

ALIGNMENT PROCEDURE

| SIGNAL GENERATOR | | | RECEIVER | | | |
|------------------|---|-----------|--------------|------------------|-----------|---|
| Operation Steps | Output Connections to receiver * | Frequency | Range Switch | Tuning Capacitor | See Notes | Adjust in stated order for Maximum Output |
| 1 | To 6SK7GT Control Grid (4) Through .05 mfd. Capacitor | 455 kc | Pos. 1 | Min. | | 2nd I.F. Trimmers C26 - C27 |
| 2 | To Stator C46 Through .05 mfd. Capacitor | 455 kc | Pos. 1 | Min. | A | 1st I.F. Trimmers C72 - C71 |
| 3 | To Antenna Contact Through 200 mmfd. Capacitor | 570 kc | Pos. 1 | 570 kc | | Broadcast Padder C57 BC-RF Coil T10 |
| 4 | To Antenna Contact Through 200 mmfd. Capacitor | 1600 kc | Pos. 1 | 1600 kc | B | BC-Osc. Trimmer C55 BC-RF Trimmer C39 BC-Ant. Trimmer C3 |
| 5 | To Antenna Contact Through 400 ohms Resistance | 7.0 Mc | Pos. 2 | 7.0 Mc | C | SW Osc. Trimmer C60 SW RF Trimmer C40 SW Ant. Trimmer C4 |
| 6 | To Antenna Contact Through 400 ohms Resistance | 2.9 Mc | Pos. 2 | 2.9 Mc | D | SW Osc. Coil T13 |
| 7 | To Antenna Contact Through 400 ohms Resistance | 21.5 Mc | Pos. 5 | 21.5 Mc | C | BS Osc. Trimmer C69 |
| 8 | To Antenna Contact Through 400 ohms Resistance | 15.2 Mc | Pos. 5 | 15.2 Mc | D | BS Osc. Coil T14 |
| 9 | To Antenna Contact Through 400 ohms Resistance | 21.5 Mc | Pos. 5 | 21.5 Mc | E | BS RF Trimmer C32 BS Ant. Trimmer C20 |
| 10 | To Antenna Contact Through 400 ohms Resistance | 15.2 Mc | Pos. 5 | 15.2 Mc | F | BS RF Coil T11 BS Ant. Coil T6 |
| 11 | To Antenna Contact Through 400 ohms Resistance | 11.6 Mc | Pos. 4 | 11.6 Mc | C | BS Osc. Trimmer C67 BS RF Trimmer C34 BS Ant. Trimmer C19 |
| 12 | To Antenna Contact Through 400 ohms Resistance | 9.6 Mc | Pos. 3 | 9.6 Mc | C | BS Osc. Trimmer C65 BS RF Trimmer C36 BS Ant. Trimmer C17 |

* The Dummy Antenna must be located at the Antenna Post of the Receiver for Short Wave Alignment.

ALIGNMENT NOTES

Note "A"—After step 2 has been completed, leave signal generator lead on C46 and slowly readjust C26 and C27 for optimum results.

Note "B"—After operation 4 has been completed, return to 570 kc and repeat operation 3, then repeat operation 4.

Note "C"—Unscrew Oscillator Trimmer Capacitor to minimum capacity (counter clockwise). Turn adjustment clockwise until first

output peak is obtained. Make adjustments using this peak. Note "D"—Check high frequency end of dial for accuracy, adjust Oscillator Trimmer slightly if necessary.

Note "E"—Rock Tuning Capacitor while adjusting antenna trimmer for maximum output.

Note "F"—Repeat operation 9.

PUSH BUTTON TUNING

Of the eight push buttons on the receiver, the first six are used for pre-selection tuning, the seventh to set the receiver for phonograph operation, while the eighth is used to disengage the phonograph push button when radio reception is desired.

Radio stations operating between 540 kc and 1050 kc may be set up on push buttons 1 to 4, while stations operating between 950 and 1750 kc may be set up on push buttons 5 and 6. Before attempting to change or set up push buttons, only strong stations should be selected, that is stations that show a good deflection on the tuning indicator.

