

## **Bose® FreeSpace® DS 16F Loudspeaker**

Installation Guide\*

Installationsvejledning\*

Installationsanleitung\*

Guía de instalación\*

Guide d'installation\*

Guida all'installazione\*

Installatiehandleiding\*

Installationsanvisning\*

***BOSE***®



*\* For use by trained installers only*

*\* Kun til brug for erfarne installatører*

*\* Montage ausschließlich durch ausgebildetes Installationspersonal*

*\* Para uso exclusivo de instaladores capacitados*

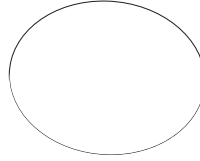
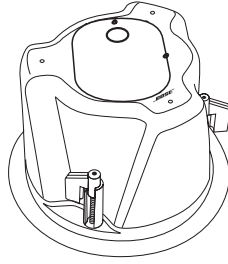
*\* Réservé aux installateurs ayant suivi une formation*

*\* Solo per l'uso da parte di installatori professionisti*

*\* Uitsluitend voor gebruik door ervaren installateurs*

*\* Ska endast användas av utbildade installatörer*

**Package Contents**



English

Dansk

Deutsch

Español

Français

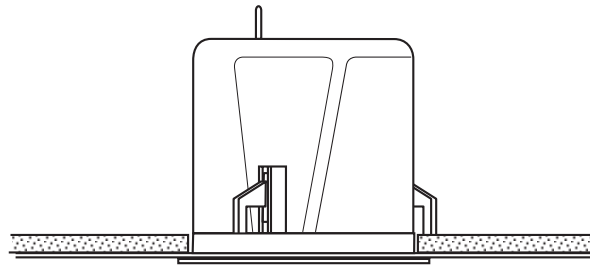
Italiano

Nederlands

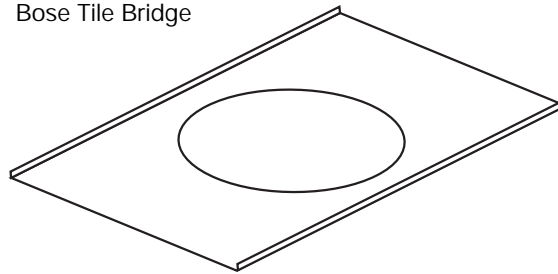
Svenska

**Choices**

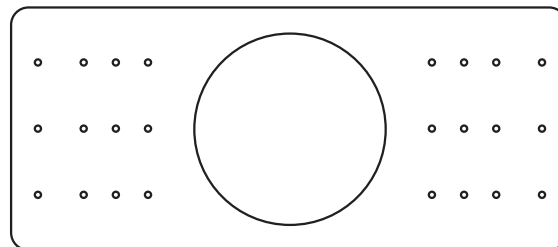
Requires use of a Bose® Tile Bridge or Rough-in Pan.  
 Kræver brug af en flisebro eller skål til planmontering fra Bose®.  
 Hierfür ist eine Bose®-Deckenbrücke oder ein Einbausatz erforderlich.  
 Requiere el uso de un Puente de panel o Cubeta encastrable Bose®.  
 Nécessite la plaque de renfort ou la plaque de montage Bose®.  
 Richiede l'uso un bridge o un rough-in pan Bose®.  
 Vereist het gebruik van een bevestigingsplaat voor hangende plafonds met tegels of een pre-installatiekit.  
 Kräver en Bose®-brygga eller avlastningsplatta.



