**WARNING:** To reduce the risk of fire or electric shock, do not expose the system to rain or moisture.

**WARNING:** The apparatus shall not be exposed to dripping or splashing, and objects filled with liquids, such as vases, shall not be placed on the apparatus. As with any electronic products, use care not to spill liquids into any part of the system. Liquids can cause a failure and/or a fire hazard.

**CAUTION**

These CAUTION marks are located on the bottom of your 901® active equalizer:

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the system enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle, as marked on the system, is intended to alert the user to the presence of important operating and maintenance instructions in this owner’s guide.

**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, insert fully.

**Note:** Where the mains plug or appliance coupler is used as the disconnect device, such disconnect device shall remain readily operable.

**Additional safety information**

See the additional instructions on the Important Safety Information page enclosed with this owner’s guide.

**Please read this owner’s guide**

Please take the time to follow this owner’s guide carefully. It will help you set up and operate your system properly, and enjoy all of its advanced features. Save your owner’s guide for future reference.

**For your records**

Serial numbers are located on the bottom panel of each 901 speaker and on the back of the active equalizer.

Loudspeaker Serial Numbers: ____________________________

Active equalizer Serial Number: _________________________

Dealer name: ____________________________

Dealer phone: ____________________________ Purchase date: ____________________________

We suggest you keep your sales slip and warranty card together with this owner’s guide.

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Warranty period
The Bose® 901 speakers and active equalizer are covered by a limited 5-year transferable warranty. Details of the warranty are provided on the warranty card that came with your system. Please fill out the information section on the card and mail it to Bose Corporation.

Customer service
For additional help in solving problems, contact Bose customer service. See the inside back cover for Bose customer service offices and phone numbers.
A free booklet is available: Guide to Optional System Connections for Bose 901® Direct/Reflecting® Speaker Systems. Ask for part number 149393.
Setting Up

Before you begin

Thank you for purchasing the Bose® 901® Series VI Direct/Reflecting® speakers. They represent the best in Bose Corporation speaker design and engineering and will give you many years of listening pleasure.

The installation and operating principles of this system are significantly different from those of conventional speakers. To obtain the best possible performance and avoid problems, please take the time to read this guide.

⚠️ CAUTION: You must have a Bose 901 active equalizer for a complete 901 speaker system. The use of 901 Series VI speakers without the 901 Series VI active equalizer will result in improper performance. The use of graphic or parametric equalizers, instead of the Bose 901 equalizer, will result in unsatisfactory performance.

Conventional graphic and parametric equalizers may be used in addition to, but not in place of the Bose 901 active equalizer. However, the use of such additional equalizers is not recommended since it will not improve system performance. For adequate performance you must use the 901 Series VI active equalizer with these speakers.

Unpacking the cartons

A complete Bose 901 Series VI speaker system consists of three matched components: two 901 Direct/Reflecting® speakers and a separate 901 Series VI active equalizer. Two cables are included to connect the active equalizer to your receiver or amplifier. The 901 speakers and equalizer are packed in three separate cartons. Carefully unpack your system, saving all packing materials for possible future use.

Inspect the speakers and equalizer. If any part appears damaged, do not attempt to use the system. Repack the speakers and equalizer in their original cartons and notify your authorized Bose dealer immediately.

Note: Now is a good time to record the serial numbers of each speaker and the active equalizer. Please write them on your warranty card and in the spaces provided on page 2. The serial numbers are located on the bottom of the 901 speakers and on the back of the equalizer.

⚠️ WARNING: Each speaker carton weighs over 35 lb (16 kg). Use good lifting practice to avoid injury.

⚠️ WARNING: To avoid danger of suffocation, keep the plastic bags out of the reach of children.

Figure 1

What comes in the three cartons:

- Two 901 speakers
- One 901 active equalizer
- Two equalizer cables
System Compatibility

Bose® 901® Series VI speakers and Series VI active equalizer work with your stereo components to produce a superb music system. The active equalizer is an integral part of the system and may be connected in a variety of ways, depending on the components you have. The two most common methods are described in this guide. Using different components may require different connection methods. More information is available by calling Bose Corporation. Ask for the free booklet, Guide to Optional System Connections for Bose 901 Direct/Reflecting® Speaker Systems, part number 149393.

