
DynasoundPRO[®]



DS1092
Soundmasking / Paging System

Unpacking

The unit was carefully checked before leaving the factory. Inspect both the unit and its 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. Unpack the unit. It is ready to be installed.

Description

The Dynasound DS1092 incorporates a masking generator, music and paging mixer, and a power amplifier. The masking generator is an analog type for true Gaussian noise, and includes a pink / white switch and variable low-pass filter which is adjustable over a range of 800 to 8,000 Hz. The mixer includes a transformer-isolated telephone paging interface as well as electronically balanced low-Z mic input and line level input for use with a tuner, CD player, tape, etc. The mixer also contains bass and treble control as well as power on and signal presence indicators. A master volume control adjusts the overall level. The power amplifier will produce 40-Watts.

Installation

A. Ventilation

As with any power amplifier, this unit requires proper ventilation for safe use as well as its own long-term reliability. The DS1092 requires a free flow of cooling air on all sides as well as the top and bottom. Never place articles such as books, etc. on top of the unit or against its sides. Never operate the unit on a soft surface such as carpeting, etc. that may effect airflow on the bottom of the unit. Never operate the unit near a heat vent or other heat-generating devices. The power amplifier relies upon its ability to get cool air.

B. Connecting & using the masking generator

1. Connect a 40 Watt (or less) load to the 70 Volt output or an 8 ohm load (or greater) to the 8 ohm output. Only one output may be used at a time. Don't attempt to use the 70 Volt and 8 ohm outputs simultaneously.
2. Turn all front panel controls to "0".
3. Connect the DS1092 to a nominal 120 Volt 50-60 Hz source.
4. The green power LED should now be lit.
5. Set the Pink / White switch to the desired position.
6. Set the Low Pass and Masking controls to 3 and adjust volume to approximately 47 dBA, generally around 5.
7. Gradually increase the Volume control. The yellow Signal LED should come on at between 2 and 4 on the volume control setting.

Equalization

If Assistance is Required

Call (800) 989-6275.

If a sound level meter is available, the following spectrums are recommended:

FREQUENCY	100	125	160	200	250	315	400	500	630	800	1000	1250
1/3 OCTAVE	47	46	45	44	43	42	41	40	39	37	35	34
ONE OCTAVE		51			48			45			40	
FREQUENCY	1600	2000	2500	3150	4000	5000	6300	8000	1000			
1/3 OCTAVE	32	30	27	24	21	20	17	14	11			
ONE OCTAVE	35			26			19					

C. Connecting & using microphone paging

1. Connect a 40 Watt or (less load) to the 70 Volt output or an 8 ohm load to the 8 ohm output. Only one can be used at a time. Don't attempt to use the 70 Volts and 8 Ohm outputs simultaneously.
2. Turn all front panel controls to "0". Note that the bass & treble controls are at mid range when at 0.
3. Plug a good quality low impedance microphone with an on-off switch into the XLR microphone connector on the rear panel and switch the microphone to on.
4. Connect the DS1092 to a nominal 120 Volt 50-60 Hz source.
5. The green power LED should be lit at this time.
6. Set the master volume control to 10 (straight up).
7. Gradually increase the microphone level on the front panel while speaking into the microphone at a normal tone of voice. Slowly increase the master volume if more gain is needed.
8. Adjust the bass & treble controls for the maximum intelligibility.

D. Connecting and using telephone paging

1. Connect a 40 Watt (or less) load to the 70 Volt output or an 8 ohm load to the 8 ohm output. Only one can be used at a time. Don't attempt to use the 70 Volts and 8 Ohm outputs simultaneously.
2. Turn all front panel controls to "0". (The bass & treble controls will be at mid range)
3. Connect the DS1092 to a nominal 120 Volt 50-60 Hz source.
4. Connect the balanced, dry (no battery or ringing voltage), output from your PBX to the screw terminals on the DS1092 rear panel.
5. The green power LED should be lit at this time.
6. Dial the paging code on your phone system and slowly increase the page control on the front panel for the desired level while speaking into the telephone.
7. Set the bass and treble controls for maximum intelligibility.

E. Connecting and using background music

1. Connect a 40 Watt (or less) load to the 70 Volt output or an 8 ohm load to the 8 ohm output. Only one can be used at a time. Don't attempt to use the 70 Volts and 8 Ohm outputs simultaneously.
2. Turn all front panel controls to "0". (The bass & treble controls will be at mid range)
3. Connect the DS1092 to a nominal 120 Volt 50-60 Hz source.
4. Connect the unbalanced output from your CD player, tuner, etc. to the Aux input on the DS1092 rear panel.
5. The green power LED should be lit at this time.
6. Turn on the CD player, etc. and slowly increase the music control for the desired level and set the bass and treble controls appropriately.

Warranty repairs

Dynasound warrants its products from internal failure in normal use for one (1) year, and will repair units within the warranty without charge. Improper functioning, for warranty purposes, means failure of the system to generate masking sound due the 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, or injury to the system beyond normal wear. The owner must pay freight to return the unit and Dynasound will pay the freight for return.

Non-warranty repairs

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 C.O.D.. Dynasound will notify the owner after any factory service whether it was a warranty repair or not.

Factory service facility is located at:

Dynasound, Inc.
6439 Atlantic Blvd.
Norcross, Georgia 30071
Tel: (770) 242-8176
Tel: (800) 989-6275

DS1092 Sound Conditioners

Specifications

Power requirements

Voltage	117 VAC
Frequency	50-60 Hz
Current	1 Amp (max) fused for 1-1/2 amps
Power	100 Watts (max)
Size	Height 3.5" Width 8.6" Depth (overall) 12"

Power amplifier

Power output 40 Watts (avg) THD

less than 0.15% impedance

8 Ohms or 70.7 Volts

Equalizer (on music, microphone, telephone inputs)

Bass +/- 10dB

Treble +/- 10dB

Masking generator

Switching for pink / white noise

Low-pass filter range 800 Hz - 8 kHz

Frequency response

Telephone input 300 - 4,000 Hz +/-3dB

Music input 150 - 20,000 Hz +/-3dB

Microphone input 150 - 20,000 Hz +/-3dB

Line output 100 - 20,000 Hz +/-3dB

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