The push button components may be adjusted with the receiver in the cabinet by simply removing the push button cover plate. The push button adjustments are located directly above the button concerned. The thin threaded brass spindles of the top row adjust the coils T15 to T20, while the flat screws of the bottom row adjust the trimmer capacitors C75 to C80.

When selecting stations for the push buttons the usual practice is to set up the selected station having the lowest frequency on button No. 1, the second lowest on button No. 2, etc.

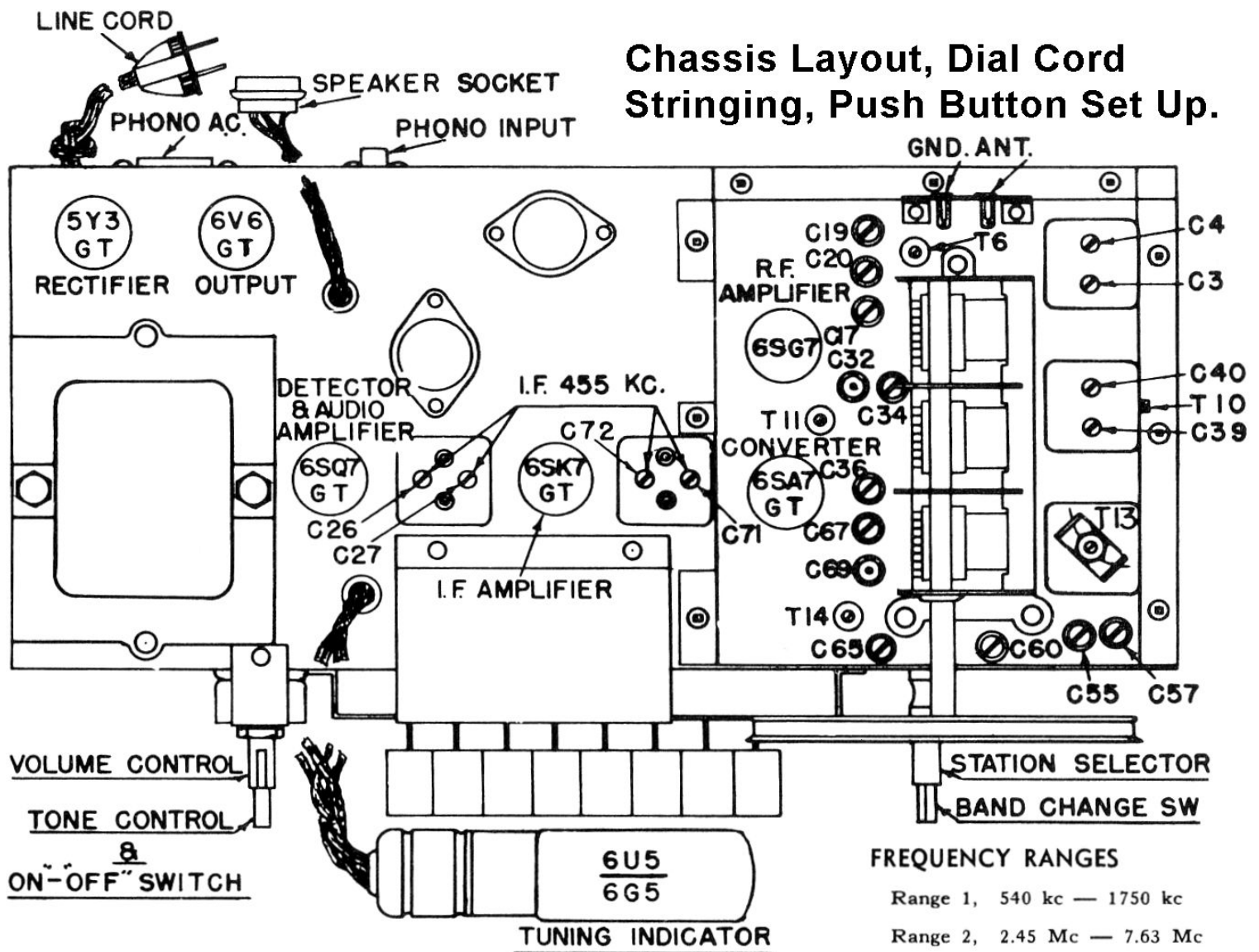
SEE PAGE 3 FOR PUSH BUTTON SET UP PROCEDURE PICTURE

1. Turn the Range Switch to Range 1 as indicated by the band indicator on the dial.
2. Tune in the desired station with the tuning control knob.
3. Turn the Range Switch to the P.B. position.
4. Depress the desired push button.
5. With a small screw driver, locate the same station as above by screwing in or out the spindle of the coil associated with the desired push button until the tuning indicator shows minimum shadow.
