

# **Storm Series**

## **In-Wall Speakers**

A60W/A61W/A62W/A82W/A82SW





www.atonhome.com





#### 1. Introduction

**ATON** Thank you for choosing ATON Storm Series Outdoor speakers. All models were voiced in our sound labs by musicians with years of critical listening experience and crafted for your listening enjoyment. To see the complete line of ATON products, visit us online at **www.atonhome.com**.

**Storm Series** All in-wall models feature 1" pivoting wave guide tweeters, excellent off-axis response, high power handling, custom driver materials, and network components that provide the best price/performance ratio in the industry.

**Storm Series** In-Wall Speakers are available in several configurations - for stereo or Home Theater listening, install two-way models like the A60W, A61W, A62W or A82W. For the bass enthusiast, install a pair of A82W 8" speakers for deep, rich, thumping bass at any volume level! Use A82SW In-Wall Passive Subwoofers for Low-Frequency Effects in a Home Theater. ATON In-Wall Speakers are rated for safe outdoor use, and can be installed on porches, sunrooms and decks to provide amazing sound outdoors, as well.

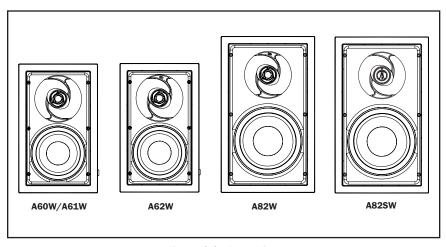


Figure 1.1 - Front View

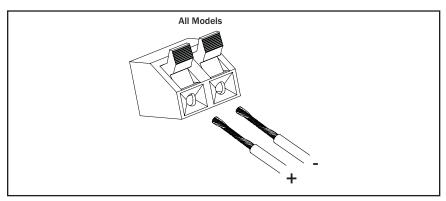


Figure 1.2 - Speaker Terminals



#### 2. System Design/Applications

ATON In-Wall speakers are designed primarily to be installed in wall composed of drywall, but it is possible to install them in other materials. Prior to installation, it is essential to determine the type of application, and, therefore, the placement of the speakers in the wall. There are two typical applications that ATON In-Wall speakers will be used for: **Stereo** and **Home Theater**.

#### Stereo

In areas that have a defined listening area where two speakers will be mounted more or less equidistant from each other, use a stereo setup with left and right speakers each connected to their own channel of a stereo receiver or amplifier. This application provides the best sound quality, staging, and depth possible in areas with a defined listening position. *Figure 2.1* shows an example of a stereo listening area.

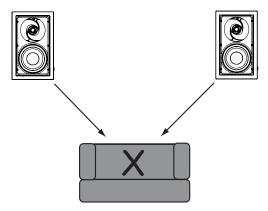


Figure 2.1 - Stereo Application

#### **Home Theater**

ATON IN-wall Speakers provide unobtrusive, high-quality Home Theater sound when installed in the correct locations. It is critical to identify the primary listening position before installation! See *Figure 2.2* for a system design utilizing in-wall speakers with an active subwoofer and *Figure 2.3* for a system design utilizing In-wall speakers and passive in-wall subwoofers (A82SW).



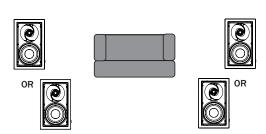


Figure 2.2 - 5.1 Home Theater Application w/ Active Subwoofer



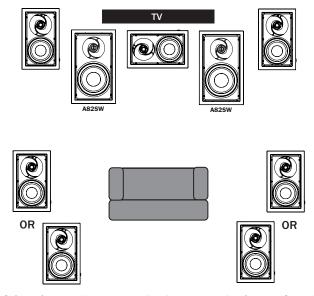


Figure 2.3 - 5.1 Home Theater Application w/ Passive Subwoofers (A82SW)

#### 3. Installation

The Installation process is divided into three distinct processes: **Wiring, Mounting** and **Setting Switches**. After carefully considering the intended application (Defining a Listening Area, Mono/Stereo, Home Theater, etc.), specific mounting locations can be decided upon. Once the specific locations are determined, installation can commence.