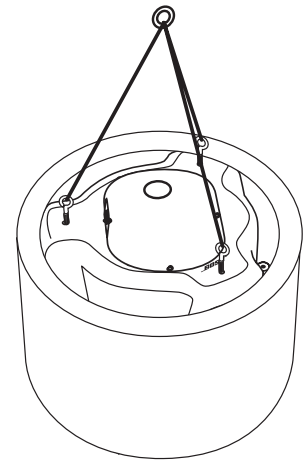
Bose Tile Bridge



Bose Rough-in Pan



Bose Pendant Mount Kit



- English
- Dansk
- Deutsch
- Español
- Français
- Italiano
- Nederlands
- Svenska

Connections

English

Dansk

Deutsch

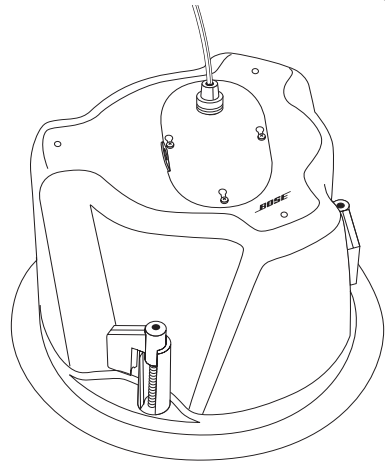
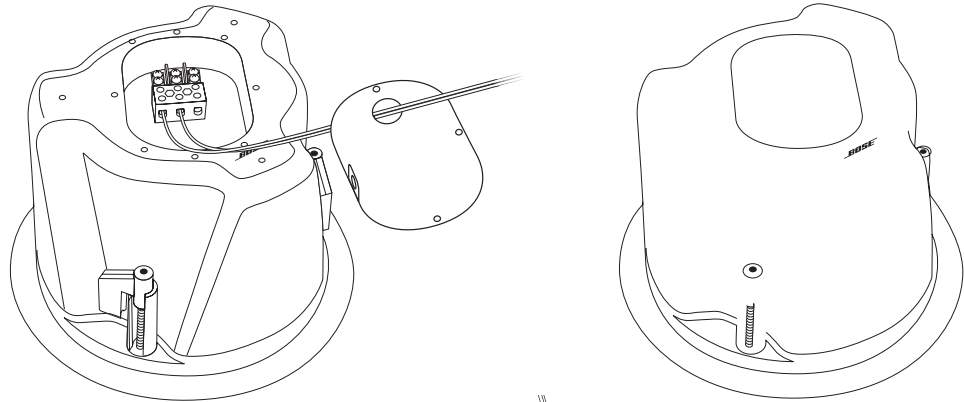
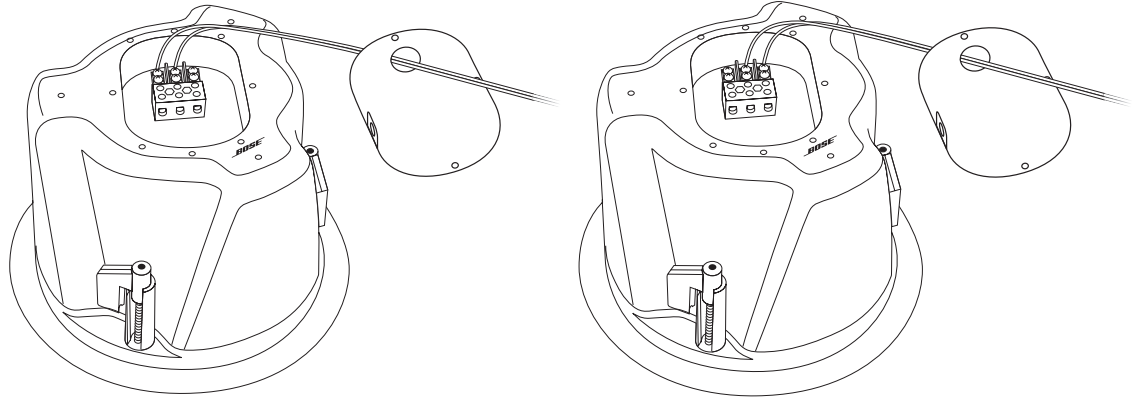
Español

