.5\text{m.}</math></p>



NOTES:-  
CONDENSERS C31 TO C39 WILL BE  
FOUND INSIDE CANS OF I.F. TRANSFORMERS.

Fig. 1 - Reception set, P.C.R. No. 1



NOTES:-  
CONDENSERS C5, C6, C7, C9, C9 AMORCIO  
WILL BE FOUND INSIDE I.F. CANS.  
CONDENSERS C22, C23 AMORC24 ARE CHANGED.

Fig. 2 - Reception set, P.C.R. No. 2

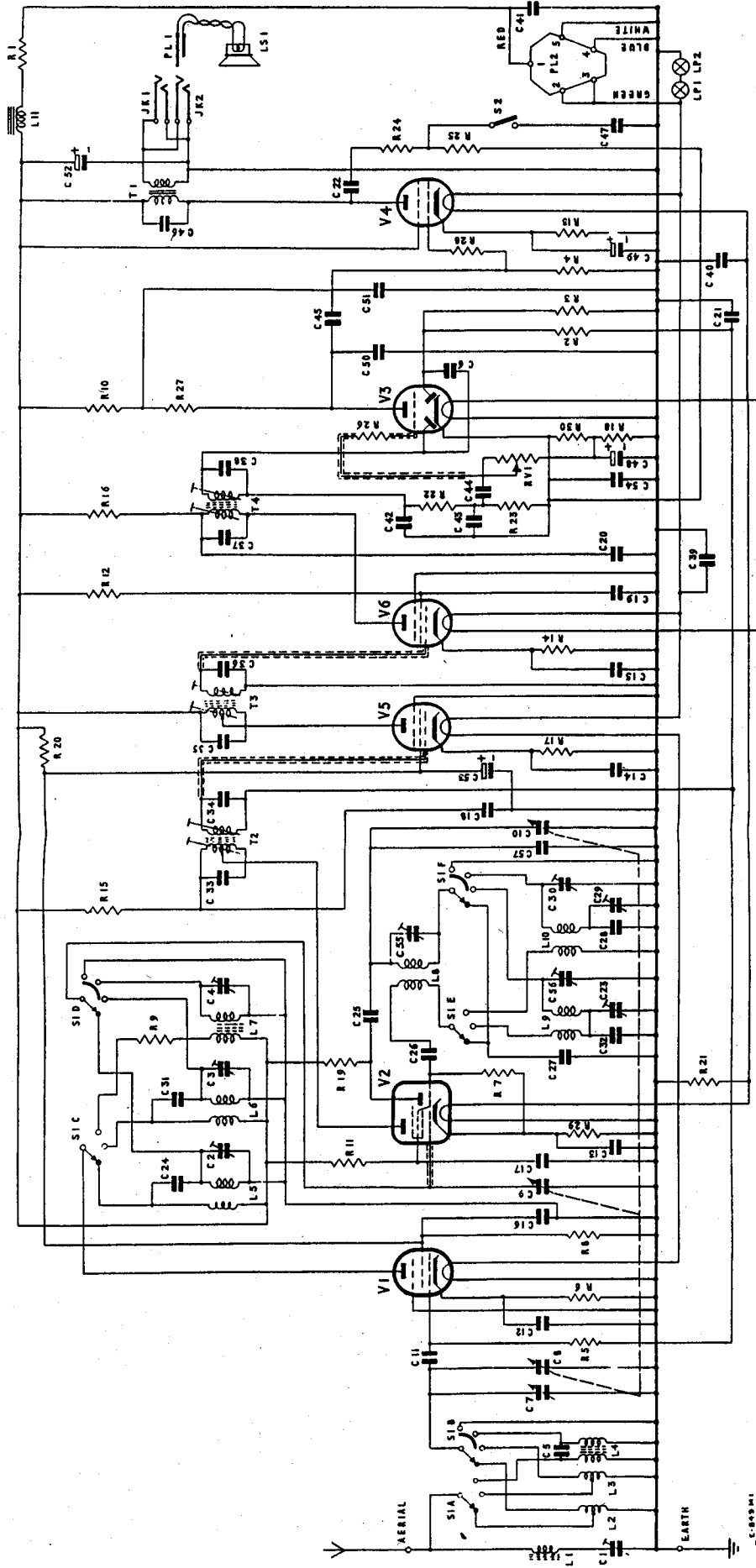


Fig. 3 - Reception sets P.C.R. Nos. 3 and 3 TFL

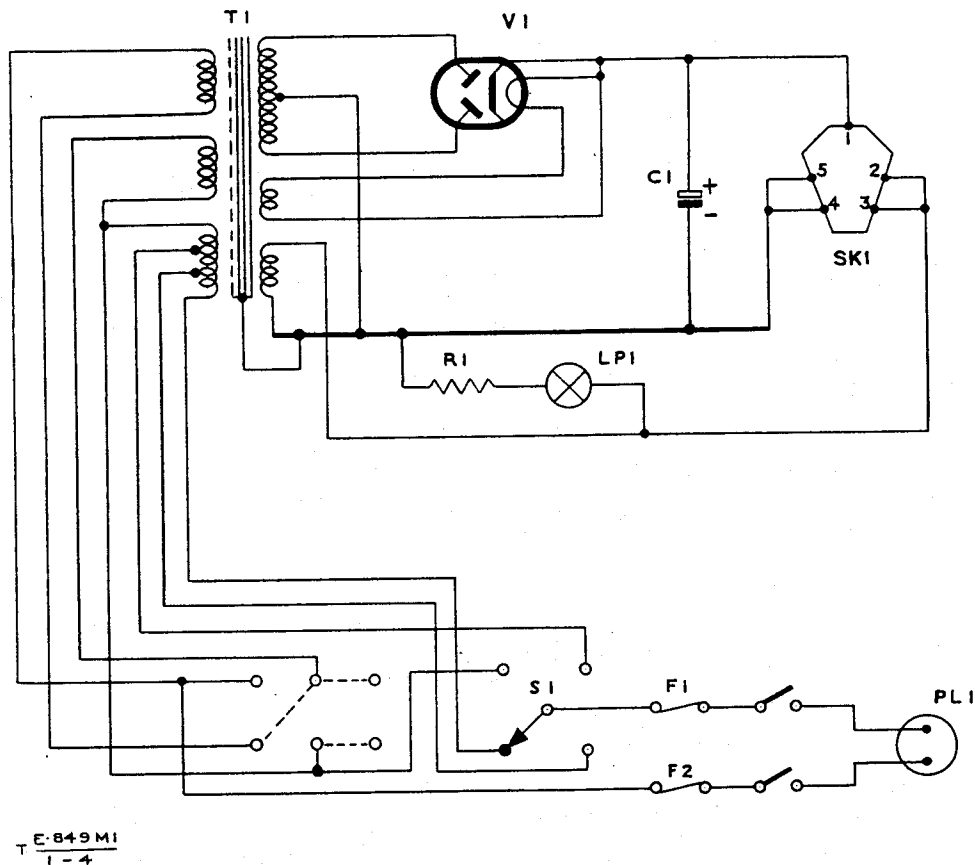


