

To be read in conjunction with Model 770 Service Data.

PHILIPS CAR RADIO

MODELS 770B 770FB

The following sections on Model 770 data do not apply to Model 770B:—

“Parts List”

“Chassis Cover Removal and Replacement”

“Mounting OC16”

“Circuit Diagram”

Model 770B varies mechanically from Models 770A in as much as the receiver is supplied less knobs, dial scale, escutcheon and associated parts. Kits to suit specific makes of cars are available and contain the necessary material for installation of the receiver. For spare part information, see “Miscellaneous Components.”

For electrical information, refer circuit diagram and “Parts List” overleaf.

Model 770FB is designed specifically for Holden FB vehicles. Mechanically it is similar to the 770B, but is supplied complete with installation pack. For spare part information, see “Miscellaneous Components.”

Electrically, the FB version differs only in the deletion of polarity and voltage change-over facilities; the receiver being wired for 12 volt negative earthing system.

CHASSIS COVER REMOVAL AND REPLACEMENT.

To gain access to the chassis, remove each of the case cover screws, consisting of:—

Nineteen (19) $\frac{1}{8}$ " W x $\frac{1}{4}$ " countersunk head.
Recover all countersunk washers.

Initially ease cover from front of receiver and raise upward and backward. Replacement is a reversal of

removal procedure. Check all screws for tightness, prior to receiver installations.

POWER AMPLIFIER (TR7).

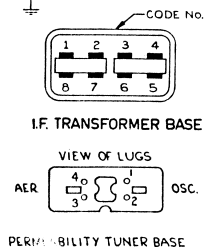
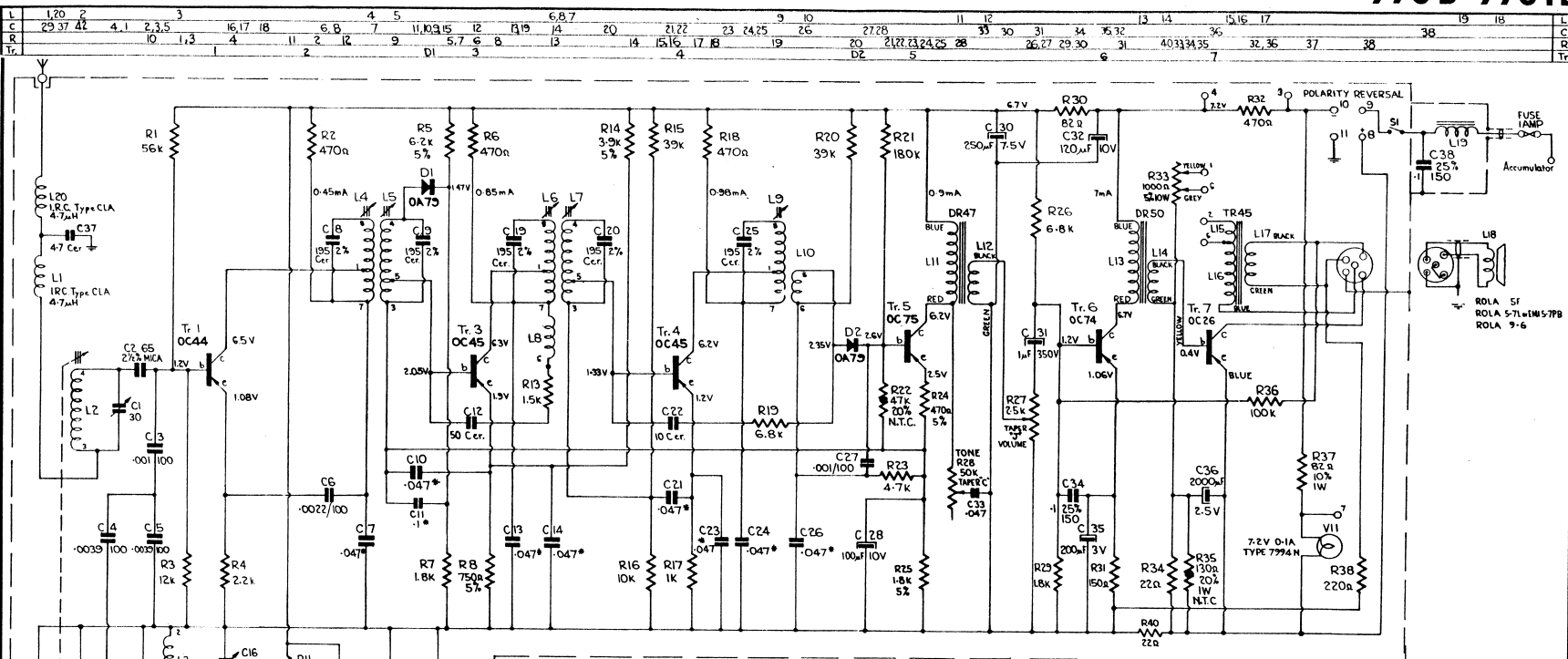
Transistor type OC26 is utilised as TR7.

