

SMITHS Radiomobile

installation instructions

VEHICLE: AUSTIN HEALEY 3000
BN 7 & BT 7.

RADIO: * 40T, 41T, 42T, 400T,
401T, 402T & 230R.

- * RADIO: 50T, 51T, 52T, 500T, 501T, 502T. Install Models in the 50T and 500T Series as detailed for the corresponding Model in the 40T or 400T Series.

INTRODUCTION

This instruction covers both left and right hand drive cars. The illustrations show right hand drive.

WARNING: Models 41T, 42T, 401T, 402T.

Before connection to power supply, ensure that "POSITIVE GROUND" POLARITY PLUG is inserted in POLARITY SOCKET.
(Undersurface of 41T, 42T, - Side of 401T, 402T).

DAMAGE TO TRANSISTOR IS INEVITABLE IF POLARITY IS INCORRECT.

The aerial is mounted in the wing on the left hand side of the body on left or right hand drive vehicles.

The control unit is mounted underneath the heater unit at the end of the parcel tray.

The amplifier unit is mounted on the heater ducting alongside the steering column.

The loudspeaker mounting box is secured to the bulkhead underneath the control unit.

AERIAL MOUNTING

1. Temporarily remove forward air cleaner and drill a $\frac{7}{8}$ " dia. hole in the wing on the left hand side of the vehicle to the dimensions given in Fig. 1.
2. Assemble aerial to the wing.
3. Route aerial lead through the bulkhead utilising an existing grommet near to the voltage regulator unit.

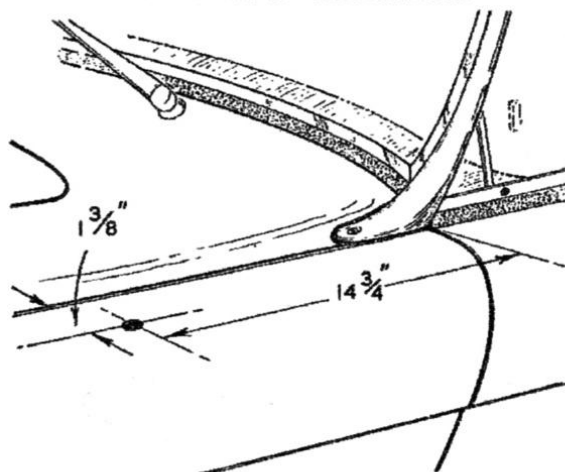


Fig. 1.

AMPLIFIER UNIT MOUNTING

(Not applicable to Models 40T, 41T and 42T)

1. Locate mounting bracket on the vertical face of the heater duct between the steering column and the outside of the car as shown in Fig. 2 for Models 400T, 401T & 402T or Fig. 3 for Model 230R.

NOTE: Left hand drive cars: To reduce to a minimum the obstruction of the fresh air inlet, the bracket must be positioned close to the steering column.

2. Using the bracket as a template, drill four holes (No.29 drill) in duct, as indicated in Fig. 2 or Fig. 3 as applicable.

3. Assemble bracket to the duct using PK screws, washers and spacers provided, inserting spacers between bracket and duct.
4. Mount amplifier unit in bracket and secure with fixings provided.

CONTROL UNIT MOUNTING

1. Assemble angle bracket to control unit as shown in Fig. 4, using screws and washers provided. (Finger tight only).
2. Locate control unit in line with the parcel tray rail underneath the heater unit (with the front of the control unit flush with the front face of the heater unit), and with the angle bracket underneath the end of the parcel tray. See Fig. 4.

3. Using the bracket as a template, drill two 7/32" diameter holes through the parcel tray.
4. Secure bracket to the tray using 10 UNF screws, washers and nuts provided. (Finger tight only).
5. Attach top of strip bracket to attachment lug on the scuttle panel reinforcement member as shown in Fig. 4 inset, using 10 UNF screw, washers and nut provided. (Finger tight only).

NOTE: On heater equipped cars, this bracket must pass down behind the heater air hose connection (left hand drive cars) or behind the heater unit water valve (right hand drive cars).

