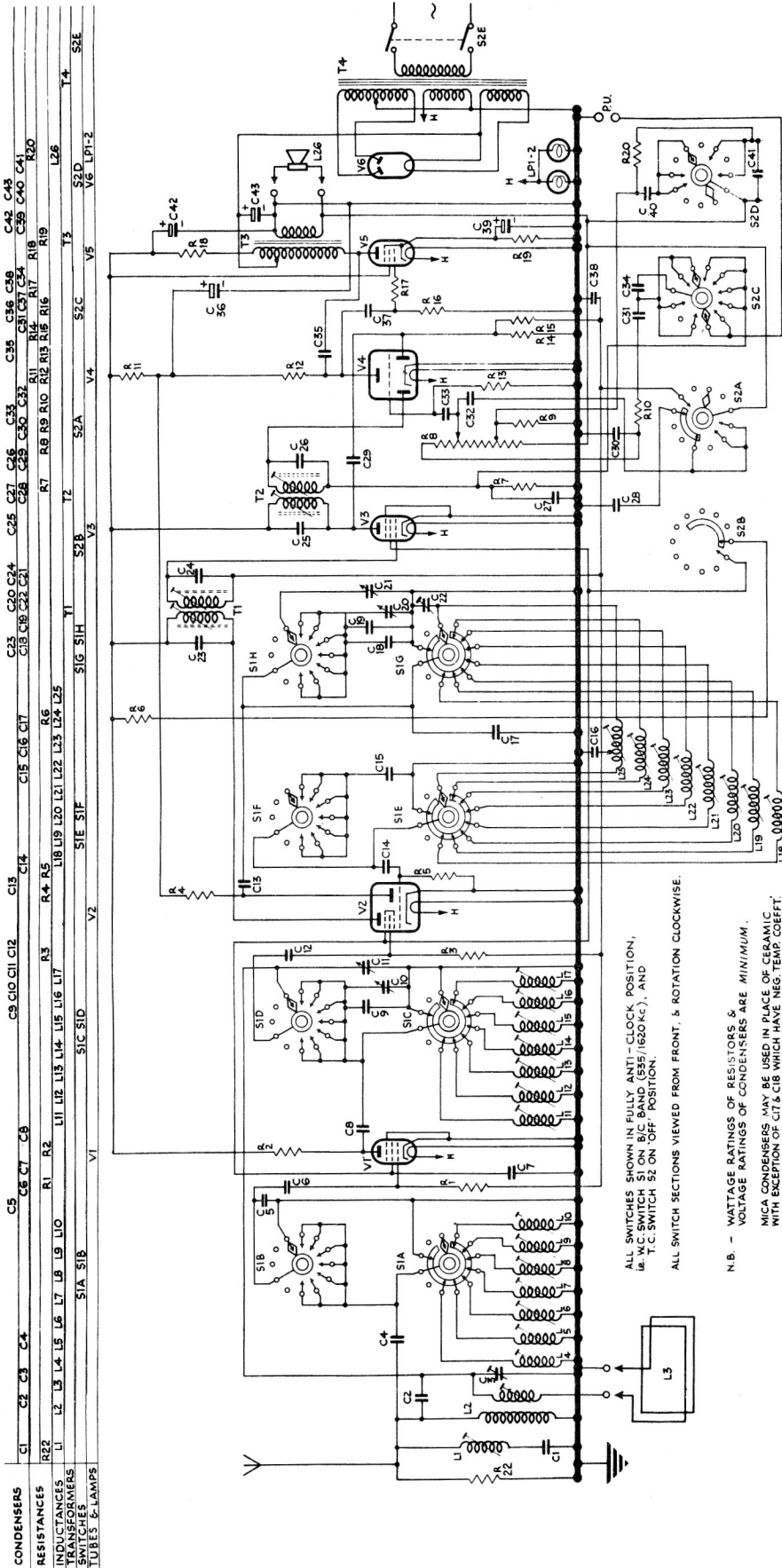




CODE LIST FOR RECEIVER 39H.C.