#### Wiring

Before actually running any wire or cable, take the time to look around each room or area of the house and plan your wire paths for maximum efficiency. Look for routes through uncluttered parts of the stud wall or ceiling that allow you to group all low-voltage (video, speaker wires, Cat-5, telephone, etc.) wires wherever possible. It is a good practice to label both ends of all cables and to protect wires by tying a plastic bag over the ends.

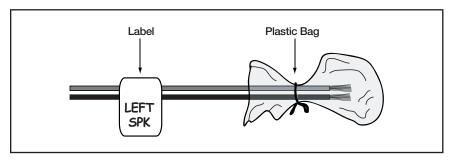


Figure 3.1 - Wiring Label & Plastic Bag



#### Wiring Methodology

There are three common scenarios for connecting speakers to an audio system. *Figure 3.2* to **3.4** show stereo pairs, *Figure 3.5* shows a Home Theater wiring scheme, and *Figure 3.6* shows passive subwoofer wiring. Figure 3-7 depicts the wiring method when using an A82SW Passive Subwoofer and two stereo speakers (Sub/Sat configuration).

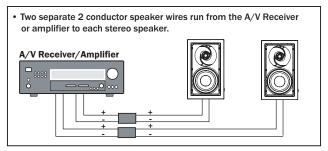


Figure 3.2 - Wiring: Amplifier to Speakers-2 Conductor Direct

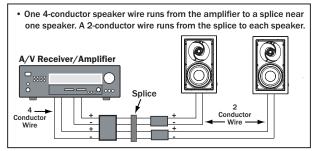


Figure 3.3 - Wiring: Amplifier to Speakers-4 Conuctor to 2 Conductor

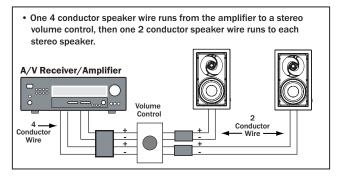


Figure 3.4 - Wiring: Amplifier to Speakers w/ Volume Control



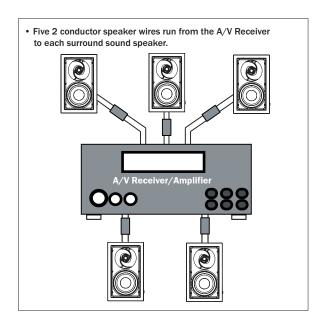


Figure 3.5 - Wiring: Amplifier to Speakers-Home Theater

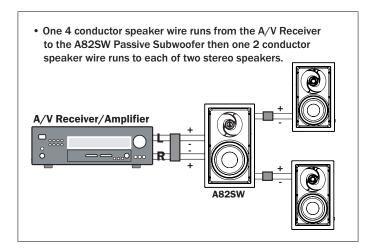


Figure 3.6 - Wiring: Amplifier to Speaker-Passive Subwoofer



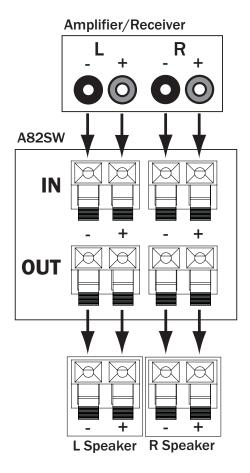


Figure 3.7 - Wiring: Amplifier to Subwoofer to Speakers-A82SW

**Note 1:** Low voltage wiring must be run in accordance with the National Electrical Code as well as any other applicable provisions of the local building codes in your area. In some cases (such as commercial installations), running the wire in conduit may be required. If you have any questions concerning the wiring of speakers in your home, contact your local building and inspection department.

**Note 2:** It is recommended that you use quality CL-2 or CL-3 rated stranded speaker wire when installing ATON speakers. Solid-core "Romex" type wire is not acceptable! Use at least 16AWG speaker wire for runs up to 100 feet, and at least 14 AWG speaker wire for runs up to 200 feet. If you must cross high-voltage lines, always do so at a 90 degree angle to avoid audible hum through the speakers!.