Français

Italiano

Nederlands

Svenska



**Mounting the loudspeaker**

**Montering til højtaleren**

**Aufbau die lautsprecher**

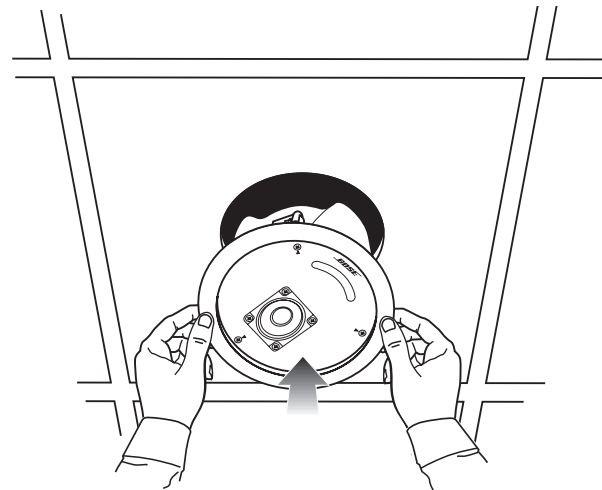
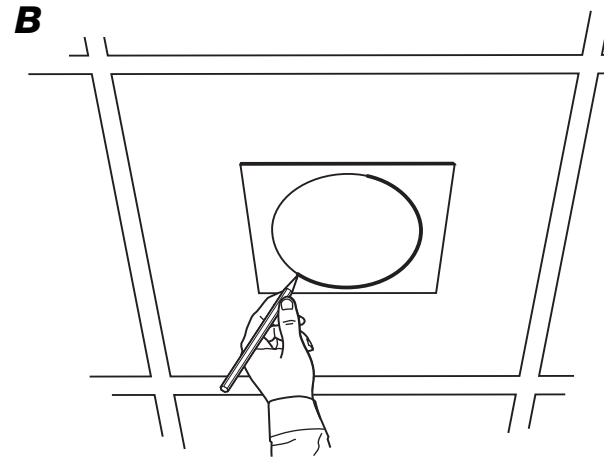
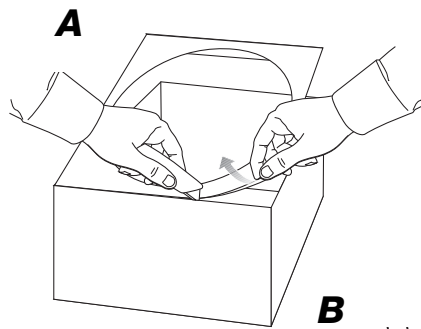
**Montaje el altavoz**

