

Radiomobile

STEREO CASSETTE
TAPE PLAYER
WITH MW/LW RADIO

MODEL **310 CSR**

OWNERS GUIDE

General Information

Model 310CSR/UO is a push button car radio providing full coverage of the medium and long wavebands combined with a stereo cassette player. You will find the push button selection system simple to set and safe to operate. Once a button has been set, in accordance with the instructions, your chosen station can be selected instantly without taking your eyes off the road ahead. If you prefer music of your own choosing, insert a cassette in the slot just above the push buttons and enjoy the programme in the exciting realism of full stereo. If you read and follow the information given in these instructions, we are sure you will obtain maximum and lasting pleasure from your installation.

Power Supply : 12 volts D.C. Negative Earth.	Speaker Impedance : 1.75-3.5 ohms per channel
Fuse Value : 3 amperes	Power Output : 5 watts per channel
Tuning Ranges : M.W. 520-1620 kHz.	Dimensions : Width 179 mm
L.W. 145-285 kHz.	Depth 127 mm
	Height 53 mm

WARNING:— Connection to incorrect supply polarity may damage the unit.

Controls & Operation

(See Figure 1)

Volume Control and On/Off Switch

To switch the radio on turn the control 1 clockwise. Further rotation will increase the volume. Turning the control fully anticlockwise will reduce the volume and switch the radio off.

Waveband and Station Selection

Switch the radio on and adjust the volume. Press either the long wave or one of the medium wave push buttons to select the desired waveband. Each of the five push buttons can be set to select any station on its waveband for future listening. To do this, tune in the desired station accurately, pull out the appropriate button and then depress it firmly to lock the mechanism. Proceed similarly with the remaining buttons, remembering that a button allocated to a particular waveband will only select a station on that waveband.

Tone Control

The combined bass and treble control is operated by the knob 3. The full brilliance and bass response will be heard when the control is turned to its centre position (located when a slight click is felt). Rotating the control from this position clockwise will reduce the bass, and anticlockwise the treble, response.

To Play a Cassette

Switch the radio on and adjust the volume control. Insert the cassette into the slot 4 with the exposed tape towards the unit and the label of the desired programme on top of the cassette. Push the cassette firmly until the mechanism drops into the operating position. The radio will automatically switch off and the cassette start to play. The cassette will be ejected automatically at the end of the tape and the radio will resume playing.

