

# jWIN<sup>®</sup>

## Home Theater Speaker System

### JS-P701

**jWIN**

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## Instruction Manual

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## SAFETY PRECAUTIONS

**WARNING:** To prevent fire or shock hazard, do not expose this appliance to rain or moisture.



These markings are located on the bottom, side or back of the unit.

**CAUTION:** To prevent the risk of electric shock, do not remove cover (or back). Non- user-serviceable parts inside. Refer servicing to a service professional.

The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to a person.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating, maintenance and servicing instructions in the literature accompanying the appliance.

Dripping warning: "This product shall not be exposed to any dripping or splashing, and no objects filled with liquids, such as vases, shall be placed on or near the product."

Ventilation warning: "The normal ventilation of the product shall not be impeded for intended use."

Note: Minimum distances must be kept around the apparatus for sufficient ventilation, especially while use of the apparatus is in tropical and/or moderate climates.

## IMPORTANT SAFETY INSTRUCTIONS

1. **READ INSTRUCTIONS** - All the safety and operating instructions should be read before the appliance is operated.
2. **RETAIN INSTRUCTIONS** - The safety and operating instructions should be retained in a secure place for future reference.
3. **HEED WARNINGS** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **FOLLOW INSTRUCTIONS** - All operating and use instructions should be followed.
5. **WATER AND MOISTURE** - The appliance should not be used near water. For example: near a bathtub, kitchen sink, laundry tub, and swimming pool or even in a wet basement.
6. **VENTILATION** - The appliance should be situated so that its location and position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug or similar surface that may block the ventilation openings; or, be placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
7. **HEAT** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
8. **POWER SOURCES** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
9. **GROUNDING AND POLARIZATION** - Precautions should be taken to ensure that the grounding or polarization of the appliance is correct.
10. **POWER CORD PROTECTION** - Power supply cords should be routed so that they are not likely to be walked on or obstructed by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the appliance.

## SAFETY PRECAUTIONS

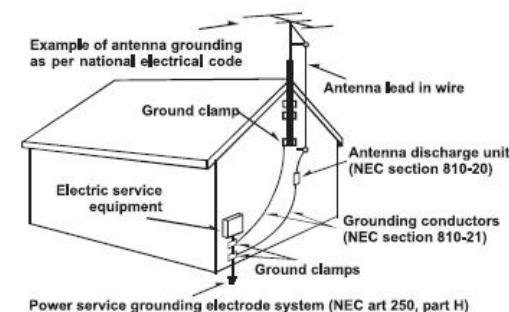
11. **CLEANING** - The appliance should be cleaned only as recommended by the manufacturer.
12. **POWER LINES** - An outdoor antenna should be located away from power lines.
13. **NONUSE PERIODS** - The power cord of the appliance should be unplugged from the outlet when the appliance is to be left unused for an extended period of time.
14. **OBJECT and LIQUID ENTRY** - Care should be taken so that objects do not fall and liquids are not spilled into the device's openings.
15. **CARTS AND STANDS** - The appliance should be used only with a cart or stand that is recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART  
WARNING



S3125A

16. **WALL OR CEILING MOUNTING** - If the appliance is mounted to a wall or ceiling, it should be mounted only as recommended by the manufacturer.
17. **DAMAGE REQUIRING SERVICE** - The appliance should be serviced by qualified service professional when:
  - a. The power-supply cord or plug has been damaged.
  - b. Objects have fallen into, or liquid has been spilled into the appliance's apertures.
  - c. The appliance has been exposed to rain.
  - d. The appliance has been dropped and suffered damage.
  - e. The appliance does not appear to operate normally or exhibits a marked change in performance.
18. **SERVICING** - The user should not attempt to service the appliance beyond that described in the user's operating instructions. All other servicing should be referred to qualified service professional.
19. **OUTDOOR ANTENNA GROUNDING** - If an outside antenna is connected to the receiver, be sure that the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



20. **PROTECTIVE ATTACHMENT PLUG** - The appliance is equipped with an attachment plug that has an overload protection. This is a safety feature. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug. (UK Version Only)

## INTRODUCTION

Your JS-P701 RF 2.4GHz Wireless<sup>1</sup> Digital 5.1-Channel Home Theater System is an advanced speaker system capable of being connected to any sound system. Although it is primarily intended to receive audio signals from devices with 5.1-Channel audio outputs, typically Dolby or DTS (Digital Theater System), found in certain DVD players, personal computers (PCs) equipped with "5.1-channel audio" sound, and even some stand alone game consoles. With such "5.1" devices connected to your JS-P701, you can experience surround sound through its five "satellite" speakers (left front, center front, right front, left rear, and right rear), placed throughout the listening room, along with a LFE (low frequency effects) channel (the ".1" in "5.1"), whose deep bass output is sent to a subwoofer capable of reproducing it. Refer to Figure 1 below.

