



**INSTALLATION AND
OPERATING INSTRUCTIONS FOR**



AIR CHIEF "5"

SINGLE UNIT SUPER-HETERODYNE

CAR RADIO

MODEL 'G.L.L.'



NATIONAL AUTOMOTIVE SERVICE COMPANY

DIVISION OF GENERAL MOTORS-HOLDENS LIMITED



ANTENNA INSTALLATION

4 Section Telescopic Whip Type Antenna

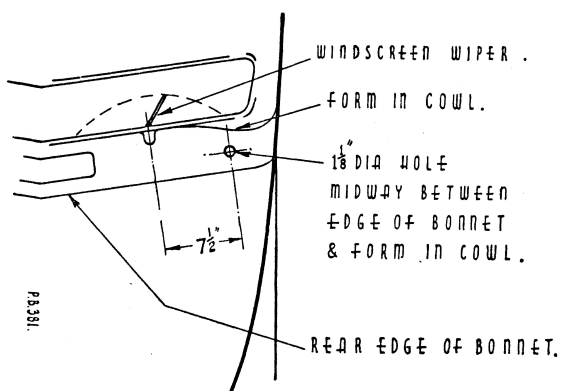
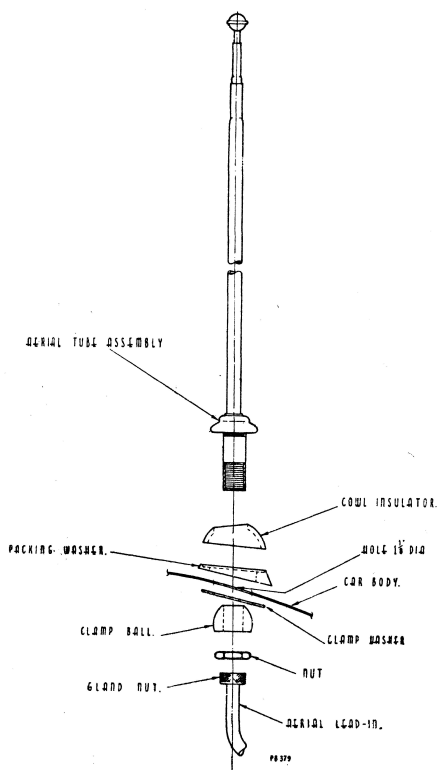
Part No. 7405005

The antenna is designed for mounting on the top corner of the cowl on the passenger side. The height above the cowl when fully extended is 49 in., and when fully retracted 15 in. The antenna is supplied in a separate carton fully assembled with antenna lead-in cable, mounting nuts, etc.

Antenna Installation:

1. On the top corner of the cowl on the passenger side mark a spot midway between the edge of the bonnet and the form in the cowl and $7\frac{1}{2}$ in. from the windscreen wiper mount boss—refer diagram.
2. Centre punch the mark and drill a $1\frac{1}{8}$ in. dia. hole. Clean off all paint, grease and burrs for approx. $\frac{1}{2}$ in. on the underside of the hole with a sharp-edged tool or emery paper to ensure proper electrical earthing of the clamp washer.
3. Remove the lead-in, lock nut, clamp ball and clamp washer from the antenna base. Insert the antenna base into the top of the hole. Hold the antenna vertical and turn the formed rubber washer on the antenna base so that it fits the form of the cowl.
4. On the underside of the cowl reassemble the clamp washer, clamp ball and lock nut to the antenna base. Tighten the lock nut securely, making sure the antenna remains vertical and the formed rubber washer follows the form of the cowl.
5. Reassemble the lead-in cable to the base of the antenna, making sure the knurled gland nut on the lead-in is securely tightened.

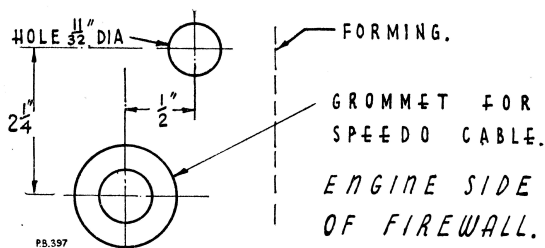
ANTENNA INSTALLATION



RECEIVER INSTALLATION

Receiver Rear Mount Hole.-

Drill from the engine side, as shown on the diagram (right), a $1\frac{1}{32}$ in. hole in the firewall.