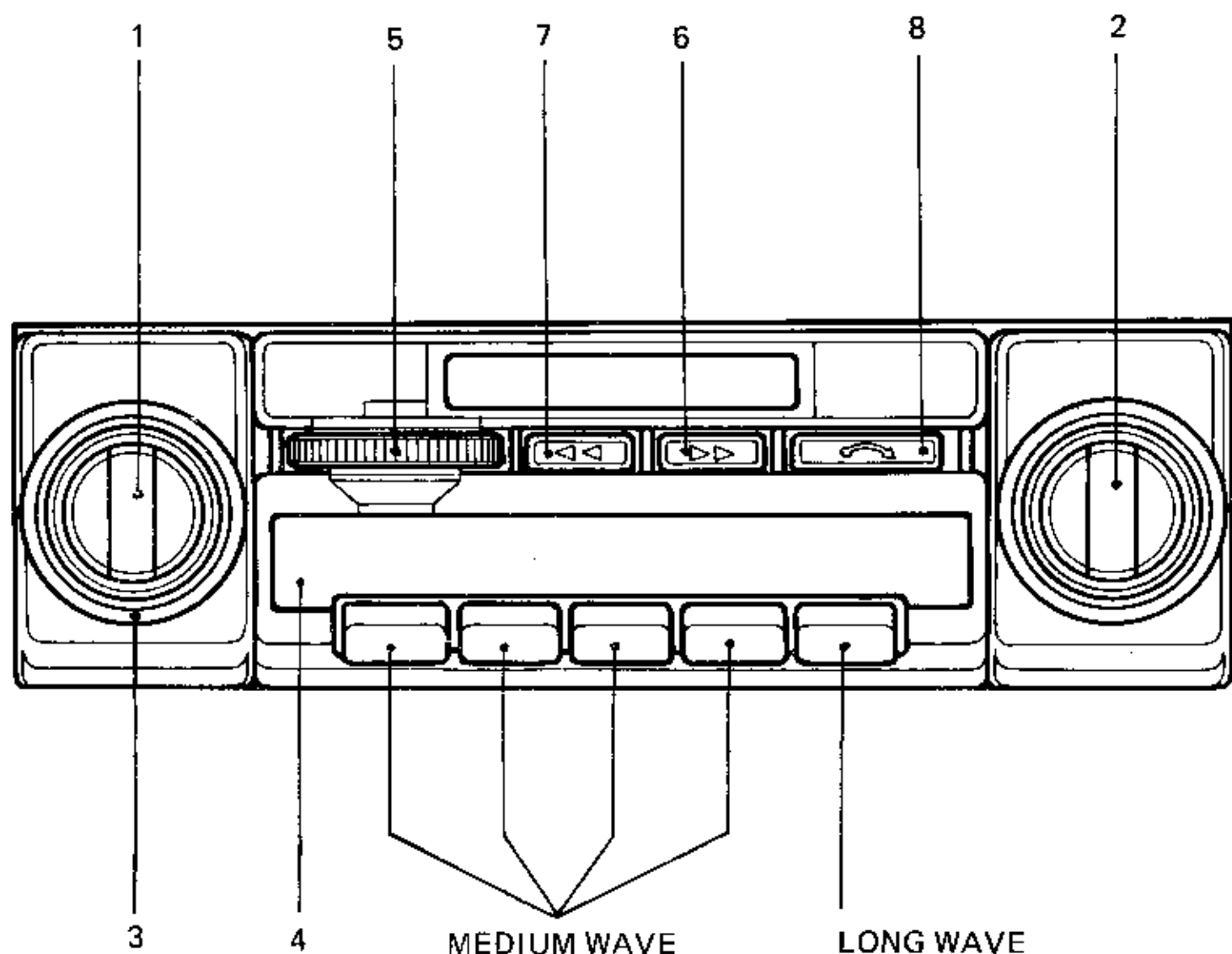


Fig.1

Balance Control

When listening to the radio, adjust the control 5 to its centre position. To suit the position of the listener and differences in programmes when listening to a cassette, adjust the control for the best stereo effect. This will be obtained when the average volumes of sound from the left and right speakers are approximately equal.

Fast Forward, Rewind and Cassette Eject

Press the button 6 to wind the tape fast forward. The button will latch in. To stop the tape moving forward press the buttons 6 and 7 at the same time, then release and identify the item playing. Repeat until the desired item is heard.

Press the button 7 to rewind the tape. The cassette will be ejected when the tape is fully rewound. To stop the tape during rewind press the buttons 6 and 7 as described in the previous paragraph.

If desired the cassette may be ejected during a programme by pressing the button 8.

Care & Maintenance

For optimum results from your Radiomobile radio it is advisable to ensure that the aerial mast is kept clean and that the sliding sections are lightly lubricated with an oily cloth from time to time.

Should the overall quality and sensitivity of the unit show a noticeable deterioration or should interference become excessive on the radio, do not immediately suspect the unit. The fault is more often with the installation and very probably with poor earthing at the base of the aerial or the underside of the panel to which it is fixed. If, after cleaning and making good this earth point, the reception is still impaired, assuming that the aerial circuit has been correctly trimmed, expert advice should be sought from your Radiomobile Dealer.

Periodic cleaning of the tape head, using a proprietary cleaning tape, should be carried out to remove accumulations of oxide dust deposits. Carefully follow the instructions supplied with the tape. Accumulations of these deposits can cause various fault symptoms e.g.:- loss of high frequency response, low output on one or more channels, excessive tape hiss, wow and flutter. Too frequent use of the cleaning tape can cause undue wear of the tape head and cleaning after 40 hours use is usually adequate provided good quality tapes are used.

Care of Cassettes

To extend the life of your cassettes and avoid damaging them when not in use, store them away from direct sunlight, dirt or dust. Do not touch the surface of the tape with your fingers.

Before playing a cassette, examine the tape. If the tape is loosely reeled or a loop of tape exposed, wind up the tape with a pencil inserted in the centre of one of the reels.

Never expose a cassette to a magnetic field. This would damage the quality or even erase the tape recording. Store your cassettes away from speaker magnets, electric motors or any magnetic device.

Installation of Speakers

General considerations

The speakers should be located symmetrically on either side of the vehicle centre line and as far apart as possible. Mounting one at the front of the vehicle and one at the rear will remove the stereo effect.