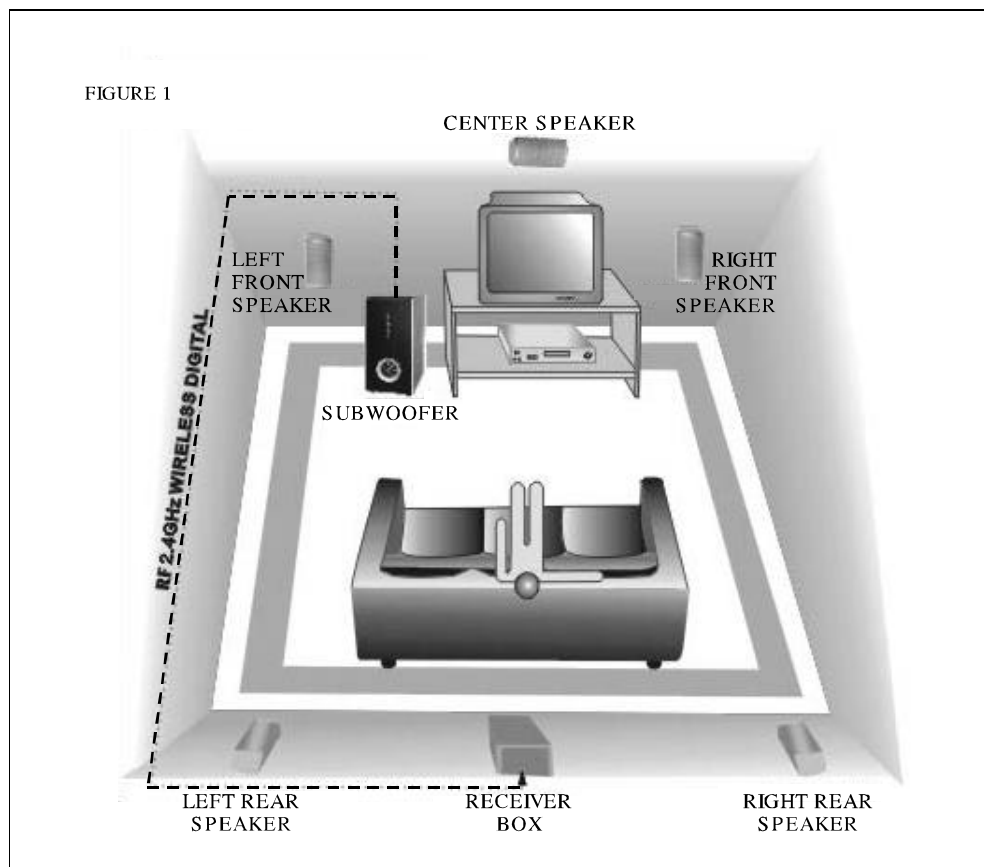


FIGURE 1

<sup>1</sup> The JS-P701 is not completely wireless and relies on wired connections between the three front speakers and the subwoofer, and wired connections between the two rear speakers and the Receiver Box. Refer to Figures 1 and 2 for additional clarity.

## INTRODUCTION

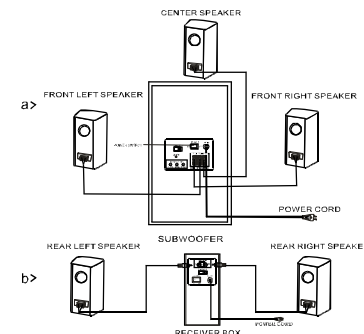


Figure 2

The units in the JS-P701 communicate with each other through a combination of wiring and radio frequency (wireless) signals. Figure 2 illustrates this relationship, showing the supplied wireless receiver box centered between the rear speakers. A wireless transmitter located within the subwoofer sends the audio intended for the left and right rear speakers to the receiver box.