Your 901 speakers are designed to work compatibly with receivers or amplifiers rated from 10 to 450 watts per channel. In this guide, the term receiver is used to refer to an integrated preamplifier and power amplifier (which may also contain an AM/FM tuner). The term amplifier is used to describe configurations involving separate preamplifier and amplifier components.

Most receivers have a TAPE MONITOR connection. The 901 active equalizer is most commonly connected to the tape monitor connections on the receiver. If you plan to connect a tape recorder, use the set of inputs and outputs located on the back of the 901 active equalizer marked TAPE RECORDER CONNECTIONS.

If you have recently purchased a home theater receiver, you may be considering using your 901 speakers for the front channels. Your home theater receiver must have accessible PRE AMP OUT/MAIN AMP IN connections for the front channels if you are to use your 901 speakers in this way. These may also be called the ADAPTER or SIGNAL PROCESSOR connections.

Installation steps

Follow these steps, in the order below, to install your 901 Series VI speaker system.

1. Choose the best locations and support for the 901 speakers (page 6).
2. Connect the speakers to the amplifier or receiver (page 8).
3. Connect the 901 active equalizer to the amplifier or receiver using either the TAPE MONITOR or PRE AMP OUT/MAIN AMP IN connections (page 9).
4. Test the system to see that the audio signal is correctly processed by the active equalizer (page 12).
Choosing the location for your speakers

Choose locations for your 901® speakers that use the walls to best advantage by reflecting sound throughout the listening room. Refer to the drawing on page 7.

Guidelines for placement

Place the speakers along the same wall (see Figure 3):

- 4 to 12 feet (1.2 – 3.6 m) apart, with the V-shaped rear of the speaker between 8 and 18 inches (20 – 45 cm) from the rear wall. Do not aim the V toward a corner.
- 18 inches (45 cm) of clear space around the sides, top, and bottom of the speakers.
- at least 2 feet (60 cm) from sound-absorbent furnishings.
- 18 to 48 inches (45 – 120 cm) from the side and rear walls.
- 18 to 36 inches (45 – 91 cm) from the floor or ceiling. Do not place the speakers exactly halfway between floor and ceiling.

Within these guidelines, remember that the closer the speakers are placed to a reflective surface, like a wall, the more bass is reproduced.

Choose the support for your speakers

You may place 901 speakers on a table or shelf. You may also use Bose® floor pedestals, or suspend the speakers from your ceiling. Refer to Figure 3 on page 7.

To set the speakers on a table or shelf

Although each speaker weighs 35 lb (16 kg), a suitable shelf or table must be able to support 140 lb (64 kg). Keep an adequate distance between the speakers and the rear wall as listed in “Guidelines for placement” above.

To stand the speakers on the floor

Use only Bose pedestals (PS-6) as floor stands. They are designed to provide the proper support and are available through your authorized Bose dealer. Please read the pedestal attachment instructions before making any speaker connections. Four pilot holes on the bottom of each speaker (see Figure 2, hole set A) are pre-drilled for the purpose of anchoring the speaker to the pedestal.

To suspend the speakers from the ceiling

Use these guidelines to ensure safe suspension of your 901 speakers. Three steel support chains are recommended. We cannot specify the ceiling attachments. The type to use depends on the type of building construction.

CAUTION: Do not mount on surfaces that are not sturdy enough, or that have hazards concealed behind them, such as plumbing or electrical wire. If you are unsure of your ability to install these speakers, contact a qualified professional installer.

Note: The speakers hang in an inverted position, with the terminal connections facing up. Carefully rotate the Bose logo 180° (so it appears right side up) before hanging the speakers.