**Note 3:** When pre-wiring for In-wall speakers, it is essential to make direct wire runs from the head-end to each speaker. Do not run speaker wires in series or parallel, and do not "daisy-chain" speakers to common wiring.



#### **Pre-Wiring**

The audio/speaker cable runs should be routed from the head-end location (where the amplifier or A/V Receiver is located) to the speaker rough-in brackets (if used). At the speaker locations, securely fasten the speaker wire to the speaker rough-in bracket. If not using speaker rough-in brackets, staple speaker wire runs in a loose zigzag between the studs where the speaker is to be mounted to make it easier to find the cable after the drywall is installed. Zig-zagging the cable also allows flexibility in the placement of the speaker.

Note: Do not run speaker wires closer than 12" from high voltage wires.

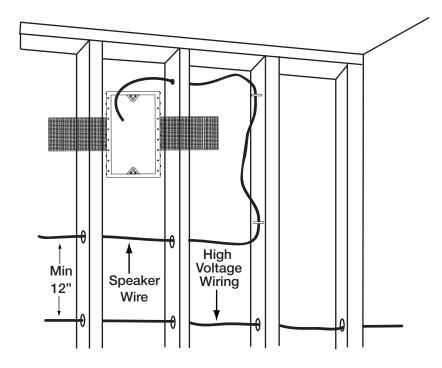


Figure 3.8 - Pre-Wiring

#### Mounting

Two situations that can exist when mounting In-wall speakers:

- Pre-Construction Installations that occur in new homes being built and in remodel situations where walls and/or ceilings will be exposed.
- Retro-Fit Installation that involve existing homes with walls and ceilings finished.

While the end result of either type of installation is similar, the process is quite different.

#### **Pre-Construction**

In a pre-construction installation, walls and ceilings are open with no drywall installed. This is desirable and allows the installer much greater access than in retro-fit applications. ATON model BK6W Rough-In Brackets are specifically designed to work with models A60W, A61W and A62W while model BK8W Rough-In Brackets are designed to work with A82W and A82SW speakers. Rough-in Brackets should be used whenever possible to reserve a neat hole in the drywall, ensuring proper placement of speakers and making trim-out and final installation neat and organized.



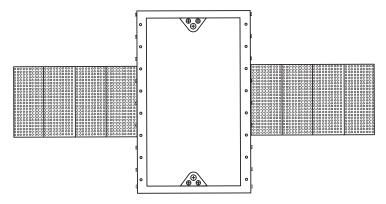


Figure 3.9 - Rough-In Bracket

#### **Mounting Rough-In Brackets**

Once the mounting locations are decided upon, assemble the brackets and secure them to the ceiling joists using flat-head screws or heavy-duty staples (see the ATON Ceiling/In-Wall Rough-In Brackets Manual for detailed steps).

#### Retro-Fit

Retro-fit installations are more difficult to complete than pre-construction because walls and ceilings are intact. Typically wires must be fished into position through walls, floors and ceilings. Holes must be cut and speakers mounted directly in the wall with no rough-in brackets.

Note: Before cutting holes in any existing wall or ceiling surface, probe the cavity behind each speaker's installation location for obstructions!

#### Cutting Speaker Openings in Walls (No Rough-in Brackets)

1. Use a stud finder to locate the studs around the intended speaker location.

Note: A stud-finding device may not detect pipes, wiring, or other obstructions located behind the drywall.

- 2. Use the inside portion of the speaker cutout template (included in packaging) to confirm speaker placement.
- 3. Remove templates and drill or carefully punch a pilot hole in the wall. A bent piece of wire or a coat hanger may be use to probe the stud bay for obstructions. If you experience resistance of any kind-STOP! If any obstructions are detected, patch the pilot hole and try again in another location.

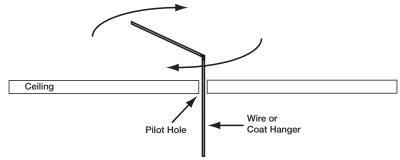


Figure 3.10 -Probe Stud Bay Before Cutting!