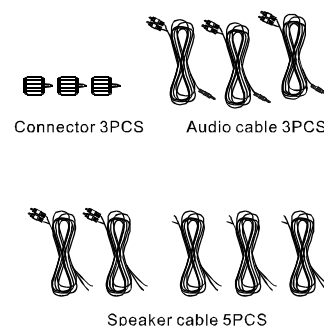
Note that all five of the satellite speakers are identical and are magnetically shielded to prevent them from adversely affecting nearby electronic equipment.

## COMPATIBILITY

As mentioned above, the JS-P701 will provide optimal operation when supplied with 5.1-Channel audio (typically Dolby or DTS) found in certain DVD players and in some PC's. In addition, it is also compatible with the following audio configurations:

- 2-Channel (Stereo) Audio (includes units that play CD's, MP3's, VCD's (Video CDs) and all other standard stereo sources (including stereo from a PC, a stereo cassette tape deck, etc.)
- 4.1 channel decoders that provide Dolby 4.1 surround sound
- Any other audio sources that can supply the actual or imitated effects of the 5.1-Channel sound (e.g. the output of a Dolby Pro Logic or Pro Logic II decoder)

## WHAT'S IN THE BOX?



Before beginning, check that your JS-P701 has been furnished with the following:

- Satellite speakers (for front, center front, right front, left rear and right rear placement)
- Sets of speaker twin-leads (with bare ends), each measuring 3 meters (about 10 feet)
- Sets of speaker twin-leads (one side with bare ends, the other with an RCA phono plug), each measuring 3 meters (about 10 feet)
- Subwoofer assembly with front-mounted volume controls and an attached AC power cord
- Receiver box with an attached AC power cord
- Audio cables, each with 2 RCA phono plugs (white and red) on one end, and a single 3.5mm (1/8 inch) stereo plug (green) on the other end
- Audio adapters, which convert two single-channel RCA cables to a single 3.5mm stereo plug

Each of the above will be called upon for use in your installation.

Note: The "3.5mm stereo plugs" mentioned throughout these instructions are also known as "1/8 inch" stereo plugs. For all practical purposes, these designations are identical to each other and can be used interchangeably. For uniformity, we will refer to such plugs as "3.5mm stereo plugs".

## INSTALLATIONS

### BEFORE MAKING ANY CONNECTIONS

1. Be sure that the AC power cord on both the subwoofer and receiver box are not connected to an electrical outlet.
2. Be sure that the 110V/220V slide switch on the rear of the subwoofer and the receiver box are in the proper position. If necessary, move the slider with the tip of a screwdriver so that the proper voltage is uncovered by the slider, and appears within the switch's cavity. If you do not know the proper voltage, contact your power distribution company.
3. Be sure that the POWER switch on the rear of the subwoofer assembly is pressed so that in the OFF [0] position is selected.
4. Be sure that all four controls on the front of the subwoofer assembly are turned fully counterclockwise (CCW).

### STEP 1: LOCATING THE SPEAKERS, SUBWOOFER, AND RECEIVER BOX

1. Refer to Figure 1.
2. Place the 5 satellite speakers in your listening room in the manner depicted in the figure. Each speaker should be located at or below ear level, and can be placed on a shelf, a piece of furniture, or an equivalent position. All satellite speakers are identical and it does not matter which speaker is placed in a particular position.
3. Place the receiver box between the left rear and the right rear speakers. The receiver box does not have to be at ear level, nor does it have to be centered between the rear speakers. Ideally, there should be no obstructions between its location and that of the subwoofer.

### STEP 2: WIRING THE (FRONT) CENTER SPEAKER

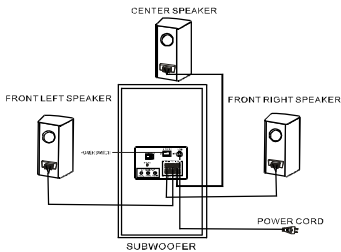


Figure 3a

1. Refer to Figure 3a.
2. Locate a length of twin-lead speaker wire (bare wires on both ends) and locate the connectors on the back of the center speaker.
3. On one end of the wire pair, connect the bare end of the red wire to the speaker's red terminal by pressing the red tab all the way down and inserting only the bare wire end into the resulting hole.
4. In a similar manner, connect the black wire to the speaker's black terminal.
5. Extend the twin-lead wire to the subwoofer, and locate the subwoofer's two CEN speaker output terminals. In the manner just described, connect the bare end of the red wire to the CEN's red terminal, and the bare end of the black wire to the CEN's black terminal.