Figure 2
Pedestal (A) and ceiling mount (B) pilot holes
Setting Up

Hardware needed for ceiling suspension

- Screw hooks support the chains at the ceiling. They must have at least a #10 wood thread with a shank diameter of at least \( \frac{3}{16} \) inch (4.5 mm). They should be long enough to go through any plasterboard and still have at least one inch (25 mm) of thread left to penetrate a wood beam. For a masonry ceiling: use only high-quality metal expansion masonry anchors that fit the thread of the ceiling hooks.

- Chain: diameter should be at least \( \frac{5}{32} \) inch (0.135 in. or 4 mm).

- Screw eyes with S hooks attach chains to the speaker and must have at least a #10 wood thread with a shank diameter of at least \( \frac{3}{16} \) inch (4.5 mm) or larger.

- All hardware (screw hooks, chain, screw eyes, S hooks) must have a manufacturer’s safe-load rating of 40 lb (18 kg) or more.

General notes on ceiling suspension

- Suspend the speakers 18 – 36 inches (45 – 91 cm) from the ceiling; do not mount them flush to the ceiling.

- To ensure an accurate stereo image, the distance from the floor should be three to ten feet (1 – 3.5 m). Be sure the speakers are no less than 18 inches (45 cm) from the floor. Do not suspend the speakers exactly halfway between the floor and ceiling.

Note: If the speakers are more than 10 feet (3 m) from the floor, we suggest you lengthen the chain supporting the rear of the speaker. By doing this you will allow the rear of the speaker, housing eight of the nine drivers, to be angled slightly downward.

Step by step procedure for ceiling suspension

1. Ceiling: Anchor at least two screw hooks into a rigid structural ceiling support (beam, joist, or masonry anchor). Drill pilot holes into wood using \( \frac{1}{8} \) inch drill bit (3.7 mm), if necessary.

2. Speaker: Use the three pre-drilled pilot holes (see Figure 2 - hole set B) on the bottom of each speaker. Use a \( \frac{1}{8} \) inch drill bit (3.7 mm) to enlarge the pilot holes to accept the #10 thread screw eyes. Drill to a depth of \( \frac{3}{8} \) inch (12 mm) in the speaker cabinet. Do not drill completely through the cabinet.

Note: Contact Bose® for more information on suspending speakers. See the inside back cover for phone numbers. For details on your specific ceiling construction, consult a qualified building contractor or professional installer.

Figure 3
Mounting guidelines

![Mounting guidelines diagram]
**Setting Up**

**Speaker connections**

With your speakers in their chosen locations, connect them to the receiver.

**Choosing the wire**

It is important to use the right thickness of speaker wire. For distances of up to 30 feet (9 m), 18 gauge (.075 mm²) 2-conductor wire works well. For distances greater than 30 feet (9 m), refer to the wire recommendations chart on page 18.

*Note:* To determine if this wire is suitable for use in a wall or under a floor, check your local building codes. You may want to contact a qualified electrical installer for this information.

**Preparing the speaker wires**

Examine the speaker wire. Note that it is actually a pair of insulated wires that may be gently pulled apart. The insulation around one wire is marked with a stripe, collar, rib, groove, or printing. Use the marked wire as positive (+) and the unmarked wire as negative (−). These wires correspond to the positive and negative terminals on the speaker and receiver.

*Note:* It may be difficult to distinguish wire markings. Inspect both wires carefully.

To prepare the ends of each wire:

1. Strip approximately 1/2 inch (12 mm) of insulation from both wires.
2. Twist the bare ends of each stranded wire, to prevent strands from touching across terminals.

**Connecting the speakers**

⚠️ **CAUTION:** Before making any connections, turn off your receiver and unplug it from the AC (mains) power outlet. Not doing this may result in damage to your system.

Speaker terminals are located on the bottom of each speaker. Unscrew the knurled nut on each terminal and remove one washer. Wrap one bare wire end around the terminal post. Then, replace the metal washer on the screw post and screw the knurled nut firmly back on.