The recommended position for the speakers is low down and well forward in each front door panel. Alternative, but less effective, positions are:— at opposite ends of front parcel tray wall, opposite ends of rear parcel shelf, side panels below rear side windows.

The built-in water drip shields are to protect the speakers from the small quantities of rain water normally draining down through a door structure, but the speakers should not be mounted where they are exposed to the outside/underside of the vehicle body, or in positions where larger quantities of water may be expected under adverse conditions.

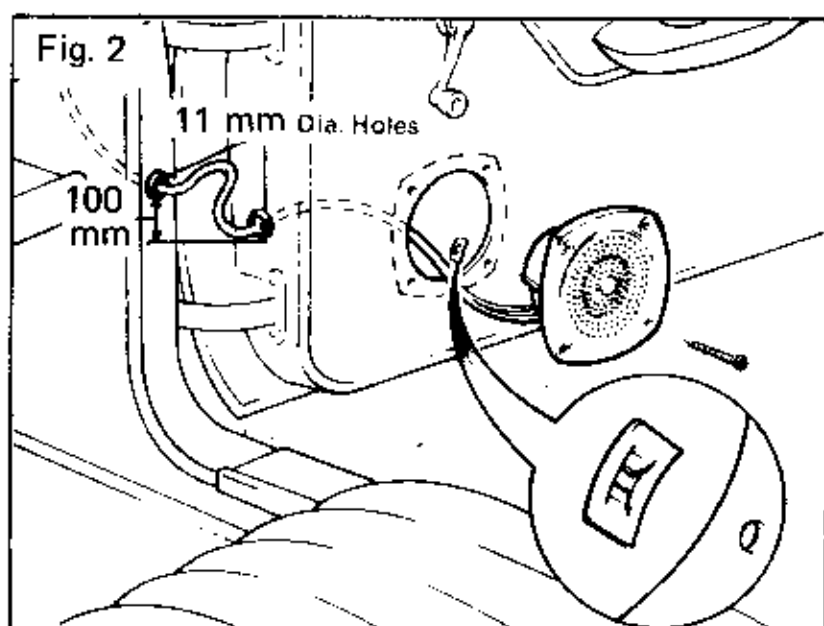
Before cutting or drilling any panels, thoroughly check behind chosen panels on both sides of the vehicle for possible obstructions, (in some cases, reservoir tanks, petrol tanks, windscreen wiper mechanisms, etc. will be found on one side only of vehicle, whilst the symmetrically opposite area is clear of obstruction), and any suitable existing apertures in metal panels which can be utilised for speaker mountings.

For DOOR MOUNTINGS, the following points must be checked:—

- The speaker grille should not be "masked" by seat cushions.
- The speaker grille should not foul the window winder handle at the nearest point in its revolution.
- The rear part of the speaker must not interfere with movement of the internal window operating mechanism, the window itself at any position of its travel, or door catch operating and locking mechanisms.

Mounting speaker/grille assemblies to panels

Having determined suitable locations after checking all the relative points outlined, mark the positions of the assemblies on the panels. Carefully cut apertures 107 mm dia. to clear the portions of the speaker and drip shield protruding behind the rear edge of the grilles. Do not cut larger holes which may either remove portions of the panel in which the fixing screws must be secured, or may not be covered by the grilles when fitted. See Fig 2. Temporarily hold a speaker assembly in position in the aperture, with the grille correctly orientated and the water shield uppermost (vertical panel mounting), and mark through the four fixing holes. Remove speaker assembly.



Drill suitable fixing holes for the No. 6 self-tapping screws. If using the screws to screw direct into a metal panel, drill 2.80 mm dia. holes (No. 35 drill). If the fixing is to a trim board only, drill clearance holes about 4 mm dia. and use the flat spring nuts behind the panel when securing the assembly to the panel.

Routing speaker leads into doors

Drill an 11 mm dia. hole in a suitable portion of the hinged edge of the door, and another hole in the opposite bodywork as shown in Fig 2. This second hole should be placed on the same vertical line but displaced about 100 mm from the first one to enable a loop of the lead to be produced which will withstand the flexing required by the door movements. Feed the ends of the lead through the holes, ensuring that the end of the lead with female sockets is fed towards the speaker position and fit the grommets to the holes.