### STEP 3: WIRING THE FRONT SPEAKERS

1. Refer to Figure 3a.
2. Locate a length of twin-lead speaker wire (bare wires on both ends) and locate the connectors on the back of the front left speaker.
3. On one end of the wire pair, connect the bare end of the red wire to the speaker's red terminal by pressing the red tab all the way down and inserting only the bare wire end into the resulting hole.
4. In a similar manner, connect the black wire to the speaker's black terminal.
5. Extend the twin-lead wire to the subwoofer, and locate the subwoofer's two FL speaker output terminals. In the manner just described, connect the bare end of the red wire to the FL's red terminal, and the bare end of the black wire to the FL's black terminal.

## INSTALLATIONS

6. Using another length of identical twin-lead, repeat the above process for the front right speaker, but make your connections to the FR terminals on the subwoofer.
7. When done, check your work and be sure that the wires from each pair are connected as described in the text and in Figure 3a.

### STEP 4: WIRING THE REAR SPEAKERS

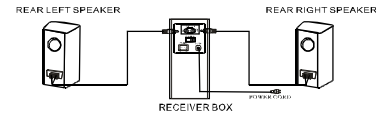


Figure 3b

1. Refer to Figure 3b.
2. Locate a length of twin-lead speaker wire with the white RCA phono plug on one end and locate the connectors on the back of the rear left speaker.
3. On one end of the wire pair, connect the bare end of the red wire to the speaker's red terminal by pressing the red tab all the way down and inserting only the bare wire end into the resulting hole.
4. In a similar manner, connect the black wire to the speaker's black terminal.
5. Extend the twin-lead wire to the receiver box, and plug the white RCA phono plug into the white "L" output jack.
6. Using the remaining length of twin-lead (with the red RCA phono plug), repeat the above steps for the rear right speaker. Be sure to plug the red RCA phono plug into the receiver box's red "R" output jack.
7. Once done, check your work and be sure that the wires from each pair are connected as described in the text and in Figure 3b.

For the further instructions, please follow the configurations below.

AUDIO SOURCE CONFIGURATION	GO TO
5.1-Channel DVD Audio	Step 5
5.1-Channel PC Audio	Step 6
4.1-Channel Audio	Step 7
2-Channel audio from a stereo component preamplifier, receiver, CD or VCD player, or cassette tape deck, or other standard stereo component	Step 8
2-Channel (Stereo) Audio from a personal computer (PC) sound card, or a portable CD, MP3, or cassette tape player	Step 9

STEP 5: CONNECTING A DVD 5.1-CHANNEL (e.g. DOLBY or DTS) AUDIO SOURCE TO THE SUBWOOFER

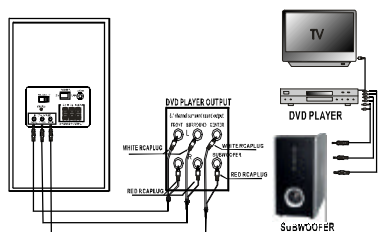


Figure 4

1. Locate the 3 sets of audio cables that came with the unit. These cables have a pair of RCA phono plugs on one end, and a single 3.5mm stereo plug on the other. See Figure 4. On each cable, the pair of RCA phono plugs connects to a pair of 5.1-Channel RCA phono jacks on the rear of your DVD player (or other 5.1-Channel source). Once done, each cable's 3.5mm stereo plug will connect to a particular 3.5mm jack on the rear of the subwoofer.

2. Using Figure 4 for reference, carefully perform these steps, using the first of the three supplied cables.

For the first of the three cables:

- a. On the rear of your 5.1-Channel DVD player:
  - Insert the WHITE RCA phono plug into the FRONT LEFT (FL) RCA output jack
  - Insert the RED RCA phono plug into the RIGHT FRONT (FR) RCA output jack
- b. On the rear of the JS-P701's subwoofer:
  - Insert the 3.5mm stereo plug into the "5.1CH INPUT" FR/FL 3.5mm stereo jack

For the second of three cables:

- a. On the rear of your 5.1-Channel DVD player:
  - Insert the WHITE RCA phono plug into the REAR LEFT (SL) RCA output jack
  - Insert the RED RCA phono plug into the REAR RIGHT (SR) RCA output jack
- b. On the rear of the JS-P701's subwoofer:
  - Insert the 3.5mm stereo plug into the "5.1CH INPUT" SR/SL 3.5mm stereo jack

Note: The designations SL (SURROUND LEFT) and (SR) SURROUND RIGHT are used to represent the REAR LEFT and the REAR RIGHT channel outputs.

