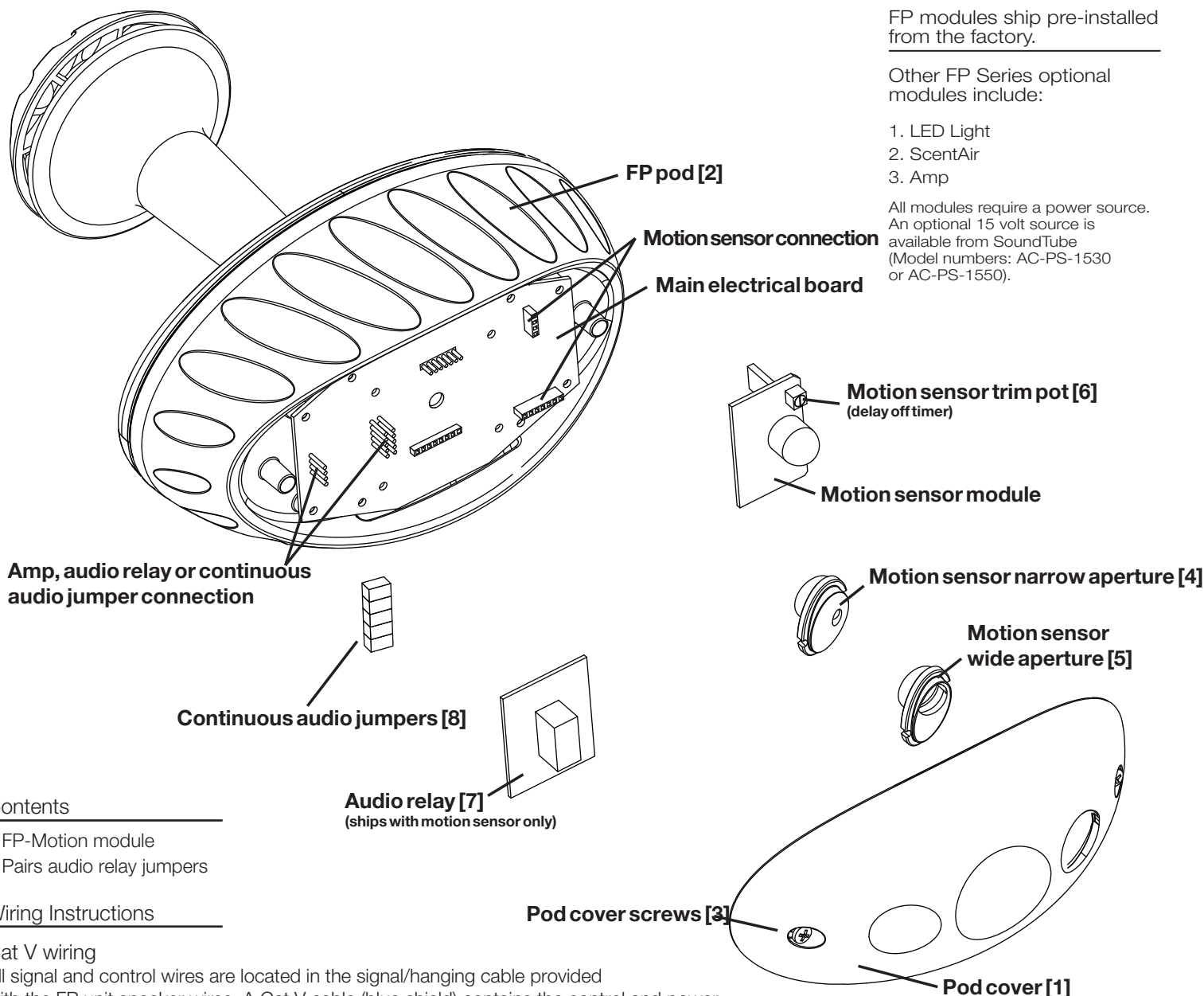# FP Series | Install Instructions For:
FP-Motion

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FP modules ship pre-installed from the factory.

Other FP Series optional modules include:

1. LED Light
2. ScentAir
3. Amp

All modules require a power source. An optional 15 volt source is available from SoundTube (Model numbers: AC-PS-1530 or AC-PS-1550).

FP pod [2]

Motion sensor connection

Main electrical board

Motion sensor trim pot [6]
(delay off timer)

Motion sensor module

Amp, audio relay or continuous audio jumper connection

Motion sensor narrow aperture [4]

Motion sensor wide aperture [5]

Continuous audio jumpers [8]

Audio relay [7]
(ships with motion sensor only)

Pod cover screws [3]

Pod cover [1]

Contents

1 FP-Motion module
5 Pairs audio relay jumpers

Wiring Instructions

Cat V wiring

All signal and control wires are located in the signal/hanging cable provided with the FP unit speaker wires. A Cat V cable (blue shield) contains the control and power wires; audio wires are individual 16 gauge wires in the bundle.

Power	External controller	LED Light	Speaker
Power ◑ = Brown/White	Contact closure ◑ = Green/White	LED control ◑ = Orange/White	Left in ◑ = White
Power ground ● = Brown	Contact closure ● = Green	LED control ● = Orange	Left in ● = Green
	12v trigger ◑ = Blue/White		Right in ◑ = Red
	Amp control ◑ = Blue	**Amp Control**	Right in ● = Black
		Amp gain ◑ = Blue	
		Amp gain ● = Orange	

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FP Series

⚠ **Warning**

SoundTube speakers must be installed by a professional audio installer/contractor. For safety and for optimum audio performance, installer must follow all directions issued by SoundTube Entertainment.