Fig. 4 - Supply unit, rectifier No. 17



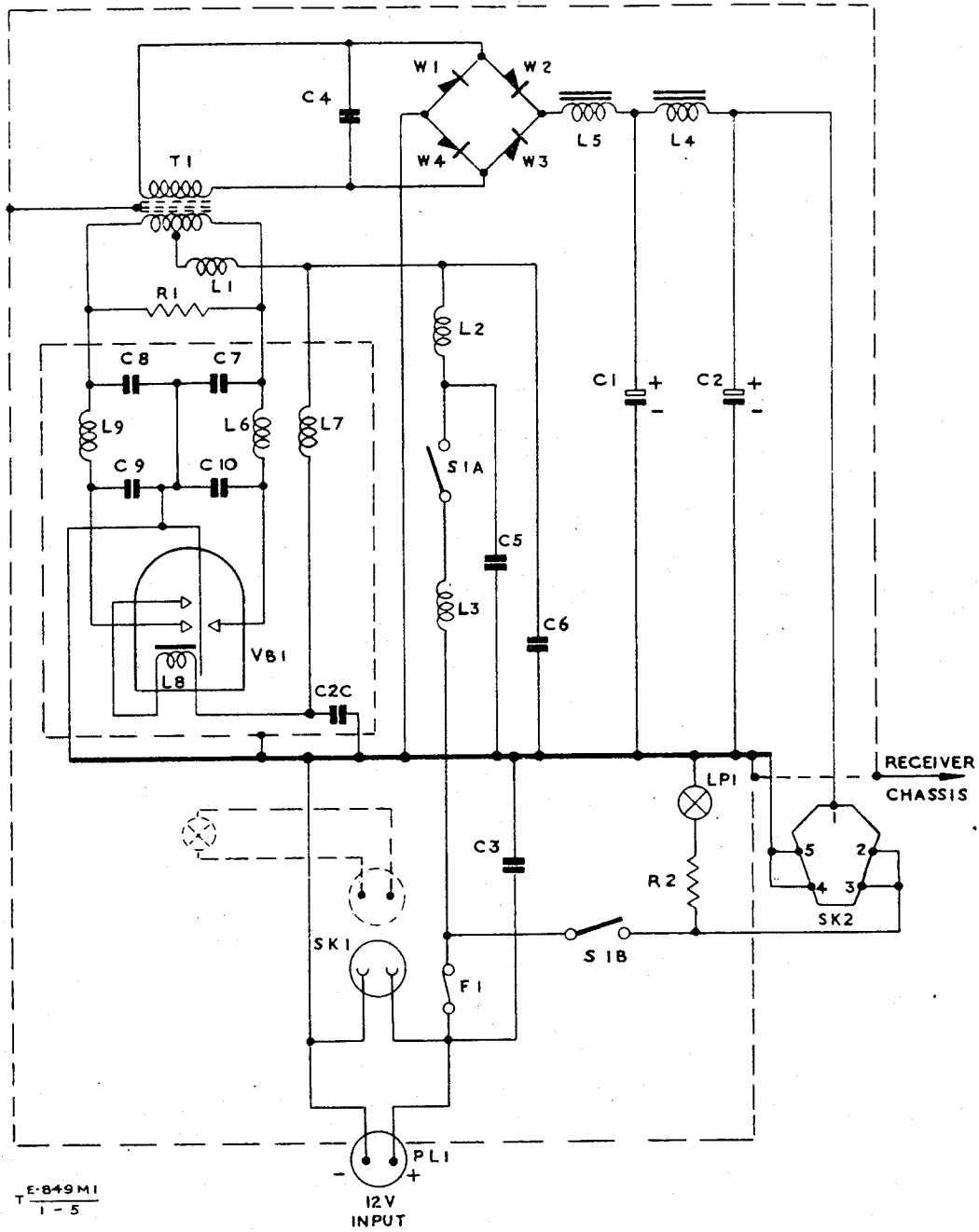


Fig. 5 - Supply unit, vibratory No. 8 and No. 9

END

**NOTES:**

TO DATE, FOUR MODELS OF P.C.R. RECEIVER ARE AVAILABLE. ALTHOUGH ALL THESE MODELS ARE OF SIMILAR APPEARANCE & CONSTRUCTION, THEY CAN BE CLASSIFIED BY REFERENCE TO THE MAKER'S LABEL WHICH IS ON THE FRONT PANEL. THE FOUR TYPES OF RECEIVER ARE AS FOLLOWS: (1) P.C.R. 1 (2) P.C.R. 2 (3) P.C.R. 3 THE CIRCUIT DIAGRAM ABOVE REFERS TO THE TYPE P.C.R. 2, BUT SINCE TYPE P.C.R. 1 IS ALMOST IDENTICAL TO THIS, THEY ARE GROUPED TOGETHER FOR THE PURPOSES OF THIS DESCRIPTION. ESSENTIAL DIFFERENCES OF THE OTHER TYPES ARE THAT THE P.C.R. HAS A BUILT-IN LOUDSPEAKER WHILST THE P.C.R. 3 OMITTS THE LONG-WAVE BAND TO INCORPORATE BETTER SHORT-WAVE COVERAGE. OTHER MINOR VARIATIONS IN CIRCUITRY OF THE P.C.R. & P.C.R. 3 ARE REPRODUCED ON THIS SHEET.

