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CONGRATULATIONS!

Thank you for choosing Niles DS Loudspeakers. With proper installation, use, and care, your loudspeakers will deliver years of listening enjoyment. Niles manufactures the industry's most comprehensive line of custom installation components and accessories. For information on our complete product assortment, please visit us at: www.nilesaudio.com.

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LEFT/CENTER/RIGHT CEILING-MOUNT LOUDSPEAKERS



DS7HD



DS8HD



DS7PR



DS8PR



DS7MP

SURROUND EFFECTS CEILING-MOUNT LOUDSPEAKERS



DS7FX



DS8FX

STEREO INPUT CEILING-MOUNT LOUDSPEAKER



DS7S



INTRODUCTION

Niles DSL oudspeakers deliver an uncompromising combination of designer oriented aesthetics, superb sound performance, and ease of installation. Small footprint and low profile, Micro Thin¹¹ magnetically attached grilles provide the look that homeowners desire. Available in 1" and 8" versions, there are left/center/right, surround effects, and stereo input models to satisfy applications ranging from advanced home theaters to distributed audio systems. Niles' patented Directed Soundflet(1" photing woofer technology precisely directs the sound to the listening area for the best possible audio performance.

FEATURES AND BENEFITS

DESIGNER AESTHETICS

Magnetically attached MicroThin™ round speaker grilles ensure a clean, unobtrusive designer appearance that blends with the room's aesthetics. Optional source or illes crovide acticed design flexibility.

SUPERIOR SOUND QUALITY

Patented Directed Soundfield** technology* precisely directs the sound to the listening area for better sound quality. New patent-pending pivot mechanism provides for smooth adjustment and holds the loudspeaker securely in position.

INSTALLATION EASE

Three patent-pending, spring tensioned mounting clamps permit quick installation and compensate for uneven mounting surfaces and varied environmental conditions. Weather-resistant construction enables installation in moist areas such as bathrooms or outdoors under seves.

INSTALL WITH CONFIDENCE

The best-built loudspeakers deserve the best protection—the Niles Lifetime Limited Warranty.

PARTS GUIDE

PACKAGE CONTENTS: DS7MP, DS7PR, DS7HD, DS8PR, DS8HD, DS7SI

(1) Niles DS loudspeaker, (1) Magnetically attached round grill, (1) Hole template with painting standoffs. (1) Owner's manual with warranty information

PACKAGE CONTENTS: DS7FX, DS8FX

(2) Niles DS loudspeakers, (2) Magnetically attached round grilles, (2) Hole templates with painting standoffs. (1) Owner's manual with warranty information

INSTALLATION CONSIDERATIONS

Recommended tools for installation:

- Cordless screwdriver
- One inch #2 Phillips tip
 1/8* Drill bit
- Drwall saw
- La yaran bah
- Laser plumb bob
- 12" -14" Coat hanger wire Pencil
- Measuring tape
 Painters tape
- Stud finder
 Spackle
- Optional a 24" x 24" piece of R19 insulation

Drop cloth

Wire stripper
Cable ties

7" DS LOUDSPEAKERS

These require an 8-1/2" (21.6 cm) diameter hole opening and a minimum of 6" (15.25 cm) depth when measured from the exterior face of the drywall. To the sides of the hole you will need 1" for the mounting tabs to clamp the speaker to the drywall.

8" DS LOUDSPEAKERS

These require a 9-3/4" (24.8 cm) diameter hole opening and depth of 6" (15.25 cm) from the face of the drywall. To the sides of the hole you will need 1" for the mounting tabs to clamp the speaker to the drywall.

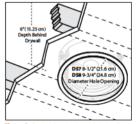


Figure 1. Required dimensions for installation in ceiling.

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^{*} U.S. Patent 6.070.694



INSTALLATION CONSIDERATIONS CONTINUED

If you are going to use the optional Niles Rear Wave Enclosure, you will need an additional 2" of depth and 10" clearance to one side of the loudspeaker opening.

