

SMITHS Radiomobile

Installation instructions

VEHICLE: M. G. A. SPORTS & COUPE & TWIN-CAM.

RADIO: 40T, 41T, 42T, 400T, 401T, 402T.

INTRODUCTION

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

NOTE: 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 AMPLIFIER IS INEVITABLE IF POLARITY IS REVERSED.

The Aerial is mounted in the drive side wing.

The Control Unit is mounted behind the aperture provided in the passenger's side of the fascia.

The Amplifier is mounted on the bulkhead behind the loudspeaker location.

The Loudspeaker is mounted behind the aperture provided in the centre of the fascia.

AERIAL MOUNTING

NOTE: Turn front wheel in direction of drive side to give more working space in wheel arch.

1. Remove baffle plate inside drive side wheel arch (six bolts and washers).
2. Remove trim kick panel on drive side. (Five screws and cup washers).
3. Drill a $\frac{7}{8}$ " diameter hole in wing to dimensions given in Fig. 1.
4. Drill a $\frac{7}{8}$ " diameter hole in metal panel to dimensions given in Fig. 1. (inset).
5. Fit aerial in wing.
6. Route lead through $\frac{7}{8}$ " diameter hole to inside of car and fit grommet provided.
7. Replace baffle plate in wheel arch.
8. Replace trim kick panel.
9. Route aerial lead over top of kick panel to passenger's side of car, behind fascia.

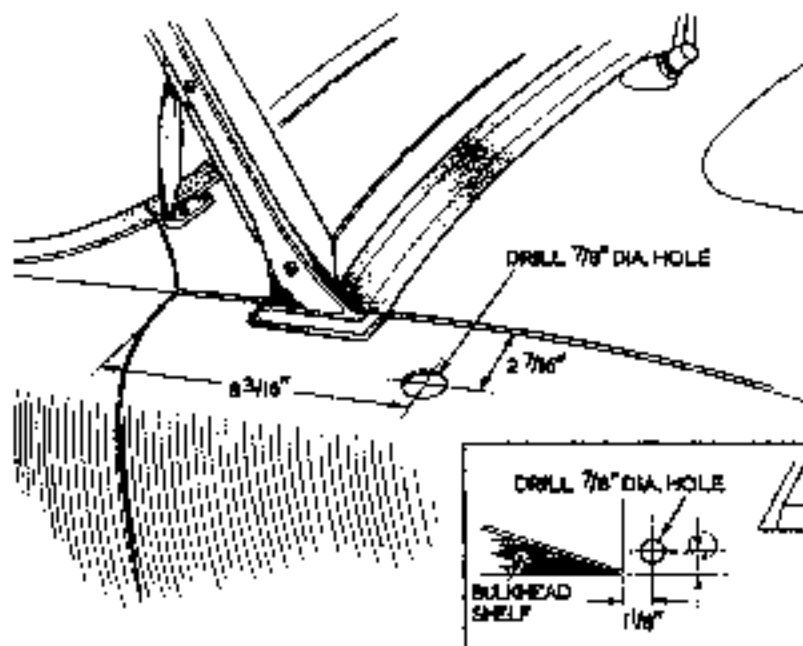


Fig. 1.

AMPLIFIER UNIT MOUNTING.

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

1. Disconnect battery.
2. Remove rubber plugs from the three holes provided in the bulkhead near centre line of car. (The location is illustrated in Fig.2. inset).
3. Secure the amplifier mounting bracket as shown in Fig.2. using the fixings provided.
4. Mount amplifier unit in bracket using the fixings provided as shown in Fig.2.
5. Route supply lead through bulkhead via main harness grommet and connect to 'A2' terminal on control box.