**GENERAL SPECIFICATIONS:**

① FREQUENCY COVERAGE IN 3 SWITCHED BANDS

P.C.R. AND P.C.R. 1 & 2	P.C.R. 3
800-2120 M 190-18M W E	190-570 M 2.3-7.5 M W 7-13 M W

② POWER SUPPLIES BY EXTERNAL UNIT

ALL MODELS  
HT 250 V (ABOUT 65 WA)  
LT 12 V (ABOUT 7 A)

③ DIMENSIONS & WEIGHT ALL MODELS

17" 8" x 10" 25 lbs

**RESISTORS:**

ALL RESISTORS ARE 1/2 WATT CARBON TYPE UNLESS OTHERWISE STATED

REFERENCE	P.C.R.	P.C.R. 1	P.C.R. 2	P.C.R. 3
R 1 A	470k	470k	470k	470k
B	470k	470k	470k	470k
C	470k	470k	470k	470k
D	470k	470k	470k	470k
R 2 A	220n	220n	220n	220n
R 3 A (with)	47k	47k	47k	47k
R 4 A	10k	10k	10k	10k
B	10k	10k	10k	10k
C	10k	10k	10k	10k
R 5 A	47k	47k	47k	47k
B	47k	47k	47k	47k
R 6 A	150k	150k	150k	150k
B	150k	150k	150k	150k
R 7 A	470n	270n	270n	270n
R 8 A	56k	56k	56k	59k
R 9 A	68n	68n	-	-
R 10 A	1k	1k	-	-
B	1k	1k	1k	1k
R 11 A	2.2k	2.2k	2.2k	2.2k
B	2.2k	2.2k	2.2k	2.2k
C	2.5k	2.2k	2.2k	2.2k
R 12 A	3.3k	1.5k	1.5k	1.5k
R 15 A	39k	39k	39k	39k
R 14 A (w)	-	39n	39n	39n
R 15 A	270k	270k	270k	270k
B	270k	270k	270k	270k

