

B&W Modular Automobile Sound System

Instruction Manual

Model LM60



Installation Instructions

Description

LM60 is a twin driver 6x9 automobile loudspeaker system primarily designed for rear parcel shelf mounting. The 6x9 format is universally one of the most popular and many automobile manufacturers, especially in North America, automatically provision the rear parcel shelf with a suitable cutout, ensuring ease of installation.

Within the car industry, primarily produced in Japan, there are an enormous number of automobile loudspeaker systems which fulfil the "6x9" requirement, and the task of the B&W research team for this module was to fully research the requirement in terms of car acoustics, the dispersion of sound and the listening axis, and to develop a loudspeaker system which enjoyed the advantages of relatively low cost, high sensitivity and total reliability under wide temperature and humidity variations, and yet to continue B&W's acknowledged leadership in accurate, dynamic reproduction free from colouration.

Brief Specification

Twin 100mm Kevlar cone drive units with Kapton voice coil formers.

System Impedance: 4 ohms

Sensitivity: 92dB for 1W input.

Frequency Response: Typical incar installation 45Hz to 15kHz.

Peak sound level, typical incar installation: 112dB.

Built-in Equaliser and Fuse Protection.

Contents

Your LM60 pack contains a stereo pair of loudspeaker units, the contents of which are as follows:-

- 2 Loudspeakers
 - 2 Chassis Sealing Gaskets
 - 2 Grille Escutcheons with Perforated Metal Grille mounted.
 - * 16 M5 x 50mm (approx. 2") Mounting Screws
 - * 16 Washers
 - * 32 M5 Nuts
 - * 8¹/₄" (6.3mm) Push-on Spade Connectors
 - * 2 Templates
 - 2 2.5 amp Spare Fuses
- * A Complete spare set of mounting hardware is included to obviate loss or future re-installation requirements.

Assembly and Fitting Instructions

1. Unpack the contents, retaining one spare envelope of mounting hardware for subsequent possible requirements.

2. Remove perforated metal grille from moulded escutcheons by means of gentle pressure from behind.

3. Please refer to Figure 1 showing exploded view of component parts.

4. If a suitable cutout is not already provided in the rear parcel shelf, this may be made using the templates provided with this pack.

5. Holes drilled as indicated, diameter 6.5mm (1/4 ").

6. The diecast loudspeaker chassis with drive units and equaliser should now be offered up to the underside of the cutout, positioning so that the fuse, as shown in Figure 2, is accessible for ultimate replacement if necessary, with parcel shelf forming a sandwich between the chassis sealing gasket and grille escutcheon, assembling in the order shown in Figure 1.

7. M5 screws should then be inserted through the holes provided in the grille escutcheon plate, bolting up firmly from the underside to the loudspeaker casting, and subsequently additional nuts added to lock these permanently.

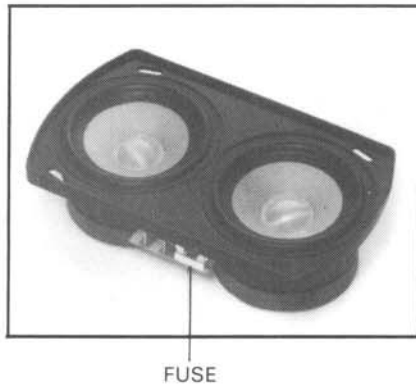
8. The perforated metal grille may now be placed in the grille escutcheon, which is already provided with a Mastik sealing compound both to retain the grille and to avoid any vibration or noises from the interface of these two components.

9. The output from the stereo amplifiers may now be connected with the spade terminals provided, ensuring that the polarity of the leads is observed, i.e. Positive to red spot.