COMPONENT	CONDENSERS	RESISTORS	INDUCTANCES	TRANSFORMERS	REF. NO.	REF. NO.	REF. NO.	REF. NO.	REF. NO.
C1	85pF MICA	R1	470 K Ω 1/4 W	L1	1.5 M Ω 1/4 W	T1	1K. I.F. TRANSFORMER	770354	
C2	5pF CERAMIC	R2	15 K Ω 1/4 W	L2	1.5 M Ω 1/4 W	T2	2nd. " "	770354	
C3	50pF TRIMMER	R3	470 K Ω 1/4 W	L3	1.5 M Ω 1/4 W	T3	OUTPUT TRANSFORMER	770074	
C4	50pF TRIMMER	R4	470 K Ω 1/4 W	L4	1.5 M Ω 1/4 W	T4	POWER	770356	
C5	27pF MICA	R5	470 K Ω 1/4 W	L5	1.5 M Ω 1/4 W				
C6	100pF CERAMIC	R6	15 K Ω 1/4 W	L6	1.5 M Ω 1/4 W				
C7	100pF CERAMIC	R7	470 K Ω 1/4 W	L7	1.5 M Ω 1/4 W				
C8	100pF CERAMIC	R8	1.5 M Ω 1/4 W	L8	1.5 M Ω 1/4 W				
C9	100pF CERAMIC	R9	1.5 M Ω 1/4 W	L9	1.5 M Ω 1/4 W				
C10	100pF CERAMIC	R10	1.5 M Ω 1/4 W	L10	1.5 M Ω 1/4 W				
C11	100pF CERAMIC	R11	1.5 M Ω 1/4 W	L11	1.5 M Ω 1/4 W				
C12	100pF CERAMIC	R12	1.5 M Ω 1/4 W	L12	1.5 M Ω 1/4 W				
C13	100pF CERAMIC	R13	1.5 M Ω 1/4 W	L13	1.5 M Ω 1/4 W				
C14	100pF CERAMIC	R14	1.5 M Ω 1/4 W	L14	1.5 M Ω 1/4 W				
C15	100pF CERAMIC	R15	1.5 M Ω 1/4 W	L15	1.5 M Ω 1/4 W				
C16	100pF CERAMIC	R16	1.5 M Ω 1/4 W	L16	1.5 M Ω 1/4 W				
C17	100pF CERAMIC	R17	1.5 M Ω 1/4 W	L17	1.5 M Ω 1/4 W				
C18	100pF CERAMIC	R18	1.5 M Ω 1/4 W	L18	1.5 M Ω 1/4 W				
C19	100pF CERAMIC	R19	1.5 M Ω 1/4 W	L19	1.5 M Ω 1/4 W				
C20	100pF CERAMIC	R20	1.5 M Ω 1/4 W	L20	1.5 M Ω 1/4 W				
C21	100pF CERAMIC	R21	1.5 M Ω 1/4 W	L21	1.5 M Ω 1/4 W				
C22	100pF CERAMIC	R22	1.5 M Ω 1/4 W	L22	1.5 M Ω 1/4 W				
C23	100pF CERAMIC	R23	1.5 M Ω 1/4 W	L23	1.5 M Ω 1/4 W				
C24	100pF CERAMIC								
C25	100pF CERAMIC								
C26	100pF CERAMIC								
C27	100pF CERAMIC								
C28	100pF CERAMIC								
C29	100pF CERAMIC								
C30	100pF CERAMIC								
C31	100pF CERAMIC								
C32	100pF CERAMIC								
C33	100pF CERAMIC								
C34	100pF CERAMIC								
C35	100pF CERAMIC								
C36	100pF CERAMIC								
C37	100pF CERAMIC								
C38	100pF CERAMIC								
C39	100pF CERAMIC								
C40	100pF CERAMIC								
C41	100pF CERAMIC								
C42	100pF CERAMIC								
C43	100pF CERAMIC								
C44	100pF CERAMIC								
C45	100pF CERAMIC								
C46	100pF CERAMIC								
C47	100pF CERAMIC								
C48	100pF CERAMIC								
C49	100pF CERAMIC								
C50	100pF CERAMIC								