Routing speaker leads to tape player location

Leads should where possible be routed behind trim panels, under door sill tread plates, through existing hollow body spaces, etc. When routing under carpets, keep leads tucked into corners and well away from possible damage by tip-up seats and adjustable seat mechanisms.

Connection to speakers

Push the female sockets on the leads over the tags on the speakers, ENSURING that the colour coded wire is in both cases connected to the tag marked with a red paint spot. Make sure when fitting the speakers in position, that the drip shields are on the top side of all speakers which are mounted in vertical panels, and that none of the speaker tags can touch the vehicle metalwork — insulate with tape if necessary.

Installation of Tape / Radio Unit

General Considerations

Carefully select a mounting location where the unit can be conveniently operated by the driver without interfering with normal driving functions and where there is sufficient space in front of the unit for the insertion and removal of a cassette. If apertures with holes for radio spindle bushes and dial case are provided in the fascia, the unit may be mounted behind the fascia as shown in Fig. 3 but if the dimensions of these apertures are different from those required (as indicated in Fig. 3), it may be necessary to enlarge them to accept the unit. Before doing so, carefully check that there is sufficient space behind the fascia aperture for the unit and that it will be clear of control cables, wires, hoses etc. Check that sufficient flat area on the panel exists to allow the rear edge of the styling moulding to seat down properly when the unit is finally in position through the panel.

Alternatively, face plates having the required apertures and a flange for attachment below the fascia or parcel tray are available and may be purchased from your local Radiomobile Dealer. However the unit is mounted, it is essential that a bracket, made from the perforated strip supplied, is used to support the rear of the unit. Check that a suitable point exists for the attachment of this bracket to the vehicle bodywork and that sufficient access is available to secure the bracket. The perforated strip may be cut and bent to form a suitable bracket. A suggested mounting is given in Fig. 3 but the method to be used will depend on conditions in the particular vehicle involved.

Installation

1. Pull off the control knobs, undo the spindle nuts and remove the styling pieces from under the nuts.
 2. Offer up the unit behind the fascia or faceplate and place the spindle bushes and dial case through the apertures.
 3. With the unit in position, select a fixing point for the rear support bracket on an adjacent panel or bulkhead.
 4. If necessary, cut and bend the perforated strip to suit and secure it to the threaded bush on the bottom cover of the unit with the screw, shakeproof and plain washers provided.
- Note: AVOID DAMAGE TO THE UNIT.

Should the attachment brackets not provide electrical earthing of the unit, an additional wire should be connected from the case of the unit to the vehicle metalwork ensuring good clean electrical joints.