1. Connect one wire pair to the right speaker (the one on your right as you face it).
   a. Attach the marked wire at one end to the positive (+) terminal.
   b. Attach the plain wire at that end to the negative (−) terminal.
2. Connect the other ends of the same wire pair to the RIGHT SPEAKER OUTPUT of your receiver.
   a. Attach the marked wire to the positive (+) terminal.
   b. Attach the plain wire to the negative (−) terminal.
3. Following the steps above, connect the second pair of wires to the left speaker and to the LEFT SPEAKER OUTPUT on the receiver.

*Note:* If your receiver offers a choice of output impedances, use the terminal marked 8 or 8 ohms.
**Checking the speaker connections**

Make sure the terminal knurled nut is tightened down firmly. Any gap between the wire and terminal can cause heat build up. Check to be sure the wires are connected positive to positive (+ to +) and negative to negative (- to -). Make sure no loose strands of wire touch across terminals, which can cause short circuits.

**Figure 4**
Connecting the speakers to the receiver

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**Equalizer Connections**

There are two options for connecting the equalizer. Your choice depends on the type of receiver you own and whether you plan to use the system primarily for stereo or for home theater enjoyment.

**Stereo/non-home theater use (tape monitor connections)**

The Bose® 901® active equalizer connects directly to your receiver through the tape monitor connection. If your receiver has more than one tape connection, use the second one (TAPE 2). To connect a tape deck, use the additional set of inputs and outputs located on the back of the 901 active equalizer marked TAPE RECORDER CONNECTIONS.

The TAPE MONITOR switch on the front of the receiver lets you switch the equalizer in and out of the signal path. This is important when you want to play conventional, non-equalized speakers or headphones attached to your receiver. See Using other equipment on page 13.

**Note:** If your receiver is designed for home theater use, it may not have a Tape Monitor switch. If not, you must use a PRE AMP OUT/MAIN AMP IN connection. This may also be called the ADAPTER or SIGNAL PROCESSOR connection. Refer to "Home theater use (PRE AMP OUT/MAIN AMP IN)" on page 10 for instructions on how to connect for home theater use.

1. Disconnect any external tape deck or signal processor connected to the tape monitor connection.
2. Use the twin cable assemblies (with two connectors at each end) that are supplied with the equalizer. Use the red connector for the right (R) channel connections and the other connector for the left (L) channel connections.
3. Connect one end of a cable to the AMPLIFIER INPUT jacks on the 901® active equalizer.
   a. Insert the first connector firmly into the INPUT jack marked R.
   b. Insert the second connector into the INPUT jack marked L.
4. Connect the other end of the cable to the OUT or RECORD jacks on your receiver. These jacks may be marked TO INPUT, FROM INPUT, or REC.
   a. Insert the first connector into the OUT or RECORD jack marked R.
   b. Insert the second connector into the OUT or RECORD jack marked L.
5. Connect the second cable from the AMPLIFIER OUTPUT jacks on the 901 active equalizer to the IN or TAPE jacks on your receiver. These jacks may be marked PLAY, TO OUTPUT, FROM OUTPUT, or MONITOR.
6. Plug the power cord of the 901 active equalizer into one of the switched outlets on the receiver so that it will be powered when the receiver is switched on.

![Figure 5](image1.png)

**Figure 5**
Connecting to the tape monitor connection

![Figure 6](image2.png)

**Figure 6**
Removing horseshoe pins

### Home theater use
(PRE AMP OUT/MAIN AMP IN)

Use these instructions:
- for stereo-only operation if your receiver does not have a TAPE MONITOR connection.
- if you are using a surround sound receiver that has a section on the back marked PRE AMP OUT/MAIN AMP IN. The jacks may be labeled ADAPTER or SIGNAL PROCESSOR.

**Note:** If your receiver does not have this PRE AMP OUT/MAIN AMP IN section, the 901 speakers will not be usable in your home theater system.

