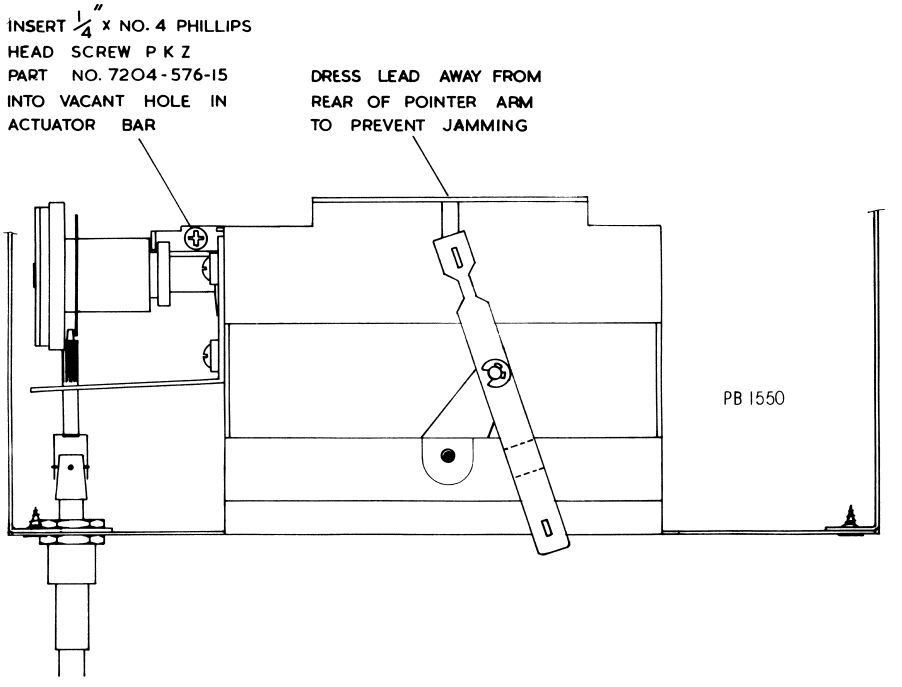
.1uF CERAMIC CAPACITOR CIRCUIT NO.32

To simplify the component layout this capacitor is being wired on to the underside of the circuit board.

ACTUATOR BAR - PUSH BUTTON TUNER

To prevent the actuator bar from moving out of position, a screw is now being inserted into the bar at the end nearest the clutch.

A $\frac{1}{4}$" x No.4 self tapping screw is to be inserted into the vacant hole at this location during service.



REMOVAL OF TUNER UNIT

The front plate of the tuner unit forms the front section of the receiver frame.

Do not attempt to remove this plate from the body of the tuner.

To remove tuner from receiver, disconnect leads and detach accessories mounted to front plate then remove the four screws (two each end) which fasten plate to receiver metal wrapper.

REMOVAL OF DIAL LAMPS

The dial lamps are accessible when the escutcheon is removed from the front panel.

A piece of firm rubber or plastic tubing may be enlisted to assist in this and the fitting operation.

AIR CHIEF

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SERVICE DATA

PN — C14N and MN — C14N

INSTABILITY AT HIGH AND LOW TEMPERATURES

The following modifications are to be applied to receivers which are unstable when operating at very low or extremely high temperatures.

CIRCUIT NO.23 .047uF capacitor is to be changed to .1uF 25 Volt ceramic disc.
Part No.4008-004-04.

CIRCUIT NO.25 .047uF capacitor is to be changed to .1uF 25 Volt ceramic disc.
Part No.4008-004-04.

CIRCUIT NO.54 220 Kohm resistor is to be removed from the top of the board and soldered with short pigtails to pins 1 and 3 of the IF.Transformer No.85.

A 22 K.ohm carbon 1/2 Watt resistor Part No.4022-026-02 is to be wired directly across pins 1 and 3 of circuit No.86 the 3rd I.F. transformer.

Receivers between Serial No.G6901 and G22722 are to have

CIRCUIT NO.57 100 ohm resistor changed to 180 ohm carbon 1/2 Watt.
Part No.4022-025-02

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STANDARDIZATION OF ALIGNMENT FREQUENCY

In future 1200 Kc/s will be used as the alignment point for the R.F. and Aerial circuits.

If the receiver logging is satisfactory, the signal circuits are to aligned as detailed.

1. Connect I.F. attenuator to test pins "B" and "C" (resistor to pin "C")

2. Connect generator through 65pF. dummy aerial to receiver aerial socket.

3. Set generator to 1200 Kc/s

4. Tune receiver to generator frequency. Adjust RF and Aerial trimmer capacitors for maximum output.

I.F. AMPLIFIER STAGE GAIN

To provide more uniform gain the 22Kohm resistor wired across Circuit No.86, the 3rd I.F. transformer pins 1 and 3 is now deleted.

This resistor is detailed in Service Data C14N-2. When instability is encounted due to excessive gain a 47Kohm resistor may be wired in this position.

47Kohm Carbon 10% .5Watt Part No.4022-051-03

HUM MODULATION OF I.F. AMPLIFIER

To prevent hum modulation the filter choke circuit No.88 is now being mounted parallel and adjacent to the speaker transformer. Two holes which are vacant in early production receiver lids may be utilized.

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INSTABILITY AT HIGH AND LOW TEMPERATURES

Reference to this condition was detailed in Service Data Sheet C14N-2.

Further investigations have disclosed that the main cause of the instability is the variation in capacitance of Circuit No.25. 1 .047uF capacitor.

Wiring a .1uF 25V Disc Ceramic capacitor Part No.4008-004-04 in parallel with the existing capacitor will normally cure the problem without changing other components.

CORRECTION TO PART NUMBER OF THE NO.3. I.F. TRANSFORMER

The part number of the 3rd I.F. transformer is incorrectly shown as 4044-032-03

The correct information is

86. No.3. I.F. Transformer - (Yellow/violet) 4044-032-04