Preliminary Test Before Installation:

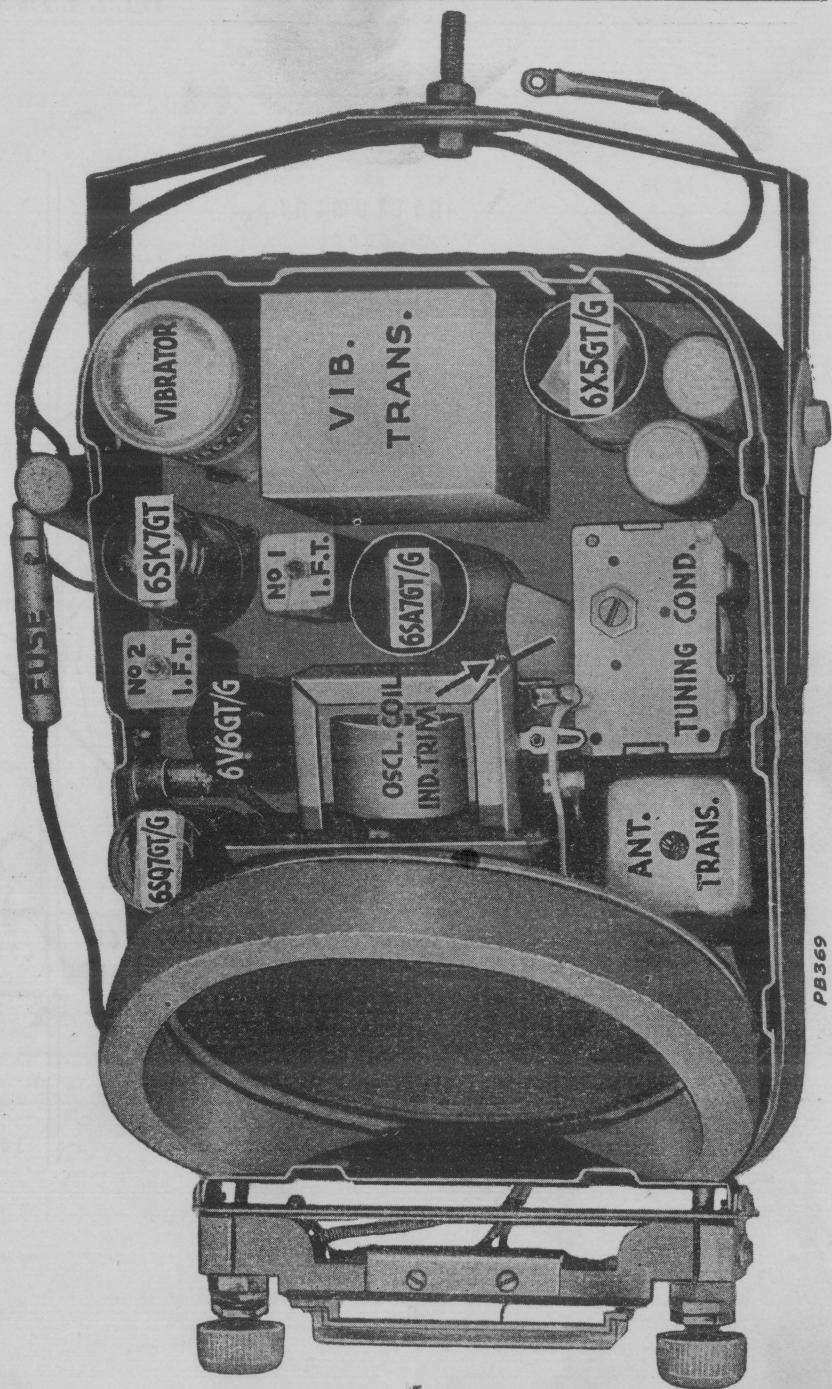
Remove the domed metal section of the receiver case and make sure that all the tubes and the vibrator are pushed well down into their sockets. Refit domed section to receiver case.