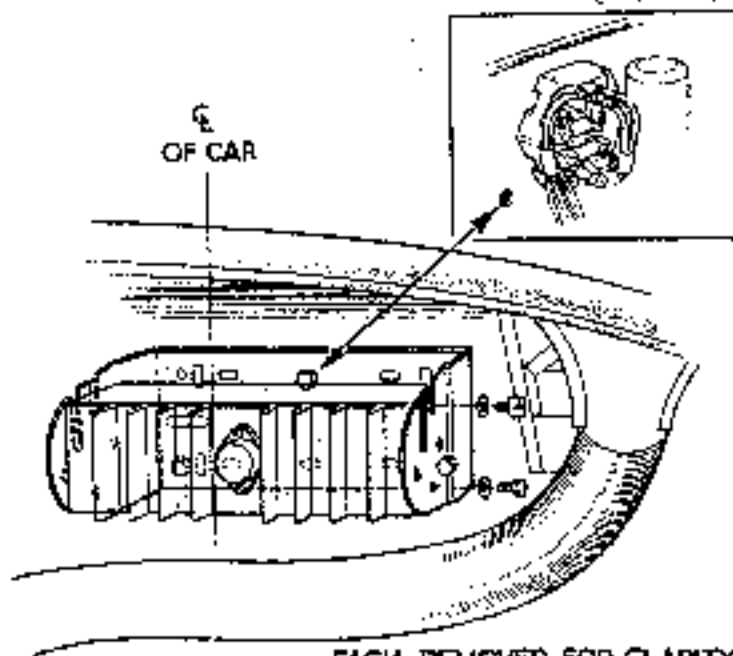


Fig. 2.

LOUDSPEAKER MOUNTING.

1. Release the facia support straps from the facia by removing two screws and washers.

NOTE: When a heater is fitted in this car these screws hold the heater control panel in place - this must be temporarily lowered away from facia.

2. Slacken off the screws holding these straps to the bulkhead.
3. Remove the millboard blanking piece from behind the loudspeaker aperture in facia.
4. Bend millboard loudspeaker box as shown in Fig.3.
5. Secure loudspeaker to this box using the fixings provided.
6. Connect lead to loudspeaker.
7. Locate the loudspeaker assembly behind the aperture in facia.
8. Locate support straps underneath the loudspeaker assembly and secure with fixings provided as shown in Fig. 3 (inset A).

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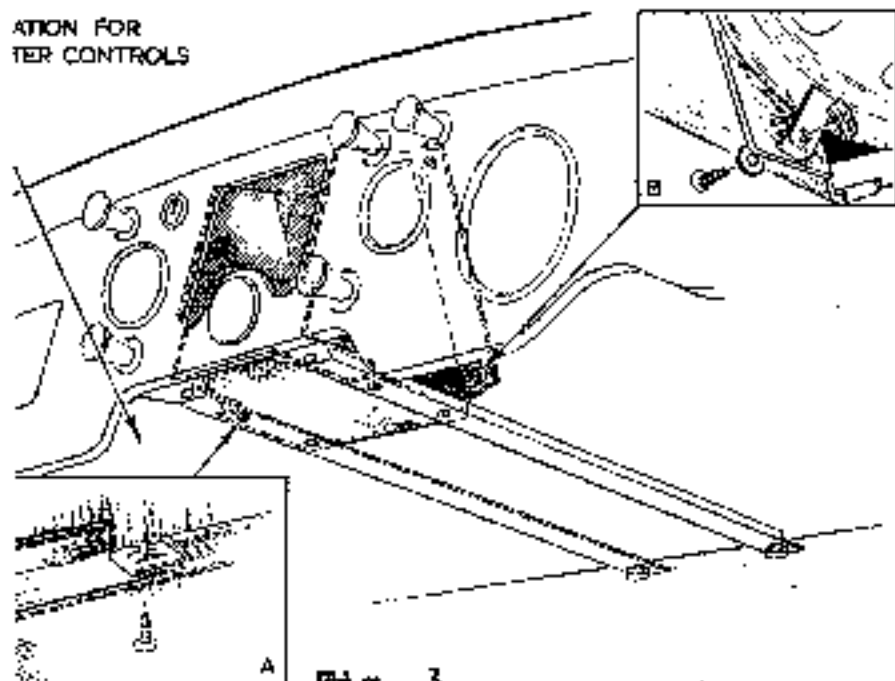