1. The PRE AMP OUT/MAIN AMP IN jacks on your receiver are usually connected by small bars called horseshoe pins. Remove these pins. See Figure 6.
2. Use the twin cable assemblies (with two connectors at each end) that are supplied with the equalizer. Use one connector for the right (R) channel connections and the other connector for the left (L) channel connections.

3. Connect the amplifier INPUT of the Bose® 901® active equalizer to the PRE AMP OUT jacks of the receiver or amplifier. Connect right channel to right channel and left to left.

4. Connect the amplifier OUTPUT of the active equalizer to the MAIN AMP IN jacks on the receiver or amplifier. Connect right channel to right channel and left to left.

5. Plug the power cord of the 901 active equalizer into one of the switched outlets on the receiver so that it will be powered when the receiver is switched on.

**European systems only**

901 active equalizers in Europe include a small AC power switch on the back of the System, to the right of the power cord. When your 901 system is connected to an AC power outlet, you can use that switch to turn off power to your system to conserve electricity.

**Note:** This connection method does not allow you to connect a tape deck directly to the active equalizer. Connect it to the receiver instead.

Check to see that the 901 speakers are connected to the receiver MAIN or FRONT speaker jacks. In this way the 901 active equalizer signals will reach only the 901 speakers – the front channels of your home theater – and not any non-901 speakers used as center and surround channels.

Call Bose Corporation for assistance with the connection of additional speakers or signal processing equipment. Refer to the address information inside the back cover of this guide.

A free booklet is available (USA only): *Guide to Optional System Connections for Bose 901 Direct/Reflecting® Speaker Systems.* Ask for part number 149393.
Setting Up

Testing the speakers and equalizer

Choose the test method appropriate to your system:

To test the TAPE MONITOR connection

1. Turn off or disconnect any non-901 speakers or headphones that may be connected.
2. On the 901® active equalizer, press the MONITOR button IN to TAPE, and the BASS button OUT to position 1.
3. Set the MID-BASS and MID-TREBLE sliders to center positions.
4. Press your receiver or amplifier TAPE or TAPE MONITOR button to the OUT or NORMAL position so it is not selected.
5. Play music through your system. You should hear both speakers. Do not worry about the sound quality at this point. The equalizer is not yet engaged. If there is no sound from one or both speakers, check the receiver and speaker connections.
6. Move the receiver BALANCE control to the extreme left and then to the extreme right. This tests the left and right channel orientation. If the channels are reversed, check the connections.

To test the equalizer

You have now tested your speakers and their wiring. The following steps test the equalizer and its wiring:

1. With the speakers playing, press the receiver TAPE or TAPE MONITOR button IN, selecting the PLAY or MONITOR position. All sound should stop. If it does not, check your equalizer wiring. Be sure the 901 active equalizer MONITOR button is set to position 2 (TAPE).
2. Press the 901 active equalizer MONITOR button to SOURCE, position 1. The sound should return with full, natural sound characteristics. The system is now ready for use. If the sound does not return, and the equalizer power indicator is lit, the equalizer is probably connected incorrectly. Review equalizer connections.

To test the PRE AMP OUT/MAIN AMP IN connection

If you have connected the 901 active equalizer to the PRE AMP OUT/MAIN AMP IN connection, follow these instructions to test the speakers, equalizer, and wiring before connecting any other equipment to your system.

1. Turn off or disconnect any non-901 speakers or headphones that may be connected. If your system has a speaker selector switch, set it so that only the 901 speakers are connected to your power amplifier.
2. On the 901 active equalizer, press the MONITOR button OUT to SOURCE, and the BASS button OUT to position 1.
3. Set the MID-BASS and MID-TREBLE sliders to center positions.
4. Play music through your system. You should hear both speakers. If there is no sound from one or both speakers, check to see that the power indicator on the equalizer is lit, then check the receiver and speaker connections.
5. Move the receiver BALANCE control to the extreme left and then to the extreme right. This tests the left and right channel orientation. If the channels are reversed, check the connections.