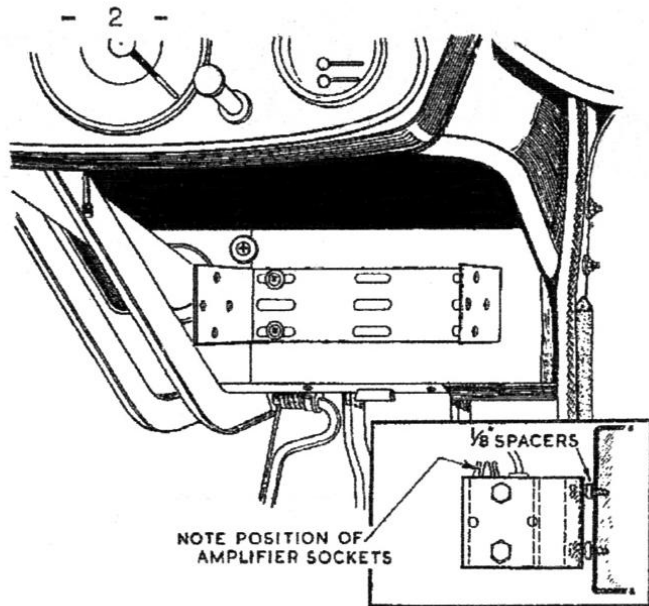


Fig. 2.

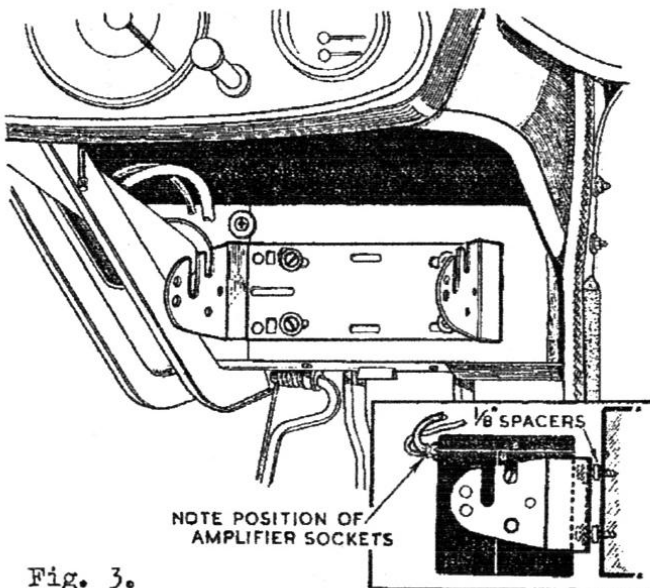


Fig. 3.

6. Secure lower end of the strip bracket to the control unit using 10 UNF screw and washers provided.

NOTE: On heater equipped cars this bracket will attach to the control unit rear fixing point, but where no heater is fitted, the bracket may be attached to the front fixing point.

7. Adjust position of control unit and tighten all fixings.

8. Connect interconnecting cable between control and amplifier units (Models 400T, 401T, 402T & 230R only)
9. Route battery lead through bulkhead and connect to A2 terminal.
10. Connect aerial lead to control unit.
11. (Models 400T, 401T, 402T and 230R only). Assemble screw and washer provided to unused fixing point on the control unit as shown in Fig. 4.