Connect the receiver to a 6 volt accumulator, both being placed on the footboard of the car, and carry out a preliminary test for normal operation. The antenna lead-in may be temporarily connected during this test.

Receiver Installation:

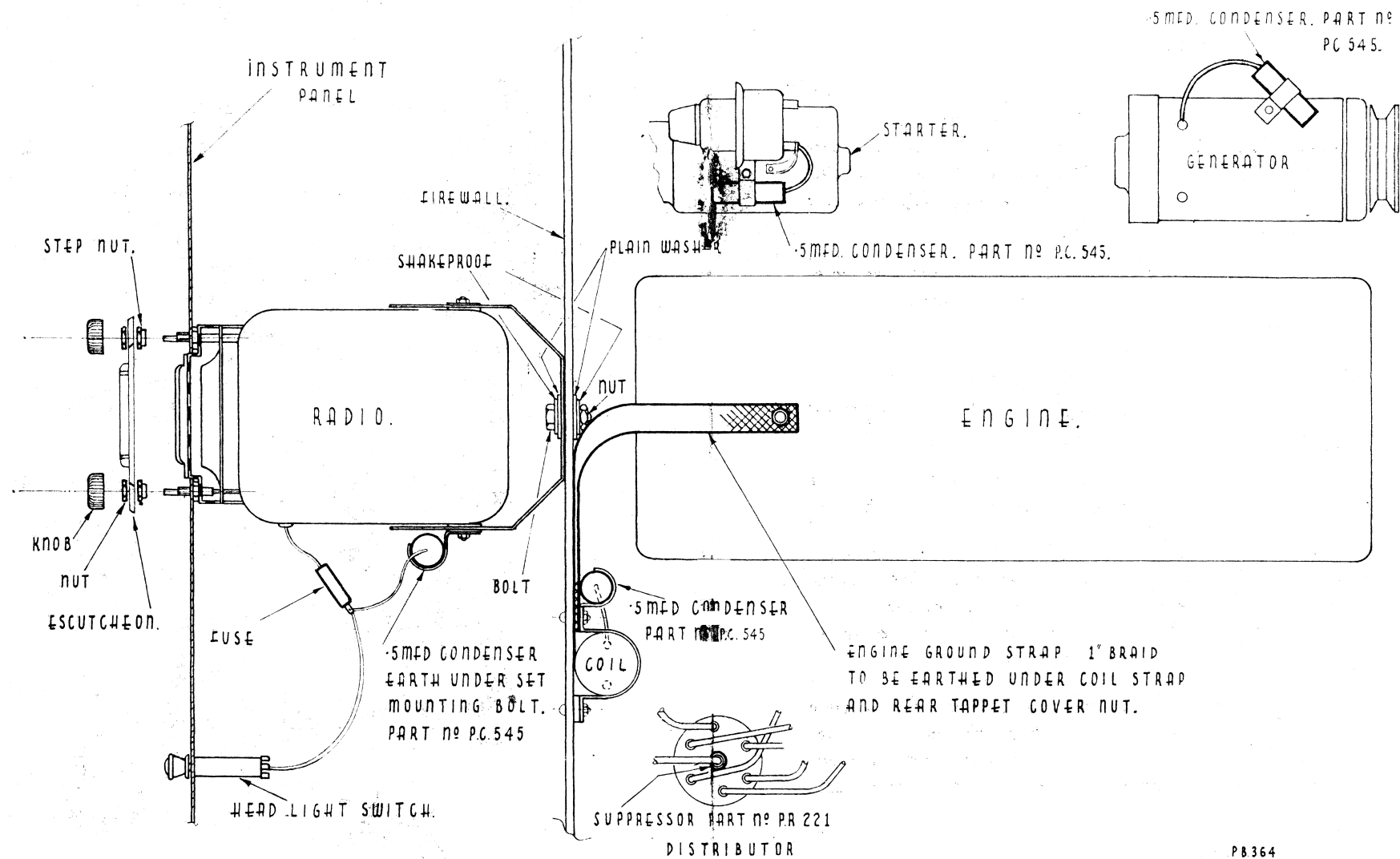
1. Remove the bezel and plastic cover strip from the instrument panel of the car. The plastic strip is not required again.
2. Remove the knobs, plain nuts and step nuts from the receiver control shafts. Slide the mount bracket off the rear of the receiver, leaving the nuts and washers on the mount bolts.
3. Open the cowl vent on the car. Push the receiver up into position and replace step nuts (finger tight) on shafts protruding through the instrument panel.
4. Slide the mount bracket back on to the receiver mount bolts, the large flat washers being on the outside of the bracket. Press the bracket back to the firewall.
6. The bolt in the receiver mount bracket is next pressed through the mounting hole drilled in the firewall and tightened up. Refer diagram on pages 6-7. When tightening up give the rear end of the receiver a lift so that the receiver case does not rest on the back edge of the instrument panel.
7. Tighten up the step nuts, replace the chrome bezel and fix in place with the flat nuts; then replace knobs.
8. Tighten up the nuts on the receiver side mount bolts.
9. Bring the antenna lead-in up over the glove box and over set case and connect it to the receiver lead-in socket; make sure knurled gland nut is securely tight.
10. Connect the receiver accumulator lead on to the centre terminal of the headlight switch. Refer diagram, pages 6-7.
11. The .5MFD condenser attached to the accumulator lead is mounted under one of the nuts on the receiver side mount bolts.