6. Turn off the receiver and temporarily unplug the 901® active equalizer from its AC (mains) power outlet.

7. Turn your receiver back on. You should not hear any music through the system. If you do, the equalizer is probably connected incorrectly. Check the equalizer connections.

8. Turn off the receiver before restoring AC power to the 901 equalizer. Plug the equalizer back in to its AC outlet. The system is now ready for use.

**Using other equipment**

You can use the Bose® 901 active equalizer TAPE CONNECTION jacks for a tape deck, VCR audio connection, signal processors, or other components. This will be necessary if your receiver has only one tape connection and you have connected the equalizer to it. If you connected the equalizer to the receiver’s TAPE 2 connection, you can use TAPE 1 for these components.

Before making any connections, turn off the receiver and components. Be sure the active equalizer power indicator is off.

**To add a tape deck or VCR:**

1. Use cables with RCA connectors at each end. One color (usually red) is for right (R) channel connections and the other connector is for left (L) channel connections.

2. Connect the TAPE RECORDER OUTPUT of the equalizer to the LINE IN/REC of the tape deck. Connect right channel to right channel and left channel to left channel.

3. Connect the TAPE RECORDER INPUT of the equalizer to the LINE OUT/PLAY of the tape deck. Connect right channel to right channel and left channel to left channel.

**Note:** To use an external signal processor, or to add a graphic equalizer, contact Bose for more information. Refer to the inside back cover of this guide.

A free booklet is available (USA only): *Guide to Optional System Connections for Bose® 901® Direct/Reflecting® Speaker Systems.* Ask for part number 149393.

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**Figure 8**
Connecting a tape deck to the 901 active equalizer
Playing your speakers

Always use the 901® active equalizer when playing your 901 speakers. How you set the equalizer depends on how it is connected to your receiver.

**When connected to TAPE MONITOR**

Press your receiver TAPE MONITOR button to the IN or MONITOR position. This switches the equalizer into the system. Check periodically to be sure the TAPE MONITOR is engaged. On some receivers the button may be labeled RECORD SELECT or RECORD OUT.

To play a tape deck connected to the equalizer, press the MONITOR button on the equalizer IN (TAPE, position 2).

Return the MONITOR button to OUT (SOURCE, position 1) to listen to components other than the tape deck (CD player, radio, etc.).

⚠️ **CAUTION:** Do not use the active equalizer with conventional, non-equalized speakers or headphones. This can produce unnatural sound, and can even damage some non-901 speakers. Before you play any non-901 speakers, be sure the receiver TAPE MONITOR button is OFF (OUT or NORMAL).

You can play a tape deck through conventional, non-equalized speakers, even if your receiver has only one tape monitor connection. Follow these steps to do this:

1. Connect the tape deck outputs to the AUX input jack on your receiver.
2. Leave the inputs of the tape deck connected to the TAPE OUTPUT jacks on the 901 active equalizer.
3. Press the receiver TAPE MONITOR to OFF (OUT or NORMAL). This allows you to record disc and radio sources. You may also play any program source (including tape) with or without 901 equalization.

**Note:** This arrangement works only with tape decks. Do not use it with any type of signal processing device.

**When connected to PRE AMP OUT/MAIN AMP IN**

1. You must leave the MONITOR button on the 901 active equalizer OUT (SOURCE, position 1) at all times.
2. Do not connect tape decks to the 901 active equalizer when it is connected to this amplifier connection. Connect the tape deck to the receiver or amplifier TAPE MONITOR connection or AUX inputs.
3. The power amplifier is always receiving the 901 active equalized signal. This signal can damage conventional speakers and headphones. Therefore, do not connect conventional speakers or headphones unless you have disconnected the 901 equalizer.

Do not connect tape decks or signal processing devices to the 901 active equalizer when it is connected between the preamplifier and main amplifier.
Adjusting the sound

Adjust the sound using the MID-TREBLE and MID-BASS sliders and BASS control on the 901® active equalizer. Use the tone controls on your receiver only after the MID-TREBLE and MID-BASS sliders have been set according to the procedures below.