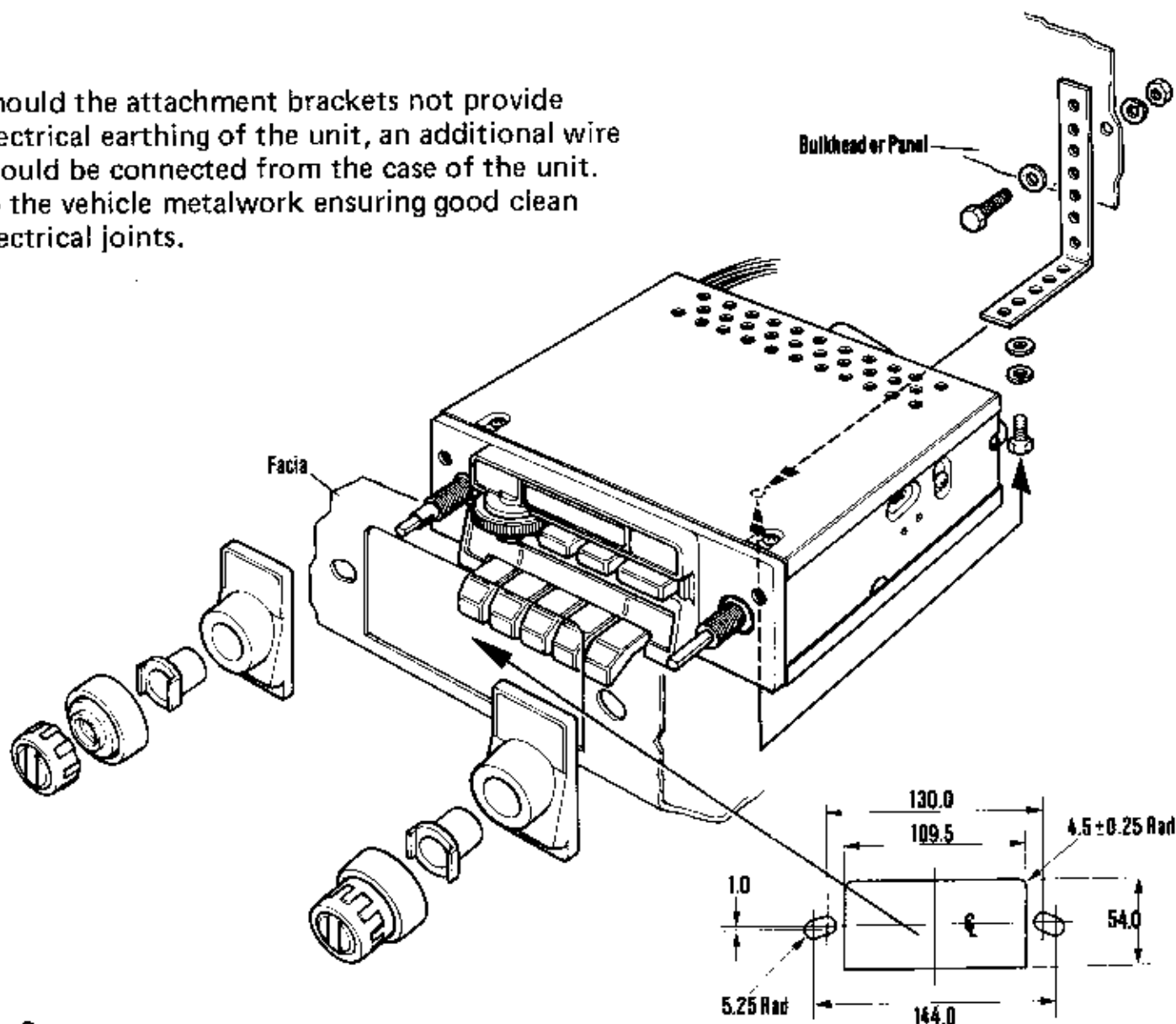


Fig. 3

The unit will sustain internal damage if a screw longer than 10 mm is used to secure the bracket to the unit.

5. Again offer up the unit in position and mark off a fixing point for the support bracket on the panel or bulkhead.

6. Remove the unit and drill a 5.2 mm clearance hole in the panel or bulkhead at the marked off position.

Note: Care must be taken not to disturb or damage any device or wiring on the other side of the panel when drilling this hole.

7. Before proceeding with the installation, temporarily connect the unit to the aerial, speaker and supply leads as described under "Lead Connections". Switch on the radio and carry out the aerial trimmer adjustment described under the "Aerial" heading.

8. Assemble the unit to the panel as shown in Fig. 3 and secure the rear support bracket to the panel or bulkhead with the fixings supplied.