RECEIVER INSTALLATION



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RECEIVER INSTALLATION

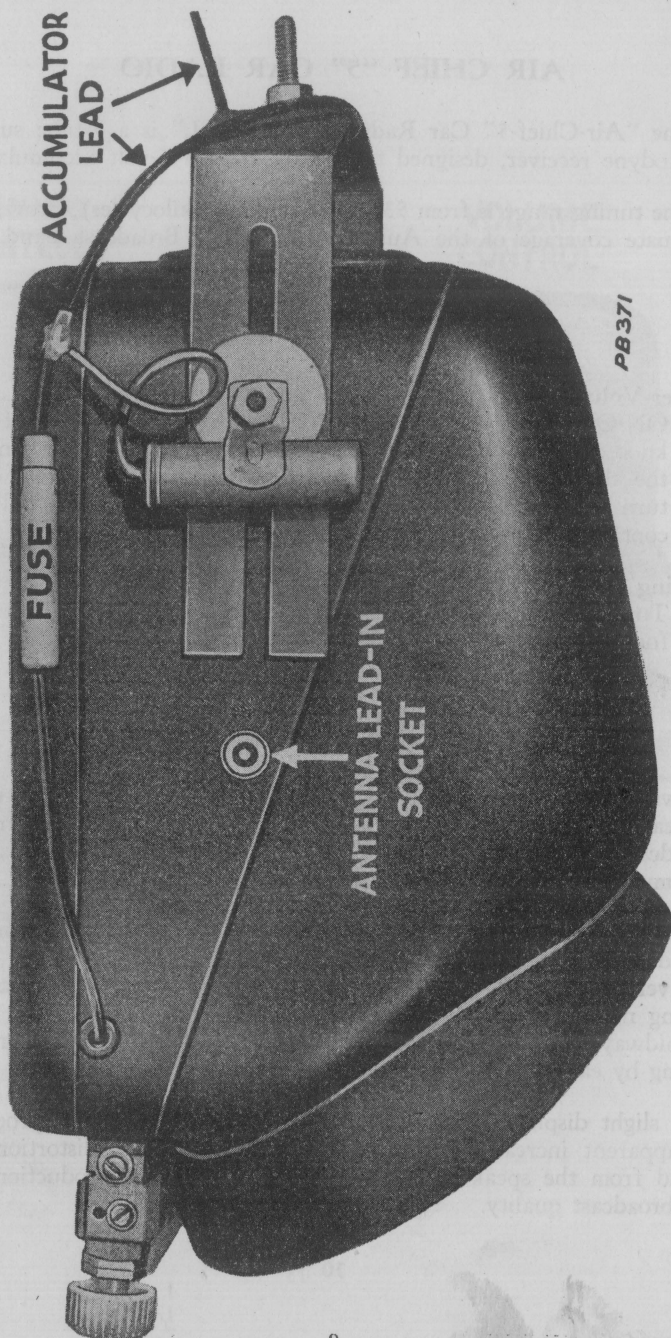


RECEIVER INSTALLATION

INTERFERENCE ELIMINATION

1. No spark plug suppressors are required.
2. Distributor Suppressor: Remove the high tension lead from the centre of the distributor cap. Into the distributor cap fit a suppressor No. PR 314. Slip a suppressor rubber cap part No. 14/140 on the HT lead, then fit the HT lead into the outer end of the suppressor and slip rubber cap over the connection.
3. Generator Condenser: Instal a metal clad by-pass condenser part No. PC545 on the generator—refer dia. page 6. Connect the lead from the condenser to the armature terminal, not the field terminal; make the lead as short as possible. The other side of the condenser is internally connected to the condenser case, which forms the other contact to the car where the condenser is mounted on the generator.
4. Instal a metal clad by-pass condenser part No. PC545 on the starter motor—refer dia. page 6; make the lead as short as possible.
5. Instal a metal clad by-pass condenser part No. PC545 on the battery terminal of the ignition coil; make the lead as short as possible—refer dia. page 6. The condenser is mounted under the nut holding the coil mount strap.
6. Bonding: Bond the engine to the firewall by installing a piece of 1 in. width braid, part No. 2/664, under the rear valve cover nut. The other end of the braid is fastened under the nut used for mounting the by-pass condenser on the ignition coil.
7. Note: The nuts and mounting positions of the by-pass condensers and bonding braid must be entirely free of paint, varnish or grease to ensure a proper electrical contact.