For the third of three cables:

- a. On the rear of your 5.1-Channel DVD player:
  - Insert the WHITE RCA phono plug into the CENTER RCA output jack
  - Insert the RED RCA phono plug into the SUBWOOFER RCA output jack
- b. On the rear of the JS-P701's subwoofer:
  - Insert the 3.5mm stereo plug into the "5.1CH INPUT" CEN/SUB 3.5mm stereo jack

3. Check all your connections. When done, proceed to OPERATION.

STEP 6: CONNECTING A PC-BASED 5.1-CHANNEL AUDIO SOURCE TO THE SUBWOOFER

1. Locate the 3 sets of audio cables that came with the unit. These cables have a pair of RCA phono plugs on one end, and a single 3.5mm stereo plug on the other. See Figure 4.
2. On each cable, locate the pair of RCA phono plugs and fit them to a supplied audio adapter, so that the white RCA phono plug is inserted into the adapter's white RCA jack, and the red RCA phono plug is inserted into the adapter's red RCA jack.
3. Once done, confirm that each cable assembly is terminated by a 3.5mm stereo plug on each end. Be sure that the white and red RCA phono plugs have been inserted into the correctly colored RCA jacks in each adapter.

4. In this step, you will be connecting your PC's 5.1-Channel audio outputs to the subwoofer's 3 inputs using the supplied audio cables and adapters. On the rear of your 5.1-Channel equipped PC, locate the 5.1-Channel sound card or, if these outputs are provided by the PC's motherboard, locate them on the PC's rear housing.

Note 1: The audio jacks found on some 5.1-Channel sound cards and on many 5.1-Channel equipped motherboards may have dual purposes to save space. In fact, some may double as both input and output jacks, which are controlled by software provided by the manufacturer. Because each 5.1-Channel sound card and motherboard handles audio differently, you may wish to consult your PC's documentation before beginning the following steps, so you can avoid confusion.

For the first of the three cables:

- Insert the GREEN 3.5mm stereo plug into the PC's 5.1 FRONT (L/R channels) output jack
- Insert the adapter's 3.5mm stereo plug into the subwoofer's "FR/FL" 3.5mm jack, located on its rear panel

For the second of three cables:

- Insert the GREEN 3.5mm stereo plug into the PC's 5.1 SURROUND or REAR (L/R channels) output jack
- Insert the 3.5mm stereo plug into the "5.1CH INPUT" SR/SL 3.5mm stereo jack

Note 2: The designations SL (SURROUND LEFT) and (SR) SURROUND RIGHT are used to represent the REAR LEFT and the REAR RIGHT channel outputs.

For the third of three cables:

- Insert the GREEN 3.5mm stereo plug into the PC's 5.1 CENTER/SUBWOOFER output jack
- Insert the adapter's 3.5mm stereo plug into the subwoofer's "CEN/SUB" 3.5mm jack, located on its rear panel

Note 3: PCs with sound cards supporting 5.1-Channel audio will likely have a 3.5mm CENTER/SUBWOOFER jack. Some 5.1-Channel sound cards may not be equipped with a CENTER/SUBWOOFER output jack, but it may use a programmable "MIC" jack or have a "versatile" jack whose functions are controlled by the sound card's software. In such cases, select the CENTER/SUBWOOFER function for the "versatile" jack.

5. Check all your connections. When done, proceed to OPERATION.

STEP 7: CONNECTING A PC-BASED 4.1-CHANNEL AUDIO SOURCE TO THE SUBWOOFER

1. Locate the 3 sets of audio cables that came with the unit. These cables have a pair of RCA phono plugs on one end, and a single 3.5mm stereo plug on the other. See Figure 4.
2. On each cable, locate the pair of RCA phono plugs and fit them to a supplied audio adapter, so that the white RCA phono plug is inserted into the adapter's white RCA jack, and the red RCA phono plug is inserted into the adapter's red RCA jack.
3. Once done, confirm that each cable assembly is terminated by a 3.5mm stereo plug on each end. Be sure that the white and red RCA phono plugs have been inserted into the correctly colored RCA jacks in each adapter.
4. On the rear of your 4.1-channel equipped PC, locate the 4.1-channel sound card or the 4.1-channel outputs that may be present on the PC's rear housing.