**Using the MID-TREBLE and MID-BASS sliders**
These controls let you make adjustments to compensate for the effects of speaker location, room acoustics, and program quality.

1. Select a familiar musical piece.
2. Set your receiver tone controls to the center (flat) position. If it has a loudness compensation control (marked LOUD or LOUDNESS), set it to the OFF or OUT position.
3. Set the MID-TREBLE slider on the equalizer to its center position.
4. Play the selected music through the 901 speakers at normal volume. Move the MID-BASS slider back and forth several times and listen to the effect. You should hear a significant change in the fullness of the sound. If you do not, the active equalizer may not be engaged. Refer to *Playing your speakers* on page 14.
5. When you are familiar with the effect of the MID-BASS slider, set it to the extreme left. Start the musical passage again and slowly advance the MID-BASS slider to the right until the sound is rich and full, without excessive heaviness.
6. Replay the musical passage, this time moving the MID-TREBLE slider back and forth to become familiar with its effect. You should hear a significant change in clarity of the sound.
7. Set the MID-TREBLE slider to the extreme left and play the passage again. Slowly advance the MID-TREBLE slider to the right until the sound is clear and detailed without excessive shrillness.

**Using the BASS control**
The Bass control provides an alternate bass equalization. It is not a bass enhancement switch, and it is not intended to boost the bass output of the speakers.

Press the BASS control IN (to position 2) to engage an alternate form of equalization that changes the way the speakers handle low-frequency information. For example, you may prefer pipe organ music with the alternate equalization. The control can also be useful in eliminating feedback or rumble from a turntable.
Using Your 901® Series VI Speaker System

Equalizer compatibility

The Bose® 901® Series VI active equalizer is designed for specific use with Bose 901 Series VI speakers. It may also be used with 901 Series V speakers.

⚠️ WARNING: Bose 901 Series I, II, III, or IV speakers require a substantially different equalization. The 901 Series VI active equalizer must not be used with Series I – IV speakers. For additional information on the active equalizer, please contact Bose Service.

Connecting additional speakers

The type of speakers and how you will use them determines how many amplifiers and 901 active equalizers you will need.

To run other non-901 speakers simultaneously requires the addition of a second amplifier. To use other speakers simultaneously with the 901 speakers requires the ability to isolate the 901 active equalizer signal so that it affects only the 901 speakers.

Adding 901 speakers

You need just one 901 Series VI active equalizer to use a second pair of 901 Series VI speakers connected to a single receiver or amplifier. Connect the additional speakers to the additional speaker output jacks on the receiver or amplifier.

To use extra 901 speakers in a four channel or time-delay music system, you will need a separate 901 active equalizer for each pair of speakers.

Adding conventional speakers

You need a separate power amplifier to play conventional speakers at the same time as 901 speakers. Connect the 901 active equalizer to the amplifier that drives the 901 speakers only.

⚠️ CAUTION: Make sure the conventional speakers do not receive signals from the 901 active equalizer.

Call Bose Corporation for assistance with the connection of additional speakers or signal processing equipment. Refer to the address information on the inside back cover of this guide.

A free booklet is available (USA only): Guide to Optional System Connections for Bose 901 Direct/Reflecting® Speaker Systems. Ask for part number 149393.
Cleaning your speakers

If your 901® speakers have a painted surface, clean with a soft damp cloth. If necessary, use a mild detergent such as dish soap. If the speakers have a wood veneer finish, clean them with wood furniture polish. You may vacuum the speaker grille panels carefully, if necessary. Do not use any sprays near the system. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives. Do not allow liquids to spill into any openings.

Troubleshooting

If you have a problem with your 901 Series VI speakers or 901 active equalizer, turn off the receiver or amplifier before you proceed. Then check all the connections between the speakers, receiver, and active equalizer. Correct any wiring problems before you follow the guidelines below. Problems are more likely to originate with equipment other than speakers, so you may also want to refer to your receiver or other component owner’s guides.