NOTE: BE VERY CAREFUL WHEN LOCATING THE SPEAKERS, VERIFY ALL LOCATIONS ARE CLEAR OF OBSTRUCTIONS BEFORE CUITING THE FIRST HOLE.



Each speaker requires two-conductor wiring of sufficient gauge. The gauge depends on the length of the wire. For recommendations, please refer to (Rgure 2). (Stereo Input loudspeakers require four-conductor wiring).

Distance from speaker to amplifier	Wire Gauge
Less than 80 feet	16
80 to 200 feet	14
More than 200 feet	12

Figure 2. Speaker Wire Gauge Guide

When running loudspeaker wire inside walls or cellings, use special jacketed cable (CL-2 or CL-3 rating) to protect the wire and for fire prevention. In some municipalities, conduit is required. For a trouble-fee installation, low voltage wire such as loudspeaker wire must be in accordance with the National Electrical Code and any applicable provisions of the local building code. If you are unsure of the correct installation techniques, wire jacket, or type of conduit to use, consuit a professional audio/video installer, building contractor, or the local building and inspection department.

* Not for use with SISpeakers

INSTALLING THE LOUDSPEAKERS

It is often easier to key the speakers out on the floor and then transfer the locations to the ceilling with a laser plumb bob. If you are using new construction brackets, place string across the centers of the bracket to provide a way to align the bracket to the laser. Remember, you will need 1" to the sides of the mounting hole for the mounting clamps to secure the speaker to the drywall.

- Once you have determined a possible position for the hole cutout, drill a 1/8" pilot hole just barely through the ceiling (1/2" to 5/8" deep in most homes) in the center of your proposed loudspeaker location. BE VERY CAREFUL NOT TO DRILL THROUGH EXISTING WIRES, PIPES, OR STRUCTURE. IF YOU FEEL ANY EXTRA RESISTANCE AS YOU ARE DRILLING, STOP.
- 2. Cut a bot-long piece of coat hanger. Bend the wire (creating a right angle) leaving 5-1/2" at one end (this allows for the extra width of the mounting dogs). Poke the "L-shaped" wire into the pilot hole and turn it in a complete circle and move it into the ceiling cavity to make sure you have approximately 6" of depth. If the wire's movement is obstructed by anything, fill the hole(s) with spackle and try another location, (if there is any risk of uninsulated electrical connections within the ceiling area, use insulating gloves or other materials or consult with an installation professional before proceeding.
- If the coat hanger moves freely in a complete circle and you have sufficient depth, tape the template to the ceiling and proceed to layout the other speakers. Once you are comfortable with all speaker locations, use a pencil to lightty outline the circular template.
- 4. Drill the starting point of your cut with a 1/4" bit.
- 5. If you are cutting drywall, use a sheetrock or keyhole saw. Cut the hole with the saw at a 45° angle. That way the drywall section can be replaced cleanly if there is an unseen obstruction behind the wall. IMPORTANT: BE VERY CAREFUL NOT TO SAW THROUGH EXISTING WIRES, PIPES, OR STRUCTURE. IF YOU FEEL EXTRA RESISTANCE AS YOU ARE CUTTING, STOP.

NOTE: DO NOT INSTALL LOUDSPEAKERS BEFORE THE DRYWALL HAS BEEN COMPLETELY FINISHED AND PAINTED.

(CONTINUED ON NEXT PAGE)



INSTALLING THE LOUDSPEAKERS CONTINUED.

- Prep the speaker wire by stripping 1/4"-1/2" from each speaker lead.
 Twist the strands or tin the leads with solder to ensure there are no stray
 strands that could short and possibly harm the amplifier.
- If you've chosen to use insulation behind the loudspeaker, place it through the hole and center it on the opening. If using paper-backed insulation, it should be placed so that the paper side is away from the loudspeaker.