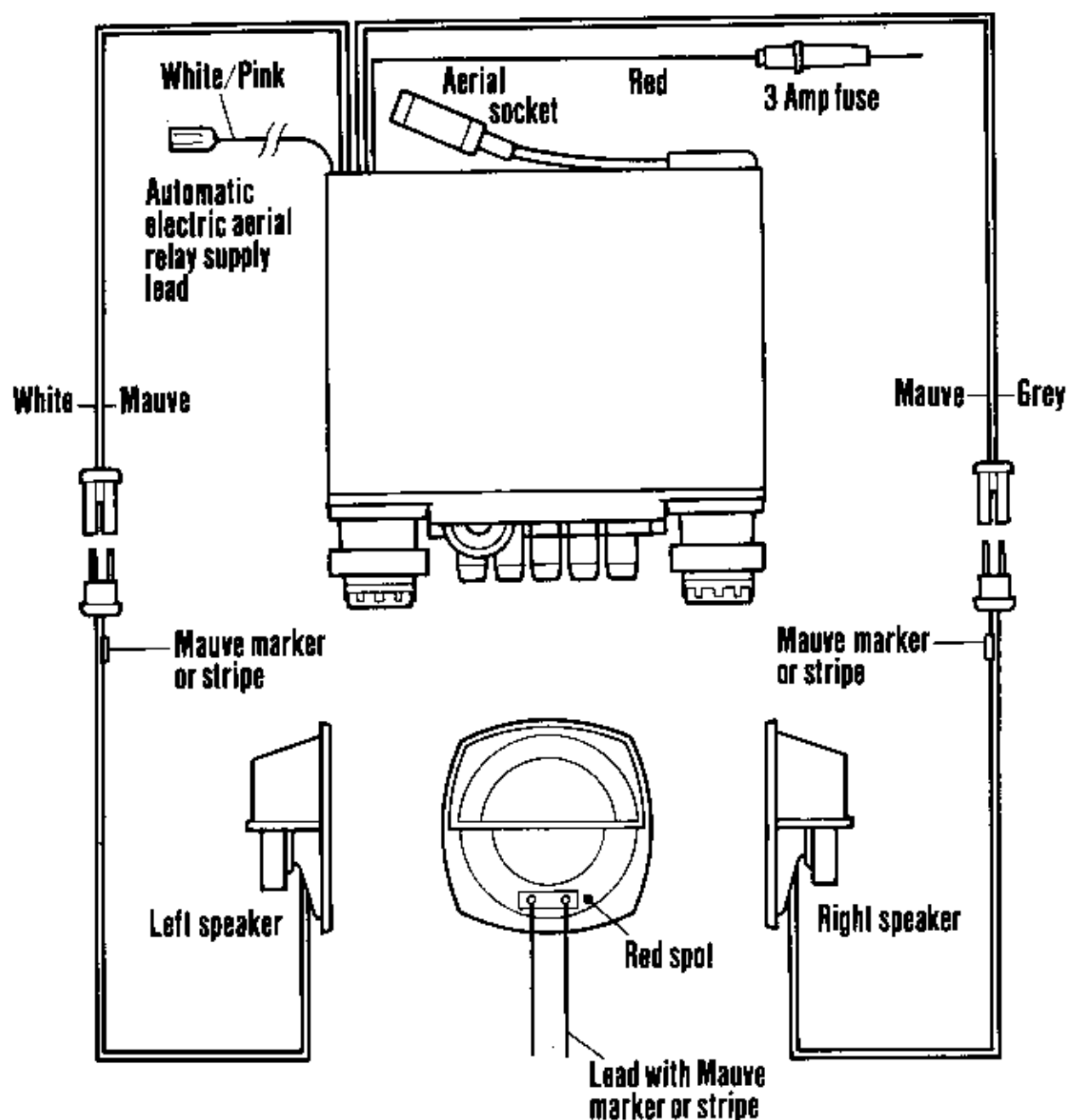


Fig. 4

Lead connections

Connect leads as shown in Fig. 4.

Ensure that the lead from the right hand speaker is connected to the socket wired with grey and mauve wires and the lead from the left hand speaker is connected to the socket wired with the white and mauve wires.

Also ensure that the plugs and sockets are connected with mauve lead marking colours matching i.e. mauve to mauve, to ensure correct phasing of the speakers.

WARNING: Do not operate the unit without both speakers connected. Ensure that all speaker connections are insulated from each other and from the vehicle metalwork.

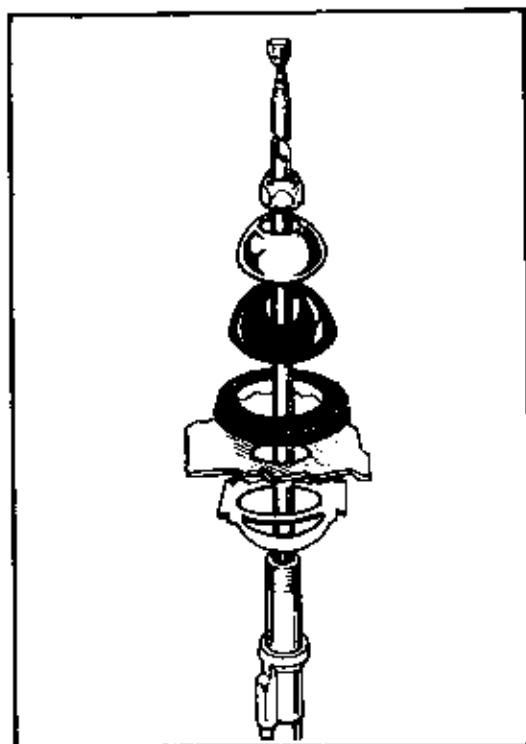
Aerial

Your Radiomobile dealer will advise on suitable aerials for your vehicle. Fit according to the instructions supplied with the aerial, route the lead to the radio and connect to the aerial socket.