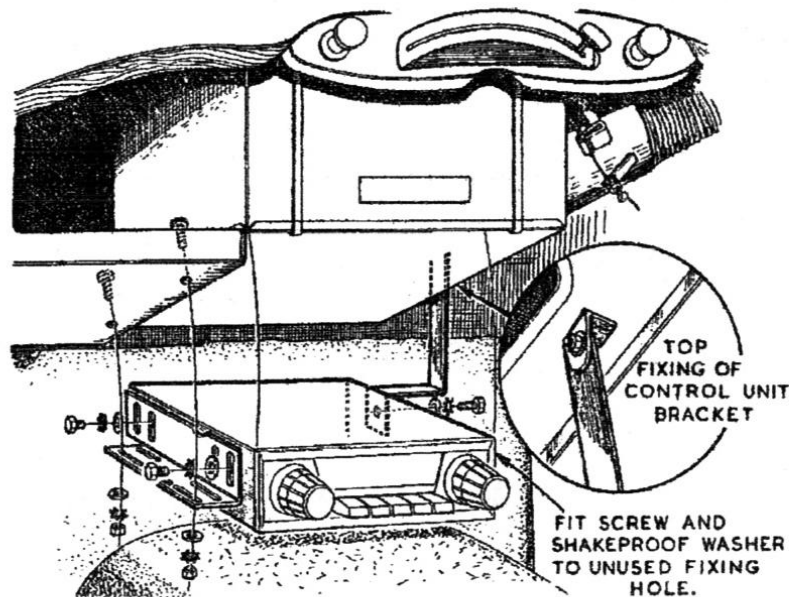


Fig. 4.

LOUDSPEAKER MOUNTING

1. Connect loudspeaker lead to loudspeaker.
2. Assemble loudspeaker, bezel and grille to mounting box as shown in Fig. 5. (inset).
3. Connect loudspeaker lead to amplifier unit (Models 400T, 401T, 402T & 230R) or control unit (Models 40T, 41T, 42T).
4. Locate loudspeaker box centrally underneath the control unit on the bulkhead as shown in Fig. 5.
5. Using the box as a template drill four holes (No.31 drill) through the bulkhead.
6. Secure box to bulkhead using PK screws provided.

AERIAL TRIMMER

Tune receiver to a weak signal on 1200 Kc/s (250 metres approximately) and adjust aerial trimmer for maximum volume.

SUPPRESSION

NOTE: It is important to keep all leads, i.e. capacitor and ignition leads, as short as possible and to scrape to bare metal each point at which an earth connection is made.

A built-in resistor is incorporated in the distributor.

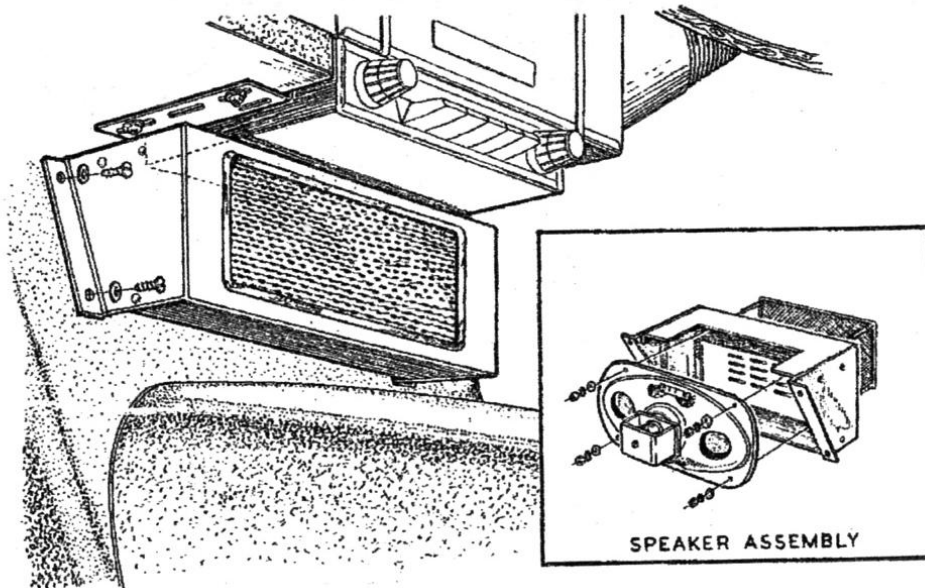


Fig. 5.

All Models.

1. Fit a 1 mfd capacitor ($\frac{1}{4}$ " tag hole) to the dynamo output terminal. Earth to dynamo fixing bolt.
2. Fit a 1 mfd capacitor ($\frac{3}{16}$ " tag hole) to the 'SW' terminal on the coil. Earth to coil mounting bolt.
3. Fit a 1 mfd capacitor ($\frac{3}{16}$ " tag hole) to the petrol pump. Earth to pump mounting bolt.

Additional suppression with Model 230R

4. Fit the plug suppressors provided.

NOTE: On some vehicles, where interference is troublesome, it may be necessary to disconnect from the coil the lead to the master switch. Alternatively this lead may be replaced by a screened lead, the screen of which should be earthed at both ends.