- 4. Once it has been determined that the cavity is free from obstructions, position the cutout template and use a pencil to lightly trace the perimeter of the template.
- 5. Cut the opening using a keyhole saw, drywall router, or razor knife.

#### Mounting Speakers in Wall (Pre-Construction or Retro-Fit)

- 1. Remove speaker grille and place speaker face down.
- 2. Locate the speaker wire and pull through the wall opening.
- 3. Connect the speaker wire. BE SURE TO OBSERVE CORRECT POLARITY!
- 4. Insert the speaker into the opening in the wall (or Rough-in Bracket opening) and *carefully* tighten each of the six clamping screws, alternating diagonally between each screw position to ensure proper fit.
- 5. Aim the pivoting tweeter at the listening area.
- 7. Set the **Treble** or **XOVER** switch if applicable. See **Setting Switches** for details.
- 8. Replace the speaker grille.

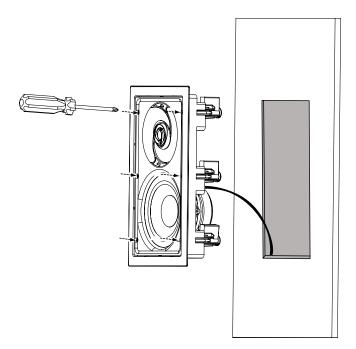


Figure 3.11 - Mounting Speakers In Wall



#### Setting Switches A62W/A82W TREBLE Switch

Once the speakers are wired, mounted, and positioned correctly, use the **TREBLE** switch (if applicable) to fine-tune the speakers based on local environmental variables such as hardwood floors, thick draperies, etc. Select the "+" position to increase Treble response or select the "-" position if no increase is desired.



Figure 3.12 -TREBLE Switch

#### **A82SW XOVER SWITCH**

The Crossover switch adjusts the upper frequency limit of sound that emanates from the sub-woofer. This switch has three positions: 80Hz, 120Hz, and 180Hz. Correctly setting the XOVER level is paramount to a smooth transition between the main speakers and the subwoofer. Setting this switch too low causes a gap to occur in the audio that makes the main speakers seem disconnected from the bass, an audible separation of sound that does not seem natural. Setting the switch too high causes bass to be produced too strongly because of overlapping frequencies between the main speakers and subwwoofer. This causes a "muddy" sound and reduces the overall clarity of the audio.

It is important to experiment with the XOVER switch upon initial setup to obtain the clearest, smoothest sound possible. Try all three settings, and leave the switch in the location it sounds best. See *Figure 3-13*.

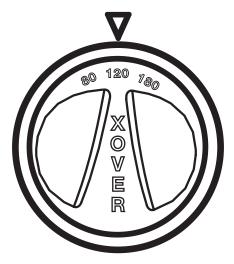
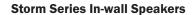