⚠ **Warning**

Do not spec or install speaker near support beam, ventilation duct or other structure that may interfere with speaker function or dispersion.

FP-Motion | Motion Sensor Settings & Controls

Module Description
The motion sensor is used to trigger actions within the FP product when motion is detected underneath the dome. Potential actions include triggering the FP's 12 V output signal, activating the contact closure, activating an audio stream, turning on an LED lamp (if installed), and triggering an optional ScentAir module (if installed).

To integrate the FP-Light, FP-Amp or FP-ScentAir, refer to those instructions.

Section 1 – Wiring The Speaker

Connect External Power Supply
The motion sensor requires an external power supply rated between 12 V and 18 V (optional SoundTube accessories: AC-PS-1530 and AC-PS-1550). Connect the power supply to the brown/white (+) and brown (-) wires in the Cat V cable.

Connect Contact Closure
To connect the contact closure to an external device, connect the green/white (+) and green (-) wires in the Cat V cable to the corresponding wires in the external device.

Connect 12 V Trigger
To connect the 12 V output signal trigger to an external device (i.e., external audio source), connect the blue/white (+) and brown (-) wires in the Cat V cable to the corresponding wires in the external device. Note: the brown wire is shared with the power ground.
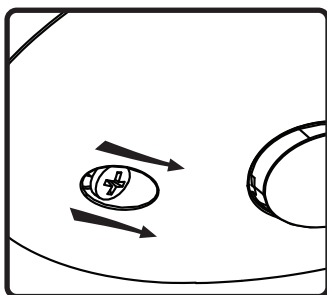
Section 2 – Adjusting the Aperture Lens
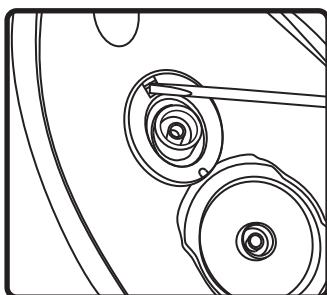
Define the Aperture Setting
The FP-Motion ships with the narrow aperture lens installed as the default, which covers a 3-foot (0.9 m) radius when the dome is hung at 7.5 feet (2.3 m). The wide aperture covers a 6-foot (1.8 m) radius when the dome is hung at 7.5 feet (2.3 m).

Install the Wide Lens Aperture
To install the wide lens aperture, remove the pod cover [1] from the FP pod [2] by loosening the two captured screws [3] on each side (as shown below). The screws will not come out of the cover.
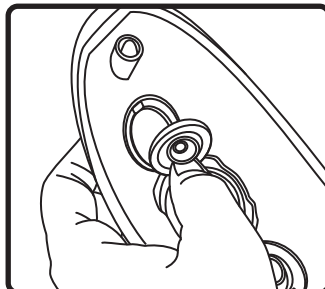

To remove the narrow lens aperture [4], GENTLY press outward on the tab on the inside cover with a small screwdriver while pushing inward on the aperture (as shown below).

CAUTION Using excessive force on the tab will break the tab and ruin the pod cover. To insert the wide lens aperture [5], align the notch on the lens and gently snap it into place by hand (as shown below).

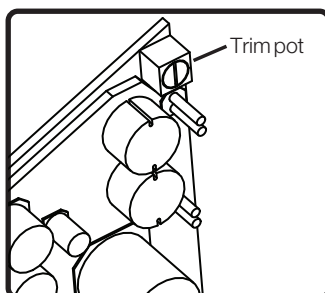### Section 3 – Setting Motion Time Delay

Time Delay Default
The FP-Motion has an instant-on, time-delay-off functionality and ships preset to a 5-second delay off. The delay off can be adjusted manually from 2 – 12 seconds. As long as motion is detected, the module's timer is continuously reset. Once no motion is detected, the delay-off timer is activated.

Adjust the Time Delay Manually
To adjust the time delay, remove the pod cover [1] from the FP pod [2] by loosening the two captured screws [3] on either side. Using a small screwdriver, turn the motion sensor trim pot [6] clockwise to increase time delay and counterclockwise to decrease it.

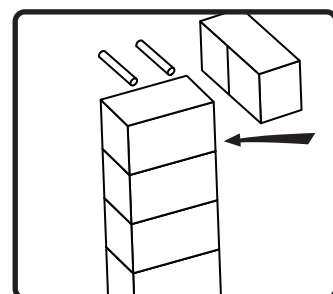### Section 4 – Using The Audio Relay and Continuous Audio

Trim pot

About the On-board Relay
The FP-Motion module ships with a relay board [7] installed which engages the audio path when motion is detected. When there is no motion detected, the audio stream is disabled.

Enable Continuous Audio
If you don't want the FP to disable the audio stream when no motion is detected, then replace the included audio relay board with 5 included jumpers [8] (as shown below). The audio will play continuously whether or not motion is detected.

Section 5 - Replacing The Pod Cover

Replace pod cover [1] and tighten screws [3].