**CONDENSERS:**

C - COMPRESSION TRIMMER  
S - SILVER MICA  
B - BEEHIVE TRIMMER  
M - MICA  
M.A. - MICA

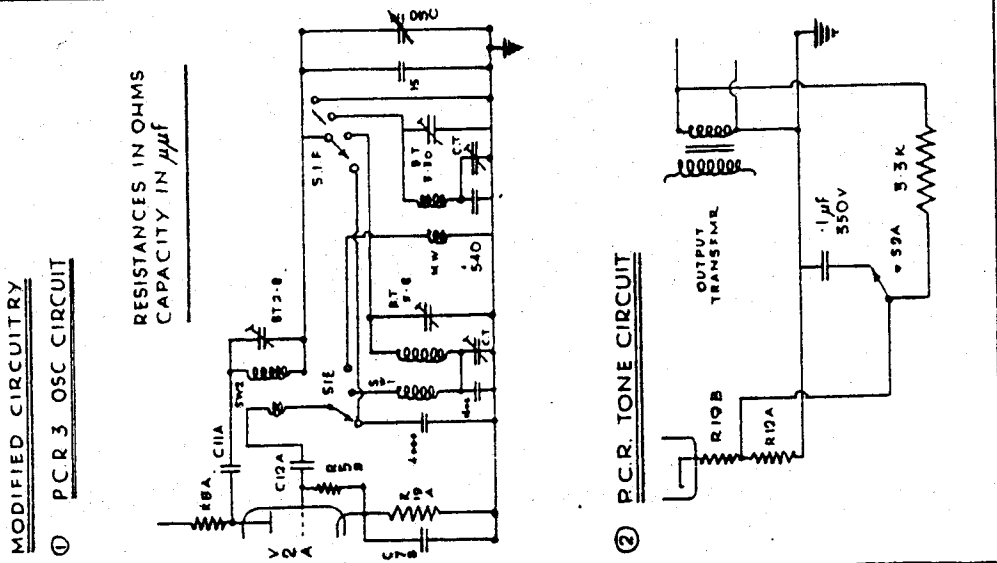
REF.	P.C.R.	P.C.R. 1	P.C.R. 2	P.C.R. 3	REF.	P.C.R.	P.C.R. 1	P.C.R. 2	P.C.R. 3
C 1 A	CT	CT	C	C	C 13 A	400pF	400pF	400pF	400pF
B	CT	CT	C	C	C 14 A	500pF	500pF	500pF	500pF
C	CT	CT	C	C	C 15 A B	CT	CT	CT	CT
C 2 A	5pF	5pF	5pF	5pF	C 16 A B	BT	BT	BT	BT
C 3 A	50pF	50pF	50pF	50pF	C 17 A	180pF	180pF	180pF	180pF
C 3 B	50pF	50pF	50pF	50pF	C 18 A	80pF	80pF	80pF	80pF
C 4 A	50pF	50pF	50pF	50pF	C 19 A B	180pF	180pF	180pF	180pF
C 5 A B C	.0005	.0005	.0005	.0005	C 20 A B	.01uF	.01uF	.01uF	.01uF
C 6 A	100pF	100pF	100pF	100pF	C 21 A B	100pF	100pF	100pF	100pF
C 7 A B C D	.1uF	.1uF	.1uF	.1uF	C 22 A	.005uF	.005uF	.005uF	.005uF
C 8 A B C	.1uF	.1uF	.1uF	.1uF	B C	1000uV	1000uV	1000uV	1000uV
C 8 G	-	.1uF	.1uF	.1uF	C 23 A	.02uF	.02uF	.02uF	.02uF
C 10 A B	10pF	10pF	10pF	10pF	C 24 A B	10pF	10pF	10pF	10pF
C 11 A	200pF	200pF	200pF	200pF	C 25 A	10pF	10pF	10pF	10pF
C 12 A	50pF	50pF	50pF	50pF	B	10pF	10pF	10pF	10pF
					C 26 A	10pF	10pF	10pF	10pF
					C 27 A	10pF	10pF	10pF	10pF
					C 28 A	10pF	10pF	10pF	10pF
					C 29 A	10pF	10pF	10pF	10pF
					C 30 A	BT	BT	BT	BT

**NOTE:**

IN TYPE P.C.R. 3, R 4 A IS TO BE FOUND IN SERIES WITH L 7 A AND NOT IN PARALLEL AS HEATER CONNECTIONS INVOLVING HEATER CONNECTIONS IN HEATER

CONDENSERS:		INDUCTANCES:	
PCR	PCR <sub>3</sub>	REF	PCR
C.T.	C.T.	C13A	4000pf 400v
C.T.	C.T.	C14A	540pf 540v
C.T.	C.T.	C15A	80pf 80v
C.T.	C.T.	C16A	190pf 190v
C.T.	C.T.	C17A	190pf 190v
C.T.	C.T.	C18A	80pf 80v
C.T.	C.T.	C19A	180pf 180v
C.T.	C.T.	C20A	0.01uf 0.01v
C.T.	C.T.	C21A	100pf 100v
C.T.	C.T.	C22A	100pf 100v
C.T.	C.T.	C23A	0.02uf 0.02v
C.T.	C.T.	C24A	100pf 100v
C.T.	C.T.	C25A	100pf 100v
C.T.	C.T.	C26A	100pf 100v
C.T.	C.T.	C27A	100pf 100v
C.T.	C.T.	C28A	100pf 100v
C.T.	C.T.	C29A	100pf 100v
C.T.	C.T.	C30A	100pf 100v