Adjustment of the Aerial Trimmer.

It is essential that the aerial trimmer (accessible through a hole provided in the bottom cover on the right hand side of the unit) be adjusted to match the aerial to the unit.

Fully erect the aerial, switch on the radio and tune to a weak signal near the middle of the M.W. band. With a small screwdriver, adjust this screw through the maximum volume position and return back to maximum, to ensure that the final setting is at the 'peak' position.



Interference & Suppression

If interference is experienced, the 1 μ F suppression capacitors should be connected to the switch side of the ignition coil and to the main output connection of the generator or alternator. The capacitor mounting lugs must be connected to 'earth' (i.e. engine/vehicle bodywork) and are normally fitted under the ignition coil mounting screw and the rear support screw for the generator. Ensure a good electrical contact between lug and earth by cleaning away dirt or paint beneath the lug at the point of contact.

WARNING

Alternators can have 'LIVE' terminals – FIRST DISCONNECT THE BATTERY.

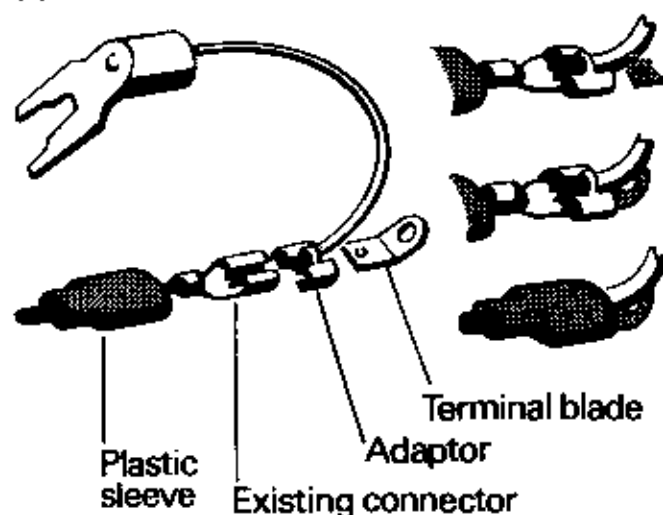
Connection of the capacitors to the wrong terminals can cause damage to the electrical equipment on the vehicle.

If in doubt, seek qualified advice

Whilst driving the car, other unwanted noises may intrude and upset your listening. Most of these, if originating from your car, may be suppressed by fitting proprietary items of suppression equipment which can be purchased from your Radiomobile agent.

Connection of Suppressor

1. Slide plastic sleeve along wire exposing connector
2. Pull connector off blade
3. Slide adaptor over connector
4. Push connector over blade
5. Refit plastic Sleeve



Radiomobile

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Model 310 CSR

Terms of Guarantee

Radiomobile Limited, guarantee this equipment for a period of twelve calendar months from the date of initial purchase.

During this period the above Company do undertake to replace or repair any equipment which has become non-serviceable through faulty manufacture, or through faulty materials used in manufacture provided that:

1. The equipment is returned to the factory or to a dealer authorised by the above Company to carry out such repairs, together with the guarantee card containing particulars of type, Serial No. and date of purchase.
2. The equipment has not been the subject of misuse: or of unauthorised modification, alteration or substitution.
3. No repair work has already been carried out in places other than such as are mentioned in provision above.
4. The equipment was an original purchase from an authorised Radiomobile dealer, or was a fitment to a new vehicle and was therefore purchased new with the vehicle.

The cost of materials and components used in any repair carried out under the above terms is borne by Radiomobile Limited.

NOTE

- a. In general, and except in such cases where the above Company may see fit to bear the total cost of any repair, the claimant is liable for expense incurred through packaging and carriage associated with the repair, including the cost of removal from, and refitting to the vehicle.
- b. The stated Company can accept no liability for damage to the equipment or impaired reproduction caused by faulty or inefficient installation or by external electrical interference.
- c. This guarantee does not cover the cleaning of oxide deposits from the tape head and mechanical components. The procedure for the necessary periodic cleaning of these items is explained elsewhere in this guide.
- d. The service offered under this guarantee is additional to any rights you may have under the Sale of Goods Act. Completion and return of the Guarantee Card will not prejudice those rights.