CIRCUIT ANALYSIS

TUBE	TYPE	EA				OSC.			
		VOLTS D.C.	MA D.C.	IS VOLTS D.C.	LA VOLTS D.C.	EA VOLTS D.C.	MA VOLTS D.C.	IK VOLTS D.C.	MA VOLTS D.C.
V1	R.F. Amplifier	6SK7	75	7.5	80	3.8	-	-	11.3
V2	Freq. Changer	6X8	215	2.75	80	2.7	90	3.65	-
V3	I.F. Amplifier	6SK7	215	9.6	80	2.4	-	-	12.0
V4	Det. A.V.C. & A.F. Amp.	6SQ7	60	0.35	-	-	-	-	0.35
V5	Output Pentode	6V6	245	41	215	2.4	-	-	43.5
V6	Rectifier	5Y3	540	volts A.C.	Anode to Anode.	-	-	-	10.5

NOTE:- Measurements taken with 500 OHMS per volt meter. Set on B/C Band, Gang Condenser fully meshed, no signal input. Volume Control at minimum.

TRIMMING PROCEDURE

NOTE:- Calibration of bandspread ranges (13,16,19,25,31,41 and 49 metre bands) should be checked against stations of known frequency. Normal signal generators are not calibrated sufficiently accurately for this purpose.

APPLY SIGNAL AS BELOW	TUNE RECEIVER TO	TOP OF POINTER CARRIAGE TO	ADJUST IN ORDER FOR MAXIMUM OUTPUT (EXCEPT WHERE STATED)
1. 455 KC/S between chassis and control grid of V2 via 0.1 μ F Condenser.	Low Frequency end of B/C band, Gang fully meshed and pointer lined up with spots at end of tracks.	100	Iron dust cores of T2 and T1.
2. 455KC/S between Aerial and Ground leads via. Dummy Antenna.	As (1)	100	Iron Dust Core of L1 for Minimum Output.
3. As (2) but 550KC/S.	B/C Band 550KC/S.	94.5	Iron Dust Cores of L25 and L2.
4. As (2) but 1500KC/S.	B/C Band 1500KC/S.	6.5	Trimmers C22 & C3.
5. Repeat 3 and 4 until calibration and tracking are correct.			
6. As (2) but 6.1Mc/s.	49M. Band 6.1Mc/s.	44.5	Aluminum Cores of L24 and L17. Iron Dust Core of L10.
7. As (2) but 7.2Mc/s.	41M. Band 7.2Mc/s.	44.5	Aluminum Cores of L23 and L16. Iron Dust Core of L9.
8. As (2) but 9.6Mc/s.	31M. Band 9.6Mc/s.	44.5	Aluminum cores of L22 and L15. Iron Dust Core of L8.
9. As (2) but 11.8Mc/s.	25M. Band 11.8Mc/s.	44.5	Aluminum cores of L21 and L14. Iron Dust Core of L7.
10. As (2) but 15.3Mc/s.	19M. Band 15.3Mc/s.	44.5	Aluminum Core of L20. Iron Dust cores of L13 and L6.
11. As (2) but 17.8Mc/s.	16M. Band 17.8Mc/s.	44.5	Aluminum Core of L19. Iron Dust Cores of L12 and L5.
12. As (2) but 21.6Mc/s.	13M. Band 21.6Mc/s.	44.5	Iron Dust Cores of L18 and L11 and L4.

To Remove Coil Units

Remove the two screws at front of chassis holding click plate and spindle in position and withdraw carefully.

Warning Great care must be taken to ensure that the small motors on either side of the switch wafers are not forced out of position.

Osc. and R. F. Unit

- Unsolder four leads at Gang Condenser, two leads connecting Osc. section to V2, one lead connecting R.F. section to aerial section, one lead connecting R.F. section to tag plate and one lead connecting R.F. section to pin 8 of V1.
- Unsolder ground connections at top of chassis and Gang Condenser.
- Remove the two screws on chassis top holding unit, and lift out

Aerial Unit

- Unsolder one lead connecting Aerial section to Frame socket, one lead connection Aerial section to Tag plate, one lead connecting aerial section to R.F. section.
- Unsolder ground connection on top of chassis.
- Remove two screws holding unit to chassis and lift out.

