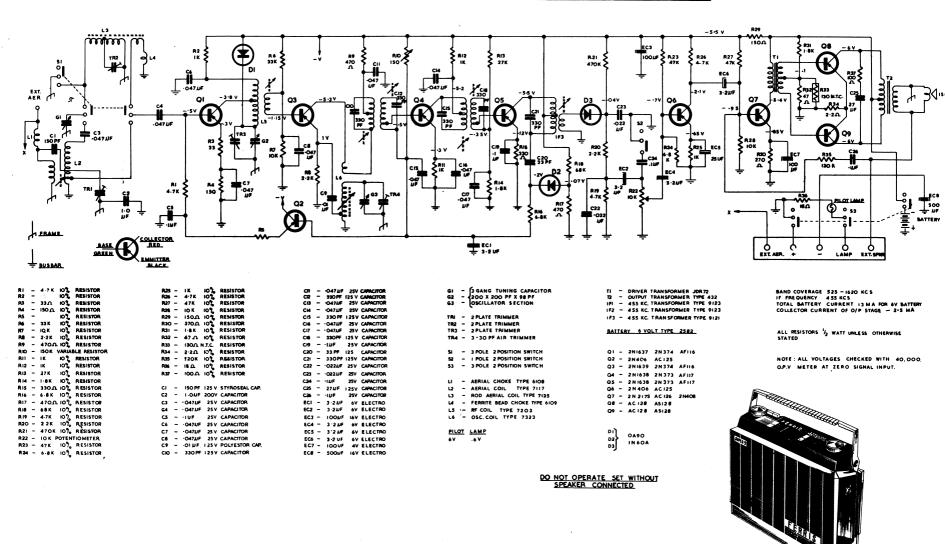
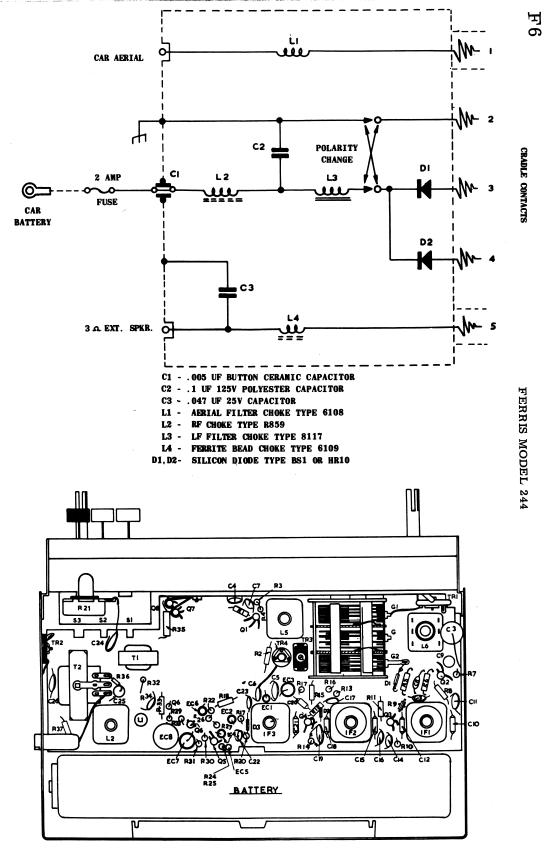
FERRIS ALL TRANSISTOR PORTABLE CAR RADIO MODEL 244-6VOLT

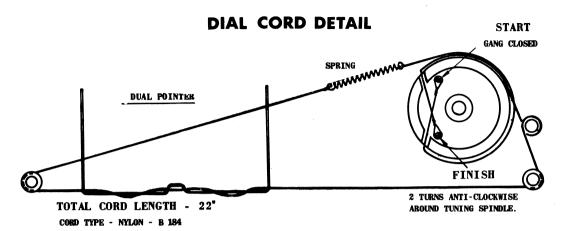




FRONT VIEW OF SET SHOWING COMPONENT LAYOUT

DIAL CORD REPLACEMENT

Remove canopy and dial scale as previously described. Re-string dial in accordance with diagram. The dual pointer is attached by wrapping the dial cord around the crank formation along its carriage section. Calibration is achieved by sliding the pointer along the cord as required. The pointer can be lifted to vertical position to allow easy assembly of the dial backplate and scale. Ensure that the felt friction wads are correctly positioned against the edge of the dial scale before replacing the canopy.



ALIGNMENT PROCEDURE

For all alignment operations, connect the low side of the signal generator to the frame or case and keep the generator output as low as possible to avoid AVC action. Set volume control at maximum.

NB - Use proper alignment tool for making adjustments. Cores are easily broken by improper handling, making replacement of entire coil or transformer necessary. Set aerial switch to "DOWN" position.

| STEP | Connect Sig. Gen. to | Tune Sig. Gen. to | Tune Receiver to | Adj. for Max. Output | |
|------|---|-------------------|-------------------|------------------------|--|
| 1 | | | | IF3 (one slug) | |
| 2 | Base of 2N1639 via | 455 KC/8 | Gang fully open | IF2 (all slugs on | |
| 9 | .1 uf capacitor | | | IF 1 outer peaks.) | |
| 4 | Repeat above adjustments until no further increase can be obtained. | | | | |
| 5 | Aerial socket via dummy aerial | 525 KC/S | Gang fully closed | Osc. coil slug (L6) | |
| 6 | • | 1620 KC/S | Gang fully open. | Osc.Trimmer TR4 | |
| 7 | Repeat steps 5 and 6 until band limits are 525 - 1620 KC/S | | | | |
| 8 | Aerial socket via | | | * RF Coil slug (L5) | |
| | dummy aerial | 550 KC/f1 | 550 KC/S | * Aer. coil slug (L2) | |
| 9 | | 1400 KC/fl | 1400 KC/S | TR1 and TR3 | |

Rock gang back and forth through signal. Repeat steps 8 and 9 till no further increase can be obtained. Check sensitivity at 1400, 900 and 550 KC/fl.

Ferrite Rod Alignment:
Place set in normal operating position with canopy removed.
Set aerial switch to "UP" position.

| STEP | Connect Sig. Gen. to | Tune Sig. Gen. to | Tune Receiver to | Adj. for Max. Output |
|------|---|-------------------|------------------|--|
| 1 | To aerial socket via dummy aerial (see note) | 1400 KC/S | 1400 KC/S | TR2 |
| 2 | • | 550 KC/S | 550 KC/S | Slide windings (L3) along Ferrite slab. |

Repeat 1 and 2 until no further increase can be obtained.

NOTE — When aligning the rod aerial as described, the output from the signal generator needs to be in the order of 0.3 — 1 mv, as it is only loosely coupled to the set via the capacity of the aerial