REF	PCR	PCR 162	PCR 3
L1A	WAVE TRAP	WAVE TRAP	WAVE TRAP
L2A	SW/AF COIL	SW/AF COIL	SW/AF COIL
L3A	MW/AF COIL	MW/AF COIL	MW/AF COIL
L4A	LW/AF COIL	LW/AF COIL	LW/AF COIL
L5A	SW/RF COIL	SW/RF COIL	SW/RF COIL
L6A	MW/RF COIL	MW/RF COIL	MW/RF COIL
L7A	LW/RF COIL	LW/RF COIL	LW/RF COIL
L8A	SW/OSC COIL	SW/OSC COIL	SW/OSC COIL
L9A	MW/OSC COIL	MW/OSC COIL	MW/OSC COIL
L10A	LW/OSC COIL	LW/OSC COIL	LW/OSC COIL
L11A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L12A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L14A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L15A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L16A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L17A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L18A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L19A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L20A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L21A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L22A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L23A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L24A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L25A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L26A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L27A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L28A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L29A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L30A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L31A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L32A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L33A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L34A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L35A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L36A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L37A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L38A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L39A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L40A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L41A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L42A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L43A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L44A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L45A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L46A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L47A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L48A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L49A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L50A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L51A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L52A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L53A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L54A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L55A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L56A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L57A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L58A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L59A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L60A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L61A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L62A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L63A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L64A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L65A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L66A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L67A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L68A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L69A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L70A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L71A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L72A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L73A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L74A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L75A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L76A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L77A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L78A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L79A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L80A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L81A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L82A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L83A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L84A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L85A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L86A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L87A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L88A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L89A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L90A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L91A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L92A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L93A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L94A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L95A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L96A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L97A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L98A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L99A	I.F. TRANS	I.F. TRANS	I.F. TRANS
L100A	I.F. TRANS	I.F. TRANS	I.F. TRANS



REF	PCR	PCR 162	PCR 3
V1A	6X4	6X4	6X4
V2A	6X4	6X4	6X4
V3A	6X4	6X4	6X4
V4A	6X4	6X4	6X4
S1A	6-POLE	6-POLE	6-POLE
S2A	3-POSITION	3-POSITION	3-POSITION
S3A	3-WAFERS	3-WAFERS	3-WAFERS
S4A	B, D, E, F	B, D, E, F	B, D, E, F
S5A	WITH MUTING	WITH MUTING	WITH MUTING
S6A	WIPERS	WIPERS	WIPERS
S7A	SINGLE POLE	SINGLE POLE	SINGLE POLE
S8A	ON-OFF	ON-OFF	ON-OFF
S9A	WAFER TYPE	WAFER TYPE	WAFER TYPE

REF	PCR	PCR 162	PCR 3
T1A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T2A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T3A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T4A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T5A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T6A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T7A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T8A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T9A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T10A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T11A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T12A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T13A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T14A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T15A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T16A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T17A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T18A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T19A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T20A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T21A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T22A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T23A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T24A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T25A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T26A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T27A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T28A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T29A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T30A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T31A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T32A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T33A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T34A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T35A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T36A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T37A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T38A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T39A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T40A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T41A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T42A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T43A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T44A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T45A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T46A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T47A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T48A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T49A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER
T50A	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER	OUTPUT TRANSFORMER

USEFUL TECHNICAL DATA

① INTERMEDIATE FEED 46.1 KCS

② IF SENSITIVITY 1  $\mu\text{V}$  SIGNAL 30% MOD AT 800% DEFLECTION TO MIXER GRID GIVES ROUGHLY 75% MOD. OUTPUT

③ OUTPUT IMPEDANCE 70

CIRCUIT DIAGRAM OF PCR.2

REF NO C 92156

DRN

TRD

CHEKD

APPD

RECEPTION SETS, PCR, NOS 1, 2 AND 3  
(PCR No 3 and 3 TPL)

TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

Drive-box mechanism wear

SUMMARY

1. Cases of wear occur in the drive-box mechanism of the Reception set, PCR, No 3 and 3 TPL resulting in the holes through which the spindle passes becoming elongated.

This instruction details the action to be taken when such wear occurs.