Notes

- The Pye Quick Release permits the removal of chassis without turning the cabinet over. See Fig. 1.
- The Special Flywheel Tuning needs no maintenance.
- A 100 division Trimming Scale see Fig. 1 is printed on the back of the Scale Reflector Plate for use when trimming the receiver outside the cabinet. The top of the Pointer Carriage serves as an index for the Scale. When no accurate frequency standard is available the receiver should be calibrated against a reliable broadcasting station operating at a frequency close to that specified in the trimming instructions.
- External Speaker 2-4 OHMS impedance.
- Dial Lamps 6.5V., 0.3 Amp. M. E. S.

fitting a new tuning scale

- Remove Chassis.
- Place Scale Plate in cabinet aperture and screw the clips lightly in position.
- Place chassis in position in the cabinet.
- Adjust Scale Plate until waveband indication discs lines up with shutter apertures.
- Remove chassis and screw Scale Plate Clips firmly in position.
- Fit chassis in cabinet.
- Adjust Gang Condenser to maximum position and line up the pointer until the black line on the pointer co-incides with the top edge of the scale openings.

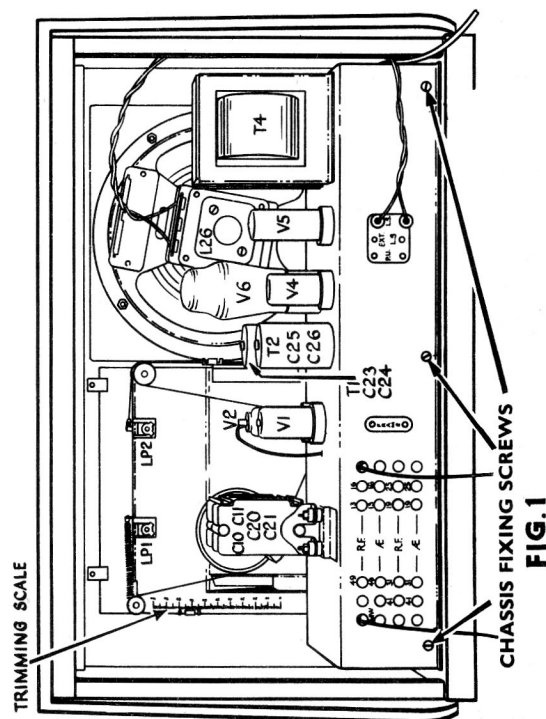
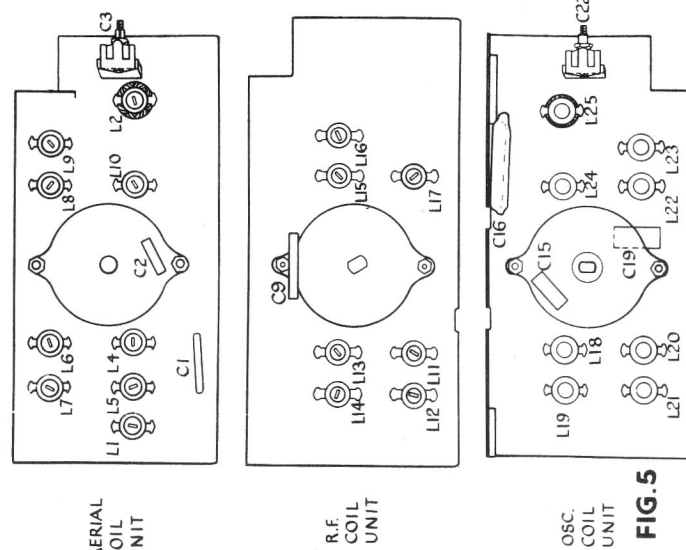
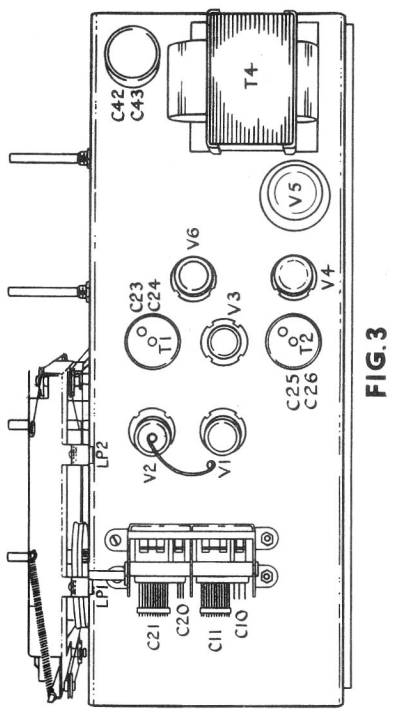