Figure 3.13 -XOVER Switch



### 4. Specifications

A60W	
System Type	
Woofer	
Tweeter	
Crossover	
Impedance	
Sensitivity	
Frequency Response	
Power Handling	
Cutout Dimensions	
Outer Frame Dimensions	
Mounting Depth Pre-Construction Bracket	
Pre-Construction bracket	BN6W
A61W	
System Type	2-Way
Woofer	6-1/2" Polypropylene
Tweeter	1" Pivoting Silk Dome
Crossover	
Impedance	
Sensitivity	
Frequency Response	
Power Handling	
Cutout Dimensions	
Outer Frame Dimensions	
Mounting Depth	
Pre-Construction Bracket	BK6W
A62W	
System Type	2-Way
Woofer	
Tweeter	
Crossover	
Switches	
Impedance	
Sensitivity	91aB
SensitivityFrequency Response	
	34Hz to 20kHz
Frequency Response  Power Handling  Cutout Dimensions	
Frequency Response	
Frequency Response	
Frequency Response	
Frequency Response Power Handling Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket	34Hz to 20kHz 115 Watts 7-1/8" x 12-1/4" (181mm x 311mm) 8-5/8" x 13-13/16" (218mm x 351mm) 3-3/4" (94mm)
Frequency Response. Power Handling. Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket	34Hz to 20kHz 115 Watts 7-1/8" x 12-1/4" (181mm x 311mm) 8-5/8" x 13-13/16" (218mm x 351mm) 3-3/4" (94mm) BK6W
Frequency Response. Power Handling. Cutout Dimensions. Outer Frame Dimensions Mounting Depth Pre-Construction Bracket  A82W System Type.	
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Frequency Response. Power Handling Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket  A82W System Type. Woofer. Tweeter.	34Hz to 20kHz 115 Watts 7-1/8" x 12-1/4" (181mm x 311mm) 8-5/8" x 13-13/16" (218mm x 351mm) 3-3/4" (94mm) BK6W  2-Way 8" Injection Molded graphite (IMG) 1" Pivoting Aluminum
Frequency Response Power Handling Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket  A82W System Type Woofer Tweeter Crossover	34Hz to 20kHz 115 Watts 7-1/8" x 12-1/4" (181mm x 311mm) 8-5/8" x 13-13/16" (218mm x 351mm) 3-3/4" (94mm) BK6W  2-Way 8" Injection Molded graphite (IMG)1" Pivoting Aluminum 12dB/Octave
Frequency Response Power Handling Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket  A82W System Type Woofer Tweeter Crossover Switches	
Frequency Response. Power Handling Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket  A82W System Type. Woofer. Tweeter Crossover Switches. Impedance	34Hz to 20kHz 115 Watts 7-1/8" x 12-1/4" (181mm x 311mm) 8-5/8" x 13-13/16" (218mm x 351mm) 3-3/4" (94mm) BK6W  2-Way 8" Injection Molded graphite (IMG) 1" Pivoting Aluminum 12dB/Octave 2 Position Treble 8 Ohms
Frequency Response Power Handling Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket  A82W System Type Woofer Tweeter Crossover Switches Impedance Sensitivity	34Hz to 20kHz 115 Watts 7-1/8" x 12-1/4" (181mm x 311mm) 8-5/8" x 13-13/16" (218mm x 351mm) 3-3/4" (94mm) BK6W  2-Way 8" Injection Molded graphite (IMG) 1" Pivoting Aluminum 12dB/Octave 2- Position Treble 8-8 0hms 9-2dB
Frequency Response. Power Handling Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket  A82W System Type. Woofer. Tweeter Crossover Switches. Impedance Sensitivity Frequency Response.	34Hz to 20kHz 115 Watts 7-1/8" x 12-1/4" (181mm x 311mm) 8-5/8" x 13-13/16" (218mm x 351mm)
Frequency Response. Power Handling Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket  A82W System Type. Woofer Tweeter Crossover Switches. Impedance Sensitivity Frequency Response. Power Handling	34Hz to 20kHz 115 Watts 7-1/8" x 12-1/4" (181mm x 311mm) 8-5/8" x 13-13/16" (218mm x 351mm) 3-3/4" (94mm) BK6W  2-Way 8" Injection Molded graphite (IMG) 1" Pivoting Aluminum 12dB/Octave 2 Position Treble 8 Ohms 92dB 30Hz to 22kHz 150 Watts
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Frequency Response Power Handling Cutout Dimensions Outer Frame Dimensions Mounting Depth Pre-Construction Bracket  A82W System Type Woofer. Tweeter Crossover Switches Impedance Sensitivity Frequency Response Power Handling Cutout Dimensions	34Hz to 20kHz 115 Watts 7-1/8" x 12-1/4" (181mm x 311mm) 8-5/8" x 13-13/16" (218mm x 351mm) 3-3/4" (94mm) BK6W  2-Way 8" Injection Molded graphite (IMG) 1" Pivoting Aluminum 12dB/Octave 2- Position Treble 8-0 Mms 92dB 30Hz to 22kHz 150 Watts 8-5/8" x 15-3/16" (219mm x 386mm) 10-1/8" x 16-11/16" (257mm x 424mm) 4" (101mm) 4" (101mm)
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