6. Adjust the screw of the trimmer capacitor which is also associated with the desired push button until the tuning indicator again shows minimum shadow.
7. Repeat operation 5 and 6, endeavouring to close the tuning indicator even farther.

Rotate the Range Switch to Range 1 occasionally during the operation to make certain the correct station is being tuned in. The above operation is repeated for each push button.

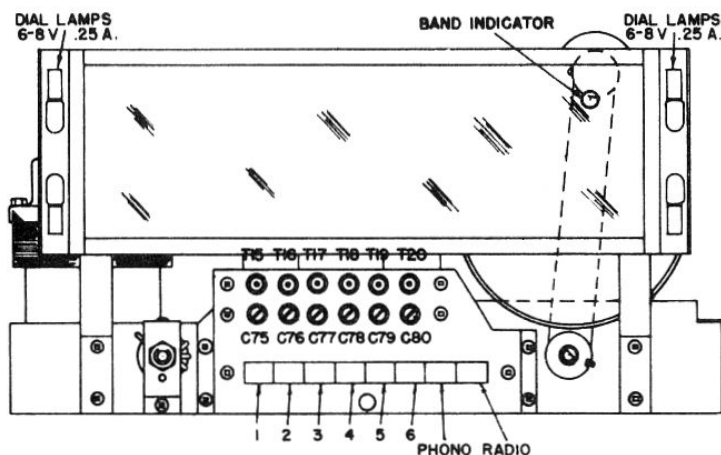
8. If the push buttons do not operate freely, read the note under "Removal of chassis".

Chassis Layout, Dial Cord Stringing, Push Button Set Up.



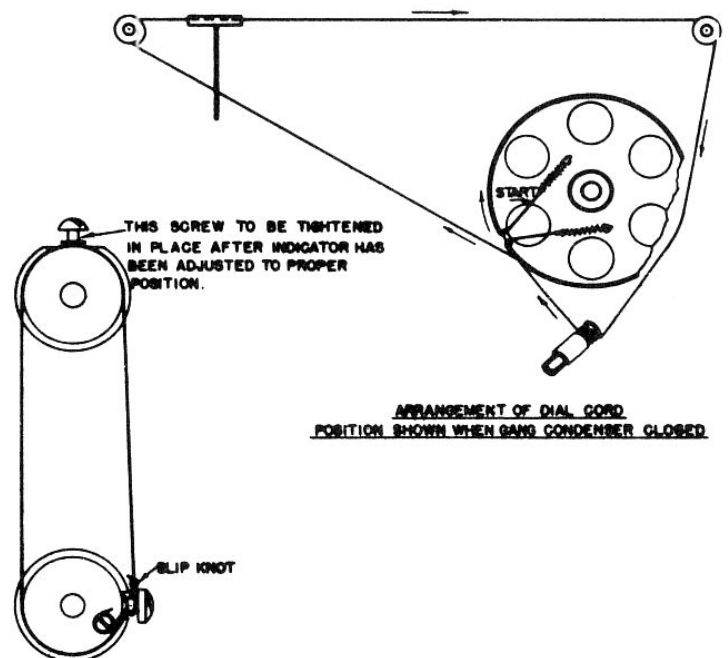
FREQUENCY RANGES

- Range 1, 540 kc — 1750 kc
- Range 2, 2.45 Mc — 7.63 Mc
- Range 3, 9.21 Mc — 10.42 Mc
- Range 4, 10.35 Mc — 12.16 Mc
- Range 5, 14.6 Mc — 22.1 Mc



PUSH BUTTON SET UP PROCEDURE

Rogers Majestic R336



METHOD OF SECURING INDICATOR CORD