FIG. 1



- TO REMOVE CHASSIS**
1. UNPLUG FRAME CONNECTORS AND REMOVE BACK OF CABINET
 2. LOOSEN SET SCREWS AND PULL OFF KNOBS.
 3. PULL OUT LOUDSPEAKER PLUGS.
 4. REMOVE THE THREE CHASSIS FIXING SCREWS.
 5. WITHDRAW CHASSIS APPROXIMATELY TWO INCHES, TIP UP AND LIFT OUT.

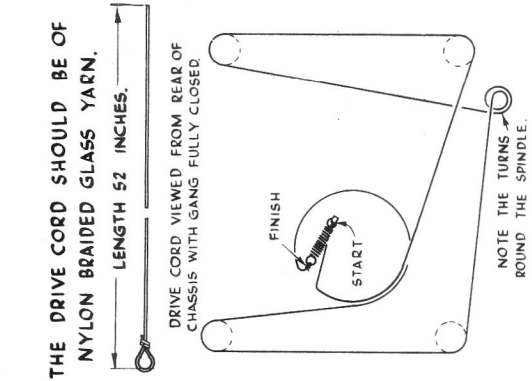
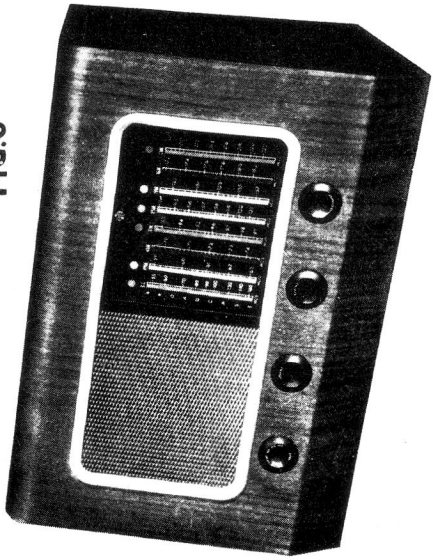


NOTE
THESE UNITS ARE
MOUNTED ON A
SINGLE PLATE
AND SUPPLIED
AS ONE UNIT

TUBE BASE CONNECTIONS

	1	2	3	4	5	6	7	8	Top Cap
V1	S	H	G3	G1	K	G2	H	P	—
V2	S	H	PH	G2 G4	GT G1	PT	H	K	G3
V3	S	H	G3	G1	K	G2	H	P	—
V4	S	G	K	D2	D1	P	H	H	—
V5	—	H	P	G2	G1	—	H	K	—
V6	—	F	—	P2	—	P2	—	F	—

FIG. 6



TO FIT A NEW DRIVE CORD FIRST SET GANG IN FULLY CLOSED POSITION. 1-4 MAX. CAPACITY. ATTACH THE LOOPED END OF CORD TO LUG ON DRIVE DRUM, THREAD CORD ROUND PULLEYS AND SPINDLE AS SHOWN IN DIAGRAM. TIGHTEN CORD AND TIE CORD TO SPRING SO THAT SPRING WILL BE IN TENSION WHEN ASSEMBLED.

THE SHUTTER TRACE SHOULD BE OF 7/42 S.W.G. STRANDED HIGH GRADE TINNED STEEL WIRE.

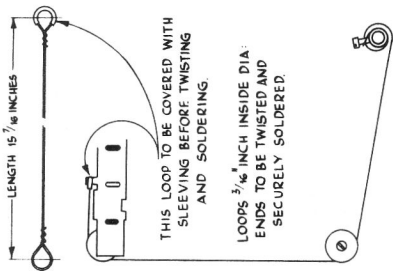


DIAGRAM SHOWS SWITCH AND SHUTTER IN 49 M. POSITION.

FIG. 2