RECEIVER INSTALLATION



OPERATING INSTRUCTIONS

AIR CHIEF "5" CAR RADIO

The "Air-Chief-5" Car Radio, Model "GLL" is a 5-tube super-heterodyne receiver, designed to operate from a 6-volt accumulator.

The tuning range is from 535 to 1610 Kc/s (kilocycles), providing adequate coverage of the Australian Standard Broadcast Band.

MANUAL CONTROLS

Power-Volume Control: The knob on the right is a combination ON-OFF Power Switch and Volume Control. A twist of the knob clockwise turns on the current to the radio and illuminates the dial. Turning it further increases the volume. Always turn the radio OFF when not in use by turning the volume control knob fully anti-clockwise until a "click" is felt.

Tuning Control: The knob on the left is the manual tuning control. Turning this knob moves the pointer along the dial scale for selection of the required station.

OPERATING INSTRUCTIONS

Switch the receiver on and allow a few moments for the tubes to heat up. Turn the volume control to about half full on, tune in the desired station to a point where the background noise is at a minimum and re-adjust volume control to suit.

Undistorted reception will be obtained only when a station is tuned exactly on its broadcasting frequency. As you tune the receiver back and forth over the desired station frequency a distinct hissing noise will be observed on either side. The correct position is midway between these noise positions. This permits correct tuning by ear without taking your eyes off the road.

A slight displacement of the pointer to either side may produce an apparent increase in volume, but will produce a distortion of sound from the speaker, and will not give a true reproduction of the broadcast quality.