10. The system is now ready for operation.

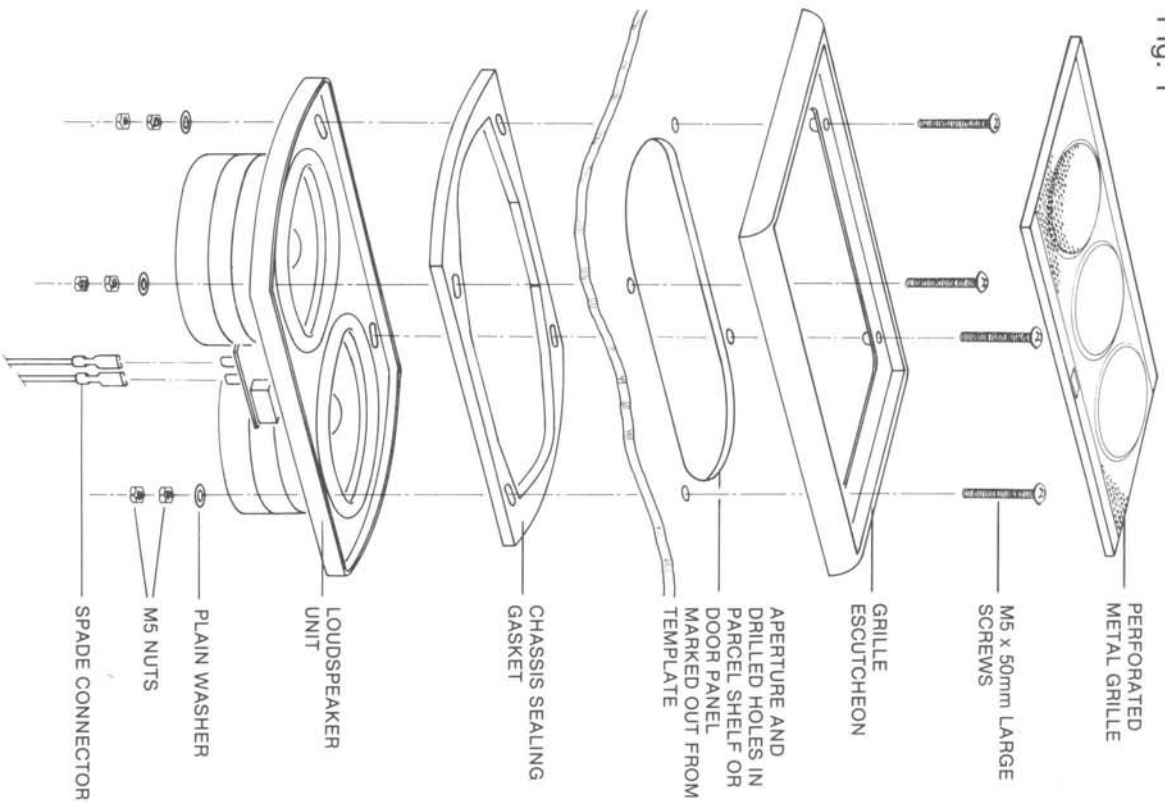
Figure 2 indicates the layout of components and replacement fuse position. In the event of fuse failure, a check should first be made to ensure no electrical fault exists, and then the fuse replaced with the spares provided or one of similar specification.

FIG. 2

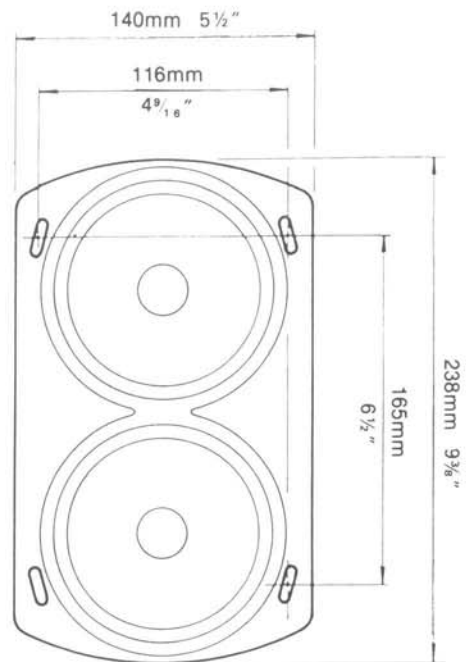
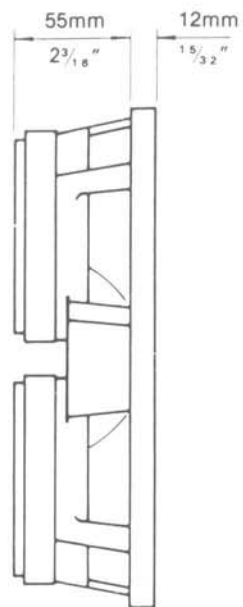


It will be appreciated that whilst LM60 is primarily designed for rear parcel shelf mounting, the acoustics of the system have been so engineered that it is essentially "non-critical" to rear environment, and provided there is adequate depth in door or other side panels, there is no reason why these drivers should not be so mounted, bearing in mind that secure fixing must be made in view of their relative weight.

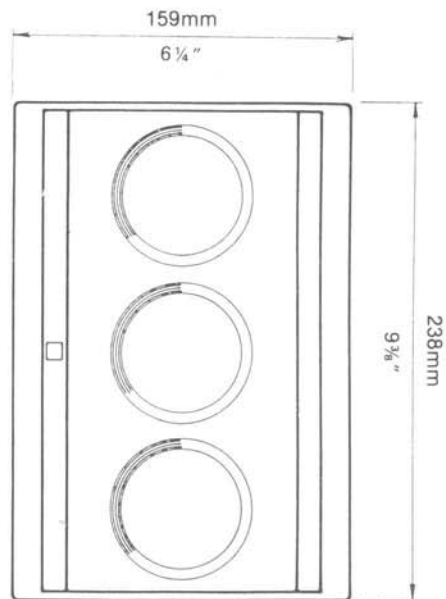
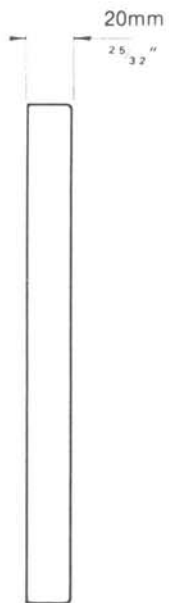
Fig. 1



Dimensions



Dimensions





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