1" clearance to the sides of the hole opening

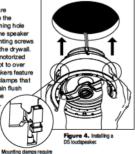
8. The speaker has black and red spring-loaded connectors (Figure 3). Black is for the negative (-) wire and red for the positive (+). It is important to observe correct wiring polarity. This is especially important for the Stereo input (5) Loudspeaker. If you have wire other than black and red, make sure you connect it the same on the amplifer end as the speaker end. Failure to do so will a diversely affect the loudspeakers' performance.



NOTE: DO NOT CARRY THE SPEAKER BY THE TWEETER OR TWEETER BRIDGE. THIS MAY DAMAGE THE SPEAKER.



Figure 3. Spring-loaded speaker wire connectors.



ADJUSTING THE PIVOTING WOOFER AND TWEETER

DS budspeakers feature the patented Directed Soundfield M woofer pivot mechanism that enables the loudspeaker to direct the sound to the listening area (Figure 8). The tweeter(s) pivot independently of the woofer to provide additional control of the sound. Adjusting the woofer angle will affect the tweeter angle, so always begin by adjusting the woofer.

- Press the outside edge of the woofer on the plastic, not the rubber, and slide the speaker until it is facing the primary listening position. The woofer adjusts approximately 15-degrees. Do not force the speaker.
- After adjusting the woofer, adjust the tweeter by pressing on the outside edge of the tweeter to point to the listening area.

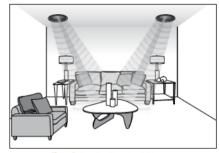


Figure 5. Am woder and tweeter towards listener area.



SWITCH ADJUSTMENTS

TWEETER SWITCH (DS7MP, DS7PR, DS7HD, DS8PR, DS8HD, DS7SI)

The three-position tweeter switch allows you to adjust the high frequency output of the loudspeaker to compensate for room acoustics. The center position does not affect the tweeters output. Moving the switch to the – position reduces the tweeter output by 3 dB to compensate for bright rooms (tile or wood floors, spare furnishing, tall ceilings). Moving the switch to the + position increases the tweeter output by 3 dB to compensate for absorptive rooms (carpeting, lots of drapery, plush furniture, etc.).

DIALOG COMPENSATION SWITCH (DS7MP, DS7PR, DS7HD, DS8PR, DS8HD, DS7SI)

This switch provides additional definition at critical midrange frequencies where the human voice is reproduced. This switch is generally used only for home theater center speaker applications. Engage the switch if you wish to enhance the dialog.

DIFFUSE / DIRECT SWITCH (DS7FX, DS8FX)

Use the Diffuse setting for movies and general music listening since most films are mixed using non-localized surround effects and music is usually recorded in a favorable acoustic environment. Use the Direct setting for discrete multi-channel recordings that equally emphasize front and surround sounds. For 7.1-channel surround sound systems, use the Diffuse setting on the side effects loudspeakers and the Direct setting for the rear effects loudspeakers.

PAINTING THE GRILLES

The DS loudspeaker grilles can be painted without priming, but the fabric scrim must first be removed. The installation template has die cut standoffs that can be used to position the grille off the ground while painting. Use severall light coats sprayed from different sides and angles to cover all surfaces and not fill in any holes. If you do fill some holes, use compressed air to open them before the paint dries. It may be helpful to dilute the paint.

INSTALLING THE GRILLES

The Niles MicroThin™ speaker grille installs magnetically over the speaker. Carefully center the grill over the speaker and let the magnets do their work, verifying that the grill sets flush against the ceiling at all edge.

APPLICATIONS

Niles DS Loudspeakers are designed to be installed in any standard ceiling. When choosing a location, thought should be given to the sound coverage of the loudspeaker; and ease of running the speaker wire.

STEREO SOUND APPLICATIONS

The best stereo effect will be achieved if both loudspeakers are at an equal distance from the listening area. Ideally all loudspeakers should be on the same horizontal plane (Rgare 6). Avoid installing loudspeakers near corners to prevent a "boomy" or diffracted sound. Also note that the lower the ceiling, the closer the loudspeaker should be placed to the listener.



Figure 6. Stereo Sound Application.