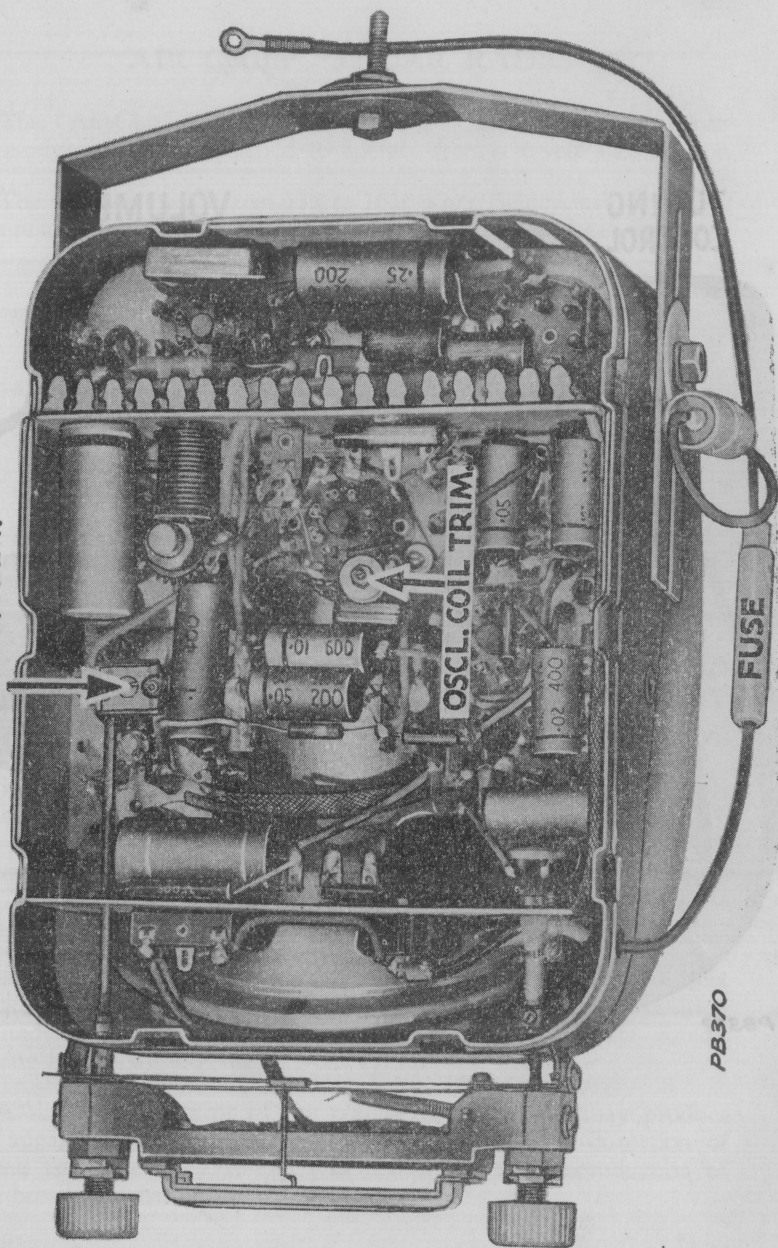
OPERATING INSTRUCTIONS

**TUNING
CONTROL**

**VOLUME
CONTROL**



ANT. TRANS. TRIM.



PB370

AIR-CHIEF "5"

CAR RADIO

WARRANTY AND SERVICE

1. Subject to the conditions mentioned hereunder, every new "AIR-CHIEF" Radio Set is covered by our Standard Warranty of 90 days from date of purchase.

2. "Should any defect in material or workmanship develop in any part within the period of this Warranty, said part will be repaired or replaced without cost to you for labor or material at our nearest authorised Air-Chief Car Radio Service Station."

3. It is understood that the Warranty is null and void on any Radio where parts not made or sold by us are used in any replacement.

NATIONAL AUTOMOTIVE SERVICE COMPANY

DIVISION OF GENERAL MOTORS - HOLDEN'S LIMITED

AUTHORISED AIR CHIEF CAR RADIO INSTALLATION AND SERVICE STATIONS

VICTORIA :

Radio Corporation Pty. Ltd.
Nolan Street, South Melbourne.
Tel. : MXY220

NEW SOUTH WALES :

Radio Corporation Pty. Ltd.
73 William Street, Sydney.
Tel. : MA 9361

QUEENSLAND :

Radio Corporation Pty. Ltd.
Little Edward Street, Brisbane.
Tel. : B 6658

SOUTH AUSTRALIA :

Radio Corporation Pty. Ltd.
55 Flinders Street, Adelaide.
Tel. : Cent. 2769

WESTERN AUSTRALIA :

Carlyle & Co., 1032 Hay Street, Perth.
Tel. : B 9371

TASMANIA :

Les. R. Lucke Distributing Co., 161 Liverpool Street, Hobart
Tel. : 6584