A new type aerial socket has been incorporated and in addition, a socket for mounting transistor OC26 is now utilised. For details refer “Miscellaneous Components”.



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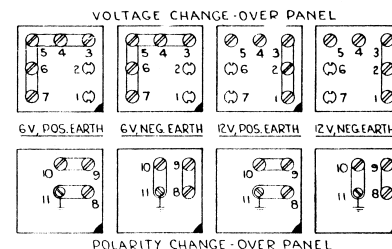
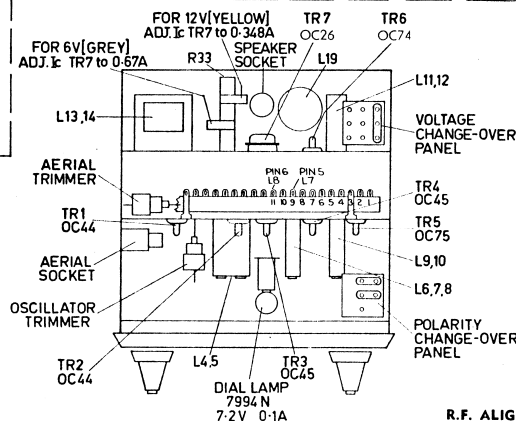
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CAPACITOR VALUES:
 WHOLE Nos. — pF.
 DECIMALS — μ F.
 SECOND FIGURE — D.C.V.W.
 TOLERANCES $\pm 10\%$ UNLESS
 OTHERWISE SHOWN.
 * — HI-K CERAMIC .047 μ F
 + 80% — 25% 33 V.W.
RESISTORS.
 1W 10% UNLESS OTHERWISE
 SHOWN.
 VOLTAGES MEASURED WITH
 A VACUUM TUBE VOLT-
 METER. THE CURRENT OF
 TR7 IS SET TO 0.348A. AT
 12V SUPPLY AND 0.67A. AT
 6V SUPPLY BY MEANS OF
 R33.

I.F. ALIGNMENT.

Set volume control at maximum, tone control to treble position, and tuner inductance to minimum (anti-clockwise). Apply a modulated 455 kc/s signal through R.F. dummy (see below) to TR1 base. Detune L4, L5, and L9 by screwing signals out one turn. Peak L6 and L7. Connect a 330 Ω resistor in series with a 0.1 μ F capacitor between pin 5 of L7 and chassis (refer chassis layout diagram). Peak L9. Transfer the resistor/condenser combination to pin 6 of L8 and chassis (refer chassis layout diagram). Peak L5 and L4. Do not re-adjust the iron cores.



Note: Voltage and Polarity Change over Panels are deleted for 770 FB. Receiver is connected for 12 volt negative earth system.

ALIGNMENT PROCEDURE.

Alignment requires removal of case cover. Access to I.F.T. cores is provided through a cut out in the front plate, when dial scale and associated parts are removed.

NOTE: It is not necessary to remove the "B" sub-chassis for alignment. Suitable I.F.T. terminating points on the main lug strip, are shown on the chassis layout diagram.

R.F. ALIGNMENT.

Simulate external aerial loading by connecting a capacitive network comprising 60pF across receiver aerial socket and 15pF in series with generator lead. Set volume control to maximum, tone control to treble position, aerial and oscillator trimmers to approximately centre of their adjustment range. With tuner in closed position (clockwise), adjust cursor to the stop mark (small white line bottom R.H. side of dial scale). Set generator to 530 kc/s and peak oscillator trimmer C16. Adjust generator to 1500 kc/s and tune receiver to this frequency. Peak aerial trimmer C1. Repeat checks at 530 kc/s and 1500 kc/s. Re-peak aerial trimmer with receiver installed and operating with telescopic aerial connected as described in "Installation Instructions."

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