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# DYNASOUND®



DS1390  
Soundmasking / Paging Speaker

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## GENERAL INFORMATION

The DS1390 plenum masker is a complete loudspeaker assembly ready for installation, in an open structure office facility or above suspended ceilings. The unit is composed of an six-inch diameter loudspeaker, metallic back box, 70V transformer, and volume control. The unit should be wired to a power amplifier with a 70.7 V output.

## UNPACKING

The Plenum Maskers are carefully tested before leaving the factory. Inspect both the units and their shipping container for indication of improper handling. Report any equipment damage to the distributor immediately. If the unit was shipped to you, notify the shipping carrier without delay and place your claim.

## TOOLS REQUIRED

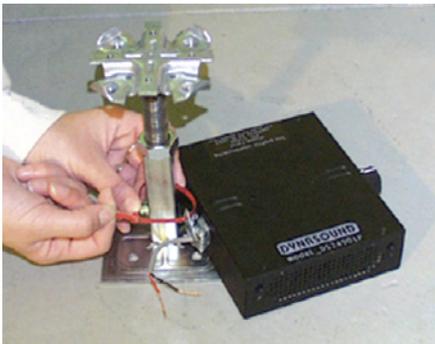
- Ladder, Wire strippers, Crimp Connectors, Flat headed screwdriver, others depending on attachment method
- Hanging wire or chain as preferred
- 18 Gauge twisted pair wire for electrical connection

## MECHANICAL INSTALLATION

The DS1338's eyebolt provides a single point suspension. Determine the correct method for attaching the hanging wire to the structure above the ceiling. Typically the method used to hang ceiling grid is the best for speaker installation. For example hangers can be shot into concrete structures or suspension wire can be wrapped around bar joists in metal ceiling structures. Set the volume control on each speaker at 1W (One Watt). Determine the locations for the speakers and open the appropriate ceiling tiles. Inspect the plenum for places to hang the speaker. It is always preferred to independently hang the speaker assembly. Cut a length of hanging wire such that the speaker may be hung from the chosen location.

## ELECTRICAL CONNECTION

All speakers will be connected in parallel. Run the zone wiring so that the wires pass each speaker. Start at the speaker at the END of the zone Strip the two zone wires. Twist the black wires together and twist the red (or white) wires together. Put a crimp connector on each connection and stuff the connections into the speaker and then screw down the strain relief clamp. Verify the speaker is on the 1W setting. Move to the next speaker and pull up any slack from the previous speaker and cut the zone wire. The zone wire should be suspended well above the ceiling and not left in loose loops. Some local codes require the wire to be suspended between the speakers. Use fire rated wire ties, where required by code, to dress the zone wires to speaker suspensions and to ceiling attachments. Strips both ends and twist all black wires together and twist all red (or white) wires together. Generally there are three wires of each color, the two zone wires and the wires into



## PROPER INSTALLATION TECHNIQUES

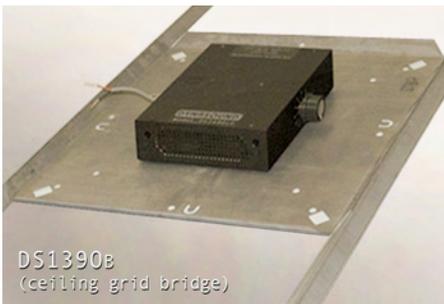
All electrical connections should be inserted into the speaker enclosure before tightening the strain relief. In addition, the wires should be attached to the hanging wire, using wire ties, as illustrated.

Fastening the lead wires at these two points while adjusting the speaker to be level is normally all that is needed to keep the speaker in the appropriate position.

Leaving the speaker connections outside the enclosure is bad wiring practice, and provides less ability to level the speaker.

In some cases where there is difficulty getting the speaker to hang correctly, the balance of the speaker can be changed by bending the eyebolt, very slightly, in the direction of the low point of the speaker.

It is not critical that the speaker be perfectly level, other than for aesthetic reasons.



DS1390B  
(ceiling grid bridge)



DS1390H  
(suspension hanger)

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## FIELD MAINTENANCE

No maintenance is required on these maskers other than possible repair of a wire broken during installation. The output level of the unit can be changed, if necessary, by rotating the volume control on the body of the housing. If the speakers fail to make sound on initial installation, check for an open or shorted home run wire. Check to make sure the amplifier has an output voltage when the home run wire is disconnected. If the zone wire has a short, the amplifier output fuse may have failed to protect the unit.

## WARRANTY

This product is warranted to be free of defects in materials and workmanship for one year.

This warranty is TERMINATED if the unit indicates that it was subjected to abuse, unauthorized modifications, accident, or alterations of any kind, or way. Any components of this product, which with normal installation and use become defective, will be either repaired or replaced at Dynasound's discretion. This equipment must be delivered or shipped, prepaid and insured, to our authorized service center, or to the Dynasound service department, after obtaining a Return Authorization. Said Return Authorization may be obtained by mail or telephone, and should be clearly marked on the accompanying paperwork. Any changes in product not approved by Dynasound shall VOID this warranty.

Dynasound is not liable for consequential damages. This warranty is in lieu of all other warranties, expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, and no representative nor person is authorized to assume for Dynasound any other liability in connection with the sale or installation of our products.

## WARRANTY REPAIR

Dynasound warrants its products from internal failure in normal use for one (1) year, and will repair units within warranty with out charge. For specifics, see the appended Warranty. Improper functioning, for warranty purposes, means failure of the unit to generate masking sound due to defects not caused by the Owner. It does not include such Owner caused malfunctions as accidental turning off of the system, readjustment of the controls, retuning of the system, shorting the zone wiring, or injury to the unit beyond normal wear. The owner must pay freight to return the unit and Dynasound will pay the freight for return. For Non-warranty repair, the owner must pay freight to return the unit. If the customer has credit, Dynasound will repair the unit and return it with an invoice for both the repair and return freight charges. If credit has not been established, the repair and return will be COD. Dynasound will notify the owner after any factory service whether it was a warranty repair or not.

The factory service facility is:

Dynasound, Inc.  
6439 Atlantic Blvd.  
Norcross, GA 30071  
(770) 242-8176