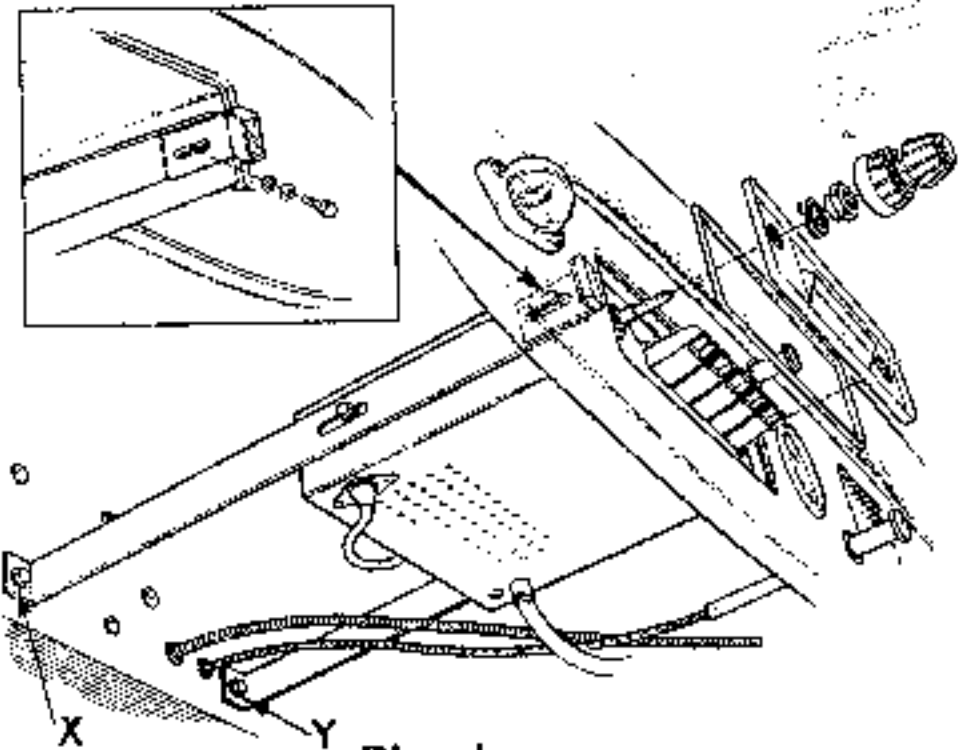
Fig. 3.

IMPORTANT: Ensure that the loudspeaker mounting box is as close as possible to back of facia. Check that loudspeaker grille is secure.

9. Tighten these fixings.
10. Replace screws securing support straps. (Replace heater control panel, where applicable).

CONTROL UNIT MOUNTING.

1. Remove blanking plate and chrome bezel from aperture in facia. (Two spring clips).
2. Retain chrome bezel.
3. Remove knobs and escutcheon from control unit. See Fig. 4.
4. Remove rubber plug in bulkhead adjacent to choke cable.



NOTE: On left-hand drive cars this will be adjacent to starter cable.

Fig. 4.

5. Fit one of the support straps to bulkhead as shown in Fig. 4. using the fixings provided. (See Ref. 'Y' in Fig. 4.).
6. Fit the other support strap to the hole indicated as 'X' in Fig. 4. (Remove rubber plug). A large washer is provided for this hole.

NOTE: It may be necessary to bend these brackets to fit set.

7. Mount control unit in support straps behind facia. Secure rear fixings ($\frac{3}{8}$ " long hex head screws, plain and shakeproof washers).
8. Fit the two pressure pad brackets to front fixings, as shown in Fig. 4 (inset) using two $\frac{1}{2}$ " long hex heads screws, plain and shakeproof washers.
9. Fit chrome bezel behind escutcheon and replace washers and securing nuts. (See Fig. 4).
10. Replace knobs.
11. Ensure that chrome bezel is located in depression in facia.
12. Adjust pressure pad bracket until facia is hard against chrome bezel - tighten front fixings.
13. Tighten rear fixings.
14. Models 400T, 401T, 402T. Connect interconnecting cable between amplifier unit and control unit.
15. Models 40T, 41T, 42T. Route supply lead through bulkhead via main harness grommet and connect to 'A2' terminal on control box.
16. Re-connect battery.
17. Connect loudspeaker lead to amplifier unit (models 400T, 401T, and 402T) or to control unit (models 40T, 41T, 42T).
18. Connect aerial lead to control unit.
19. Switch on set and tune to a weak signal on 1200 Kc/s (250 metres) approximately, and adjust aerial trimmer for maximum volume.

SUPPRESSION

It is important to keep all wiring, i.e. ignition and capacitor leads, as short as possible and to scrape to bare metal each point at which an earth connection is made. The distributor incorporates a built-in resistor in the main H.T. lead and plug suppressors are fitted in each plug lead.

All Models.

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

Additional suppression with Models 400T, 401T, 402T.

3. Fit a 1 mfd capacitor (no tag) to 'A' terminal on control box. Earth to nearest point.