**Fixation l'enceinte**

**Installazione il diffusore**

**Monteren van de  
luidspreker**

**Montering det högtalare**



## Installation

**Transformer tap setting or k**

**Transformer tapsætning eller**

**Einstellen der Transformator**

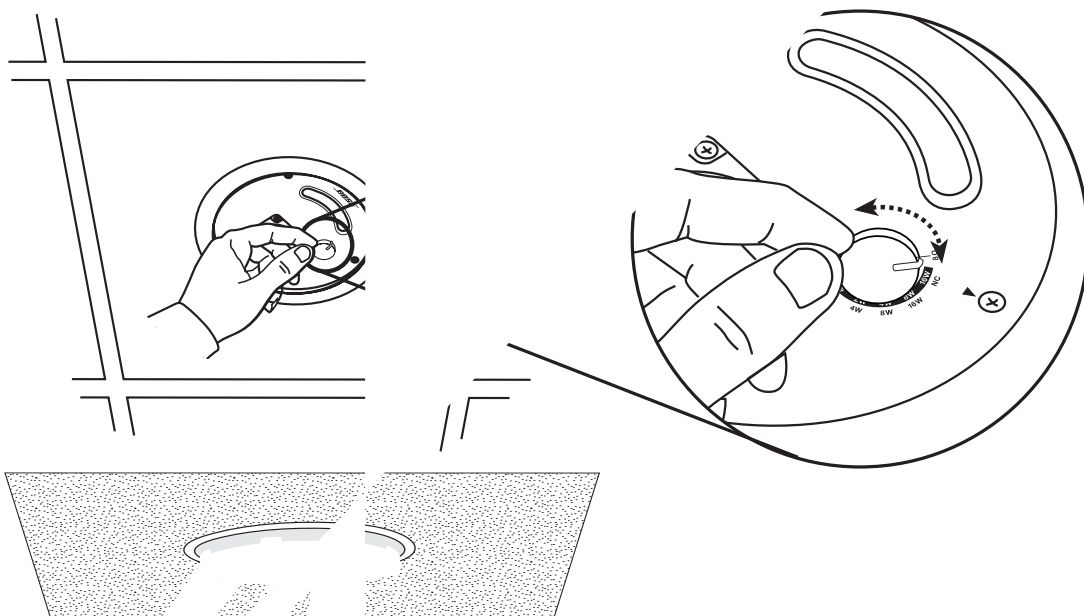
**Ajuste del cambiador de la**

**Position des réglages ou sh**

**Trasformatore: impostazion**

**Aftakings-instelling van de**

**Tappinställning eller avledn**



## Safety and regulatory compliance

The FreeSpace® DS 16F loudspeaker has passed extensive testing and complies with the following specifications and uses:

Listed to ANSI/UL 1480-2005

- Fire Protective Signaling Use – UL Category UUMW, File Number S 3241. Control Number 42S9. Not for use with DC-supervised systems.
- General Purpose Use – UL Category UEAY, File Number S 5591 Control Number 3N89.
- Suitable for use indoors in damp locations.
- Suitable for installation using Class 1, Class 2, or Class 3 wiring methods in accordance with NFPA 70, *National Electric Code*, 2002, Article 640.
- Suitable for use with fire alarm circuit wiring methods in accordance with NFPA 70, *National Electric Code*, 2002, Article 760.
- Suitable for use in air handling plenum spaces with a model PC-16 Plenum Cover installed.
- UL-2043, *Fire Test and Visible Smoke Release for Discrete Products and their Accessories Installed in Air Handling Spaces*.
- NFPA 70, *National Electric Code*, 2002, Article 300-22 (c).
- NFPA 90-A, 2002, *Installation of Air Conditioning and Ventilation Systems*, Paragraph 4.3.10.2.6.5.

EMC Directive 89/336/EEC and Article 10 (1) of the directive, EN50081-1 and EN50082-1 as signified by the CE mark.

The DS 16F also has been designed to the requirements defined in the following European regulatory specifications for combination systems:

- British Standard Code of Practice BS 5839, Part 8 (with PC-16).
- Tested to IEC60268-5.

UL Sensitivity Wattage Tap Sound Pressure Level dBA at 3.1 meters (10 feet):

Wattage	ANSI/UL 1480-2005	
	70V	100V
1 Watt	72 dBA	-
2 Watt	75 dBA	75 dBA
4 Watt	79 dBA	79 dBA
8 Watt	81 dBA	81 dBA
16 Watt	83 dBA	83 dBA
8 Ohm	84dBA	

SPLs given are per the UL 1480 specified reporting method.

Frequency response:

Fire alarm: 400 Hz to 4 kHz

General Signaling: 80 Hz to 16 kHz ( $\pm 3$  dB)



The Declaration of Conformity for this product can be found at [www.bose.com/static/compliance/index.html](http://www.bose.com/static/compliance/index.html).

### Wire gauge

The FreeSpace® DS 16F loudspeaker is designed to work with 18 AWG (0.8 mm<sup>2</sup>) to 14 AWG (2.0 mm<sup>2</sup>) size wire only.

***BOSE***<sup>®</sup>  
*Better sound through research*<sup>®</sup>

©2007 Bose Corporation, The Mountain  
Framingham, MA 01701-9168 USA  
AM299985 Rev.00