2. Items affected:-

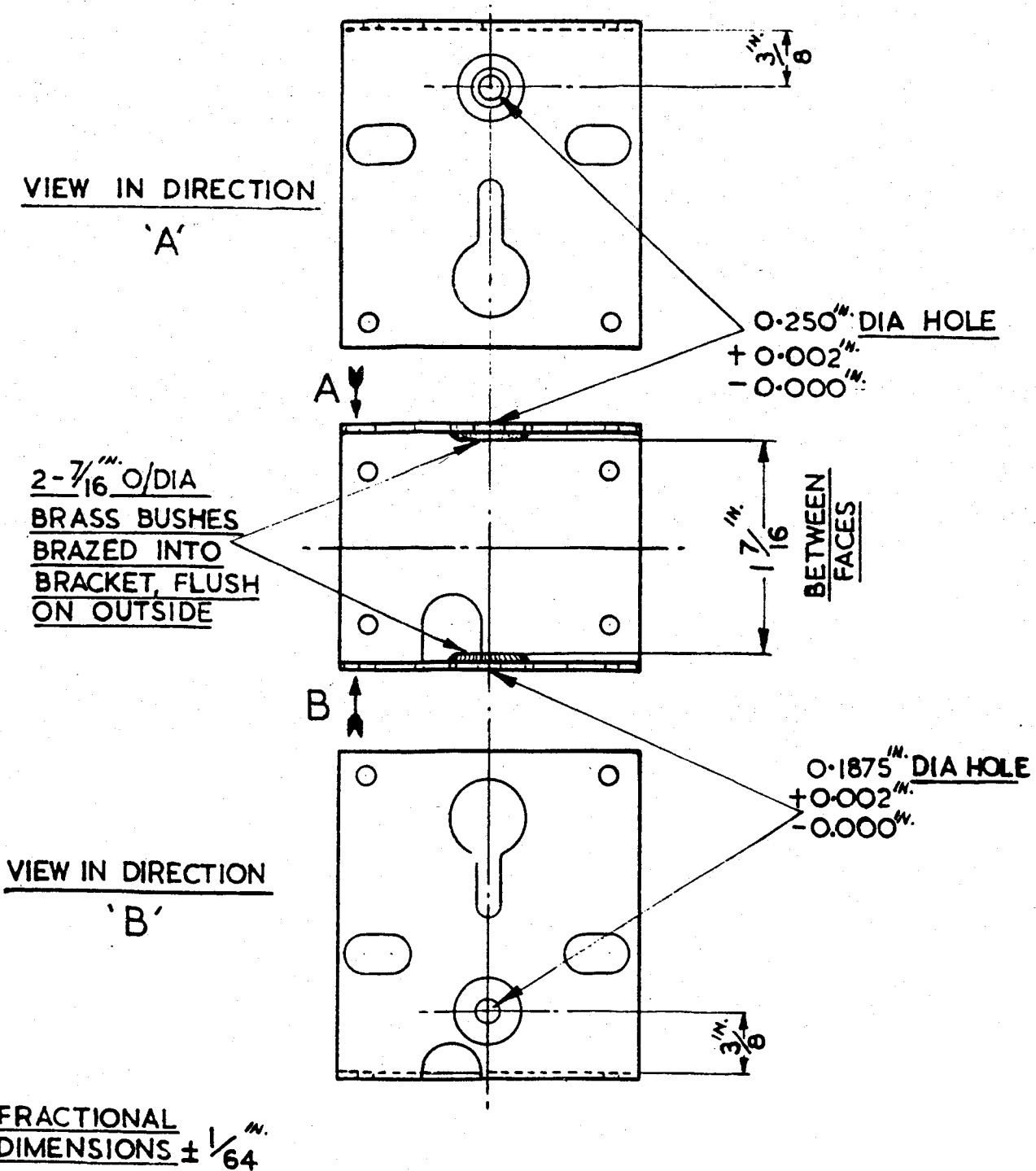
Reception sets, PCR, No 3 and No 3 TPL drive-box mechanism.

3. Action required by:-

- (a) REME workshops authorized to carry out field and base repairs
  - (i) Carry out this instruction when necessary.

DETAIL

4.
  - (a) Remove and strip the drive-box mechanism
  - (b) Enlarge front and back bearing holes to  $3/8$  inch diameter
  - (c) Prepare two brass bushes, one drilled with a  $1/4$  inch hole and the other with a  $3/16$  inch diameter hole
  - (d) Insert each bush in turn into position from inside the box, using the bush with the  $3/16$  inch diameter hole in the rear position. Silver solder both bushes into position
  - (e) Turn back the rear shoulder of the spindle  $1/64$  inch approx, ie, the thickness of the flange on the rear-bearing bush
  - (f) In cases of severe wear it may be necessary to turn up new spindles as a badly grooved spindle can damage the new bearings
  - (g) Re-assemble and refit the drive-box mechanism



E-849M2  
1-1

Fig 1 - Fitting of bushes

END