<table>
<thead>
<tr>
<th>Problem</th>
<th>What to do</th>
</tr>
</thead>
<tbody>
<tr>
<td>One speaker sounds defective, or does not play</td>
<td>• Do not switch the wires; this could damage a speaker. Turn off the amplifier and disconnect the defective speaker wire at the amplifier. Reconnect it to the other channel. If the speaker now plays correctly, the problem is not in the speaker or wiring.</td>
</tr>
<tr>
<td>Neither speaker plays</td>
<td>• Connect the speakers to another receiver or amplifier that is known to be operating properly. If the speakers now play correctly, the problem is not in the speakers. Note that the tonal balance of the 901 speakers will be incorrect if the 901 active equalizer is not being used with this second receiver or amplifier.</td>
</tr>
<tr>
<td>The high and low frequencies seem weak</td>
<td>• Check to be certain that the 901 active equalizer is in the circuit. Review the Playing your speakers section of this guide on page 14.</td>
</tr>
<tr>
<td>You hear distortion at high volume levels</td>
<td>• Try turning down the volume. If the distortion goes away you may be using an insufficiently powered receiver or amplifier.</td>
</tr>
<tr>
<td>The trouble seems to be in the 901 active equalizer</td>
<td>• Bypass the equalizer to see if the system operates properly without it. (Speakers will not have any highs or lows.) Check to see that all connections are correct and that none of the cables is defective.</td>
</tr>
<tr>
<td>Trouble persists in the speakers or equalizer</td>
<td>• Contact your authorized Bose® dealer to verify any defects and arrange for service by a factory authorized agency or by the Bose factory. Bose Corporation will make every effort to remedy any problem within the terms of the warranty.</td>
</tr>
</tbody>
</table>
Product Information

Technical information

Bose® 901® Series VI Direct/Reflecting® Loudspeakers

Transducer complement
Nine (9) 4/" (11.4 cm) full-range Helical Voice Coil drivers in each cabinet

Energy dispersion
89% by reflection
11% by direct radiation

Enclosure
14-element Acoustic Matrix™ enclosure with three reactive air columns

Nominal impedance
8Ω (ohms)

Amplifier compatibility
Compatible with amplifiers/receivers rated from 10 - 450 watts RMS.
Rated 250 watts IEC

Recommended fusing
Series connected 3A quick-acting fuse
Buss AGC-3, Littelfuse 312-003, or equivalent

Cabinet
Oil-rubbed hardwood veneer with walnut finish
Black vinyl veneer

Dimensions
21”W x 12”,H x 13”D
(53.3 x 32.0 x 33.0 cm)

Weight
35 lb. (16 kg) per enclosure

Wire recommendations

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 (0.75 mm²)</td>
<td>30 ft (9 m) maximum</td>
</tr>
<tr>
<td>16 (1.5 mm²)</td>
<td>45 ft (14 m) maximum</td>
</tr>
<tr>
<td>14 (2.0 mm²)</td>
<td>70 ft (21 m) maximum</td>
</tr>
</tbody>
</table>

901 Series VI active equalizer

Input Impedance
47 k ohms (47 kΩ)

Output Impedance
1 k ohm

Usable dynamic range
106 dB @ 35 Hz

Noise (A-weighted)
Greater than 90 dB below 1 volt

Distortion
Less than 0.09% THD at 1 kHz, 1 V input

Compensation controls
Mid-Bass, ±6 dB @ 225 Hz
Mid-Treble, ±6 dB @ 3 kHz

Bass Switch
– 6 dB @ 35 Hz

Power Requirements
120V ~ 50/60Hz, 3.5W
220-240V ~ 50/60Hz 3.5W
100V ~ 50/60Hz 3.5W

Cabinet
Black anodized aluminum

Dimensions
13”W x 2”,H x 5”D
(33.0 x 7.0 x 12.7 cm)

Weight
3.4 lb (1.5 kg)

Accessories

To find out about PS-6 floor pedestals, contact your Bose dealer. Or call Bose directly (see inside back cover for phone numbers).