HOME THEATER APPLICATIONS

Left/Center/Right - Position the center channel loudspeaker directly over the television, with the left and right speakers equidistant from the center. The separation between the left and right should not be more than the distance to the primary seating area. (Flaum 7).

Side Surround Effects – Position surround effects loudspeakers to the sides of the listening area with the tweeters in-line with the listener. The tweeters should point to the front and rear of the room (Figure 7).

Rear Surround Effects – Position surround effects loudspeakers behind the listening area, to the inside of the front left and right speakers. The tweeters should point to the sides of the room (Flaure 7).

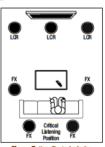


Figure 7. Home Theater Application.

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APPLICATIONS CONTINUED

SINGLE SPEAKER STEREO INPUT APPLICATIONS

Stere o Input loudspeakers are ideal for small rooms where positioning two loudspeakers is not practical. Examples would be a small kitchen, bathroom, hallway, or small bedroom. Locate the loudspeaker as close to the center of the room as possible for the most even distribution of sound (Rgares). Avoid installing the loudspeaker near a corner to prevent a "boomy" or diffracted sound.



Figure 8. Single Loudspeaker Stereo Input Application.

SPECIFICATIONS

Model	Weater	Tweeter/ Midrange	Recommended Amplifier Power	Normal Impresance	Frame Dimensions with Grille	Hale Cut-Out Dimensions	Depth (5/6" Drywall Calling)
DS 7MP	7" glass fiber woofer cone	1" UltaSB* sdt dome	10-130 watts	8 ohm naminet 6 ohm minimum	9-7/8* @ 1.15 cm)	8-1/2* (21.6 cm)	5-5/16" (13.6 cm)
DS7PR	7" glass fiber woofer cone	1" fluid-cooled Teteron® dome	10-130 wetts	8 ohm naminat 6 ohm minimum	9-7/8* (21.15 cm)	8-1/2* (21.6 cm)	5-5/16* (13.8 cm)
автно	7" IMPACT (Improved Aluminum Ceramic Technology) cone	1" nano-coated MPACT dome	10-160 watts	8 ohm naminst; 6 ohm minimum	9-7/8" (21.15 cm)	8-1/2" (21.6 cm)	5-5/16* (13.6 cm)
DS7FX	7º glass fiber woofer cone	Dud 1* fuld-cooled Teterar* domes	10-140 wetts	8 ohm naminst; 6 ohm minimum	9-7/8" (21.15 cm)	8-1/2* (21.6 cm)	5-5/16* (13.8 cm)
DEFEI	7" glass fiber woofer cone	Dud 1* Uta6#- sot domes	10-100 wetts	8 ohm naminst 6 ohm minimum	9-7/8" © 1.15 cm)	8-1/2" (21.6 cm)	5-5/16* (13.6 cm)
D.99P R	8" glass fiber woofer cone	1" fluid-cooled Teterar" dome /1-1/2" fluid-cooled Teteror" dome	10-140 watts	8 ohm naminst; 6 ohm minimum	11-1/4" (28.52 cm)	9-3/4" (24.76 cm)	5-5/16* (13.6 cm)
DS8HD	8" IMPACT (improved Aluminum Ceramic Technology) cone	1" namo-costed MPACT dome	10-160 watts	8 ohm naminst; 6 ohm minimum	11-1/4" (28.52 cm)	9-3/4° (24.76 cm)	5-5/16* (13.6 cm)
DSSFX	8" IMPACT (improved Aluminum Ceramic Technology) cone	Dual 1" nano- costed IMPACT domas	10-160 wetts	8 ohm naminst; 6 ohm minimum	11-1/4" (28.52 cm)	9-3/4* (24.76 cm)	5-6/16* (13.6 cm)

Model	Description	Additional Depth Behind Celling	Additional Side Clearance
RWETC	7 * Rear Wave Enclosure	1-13/16*	10*
RWBC	8" Rear Wave Enclosure	1-15/16*	10"



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Two years from the date of purchase

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