For the first of the three cables:

- Insert the GREEN 3.5mm stereo plug into the PC's 4.1 FRONT (L/R channels) output jack
- Insert the adapter's 3.5mm stereo plug into the subwoofer's "FR/FL" 3.5mm jack, located on its rear panel

For the second of three cables:

- Insert the GREEN 3.5mm stereo plug into the PC's 4.1 SURROUND or REAR (L/R channels) output jack
- Insert the 3.5mm stereo plug into the "4.1CH INPUT" SR/SL 3.5mm stereo jack

Note: The designations SL (SURROUND LEFT) and (SR) SURROUND RIGHT are used to represent the REAR LEFT and the REAR RIGHT channel outputs.

## For the third of three cables:

- Insert the GREEN 3.5mm stereo plug into the PC's 4.1 SUBWOOFER output jack
- Insert the adapter's 3.5mm stereo plug into the subwoofer's "CEN/SUB" 3.5mm jack, located on its rear panel

Note: The 4.1 Channel arrangement does not provide for Center Channel operation. As such, no audio will be produced by the (front) CENTER speaker.

5. Check all your connections. When done, proceed to OPERATION.

## STEP 8: CONNECTING A (2-CHANNEL) STEREO COMPONENT SOURCE TO THE SUBWOOFER

The following steps will inform you how to connect a stereo preamplifier, receiver, component CD, or cassette tape deck so that its audio output will be reproduced by the JS-P701. If a speaker system is already connected to the existing audio system, it will have to be disconnected or disabled before connecting the JS-P701, to avoid having two speaker systems operating simultaneously.

Note: Before performing the following steps, it's important to have a working knowledge of the stereo component you wish to connect to the JS-P701 and of the entire system to which it's connected. Read through the following steps carefully before performing them, and be sure that none will conflict with the regular operation of your stereo system.

1. Of the 3 sets of audio cables that came with the JS-P701, put 2 sets aside, and use the remaining cable, which will have a pair of RCA phono plugs on one end, and a single 3.5mm stereo plug on the other. See Figure 4.
2. On the rear of the stereo component you wish to connect to the JS-P701, locate the RCA jacks representing the unit's left and the right stereo line-level outputs (not its speaker output, if they should exist).

Note: These jacks are often referred to as "LINE OUT", "PREAMP OUT", or "TAPE OUT", and they produce low level signal voltages (usually less than 2 volts), which are amplified before being applied to loudspeakers. It is this type of source that must be applied to the JS-P701.

3. On the cable set aside in Step 1, above, insert its white RCA phono plug into the LEFT channel (line) output jack, just discussed. Similarly, insert the red RCA phono plug into the RIGHT channel (line) output jack.
4. Insert the GREEN 3.5mm stereo plug into the subwoofer's "FR/FL" 3.5mm jack, located on its rear panel.
5. Once done, proceed to OPERATION.

## STEP 9: CONNECTING 2-CHANNEL (STEREO) AUDIO FROM A PC SOUND CARD, A PORTABLE CD / MP3 PLAYER, OR CASSETTE TAPE PLAYER

1. Of the 3 sets of audio cables that came with the JS-P701, put 2 sets aside, and use the remaining cable, which will have a pair of RCA phono plugs on one end, and a single 3.5mm stereo plug on the other. See Figure 4.
2. Fit the pair of RCA phono plugs to a supplied audio adapter, so that the white RCA phono plug is inserted into the adapter's white RCA jack, and the red RCA phono plug is inserted into the adapter's red RCA jack.
3. Insert the adapter's 3.5mm plug into the subwoofer's "FR/FL" 3.5mm jack, located on its rear panel.
4. Insert the cable's green 3.5mm stereo plug into the 3.5mm stereo output jack on either the PC's sound card (its line or speaker output) or the line (or headphone) output of the portable CD/MP3 or cassette tape player.
5. Check your connections. When done, proceed to OPERATION, below.

Your JS-P701 is very easy to use. Follow these steps:

1. Be sure that all the steps in the 'BEFORE MAKING ANY CONNECTIONS' section have been completed.
2. Connect the AC line cords from both the subwoofer and the receiver box to an AC outlet, and turn on their respective POWER switches, located on the rear panel of both units. Check that the POWER LED on each unit is lit. If not, be sure that the correct source of AC power is available for each unit, and that each unit's 110V/220V switch is in the correct position.
3. Turn on the audio source connected to the JS-P701 (i.e. your DVD player, PC, stereo component or your portable disc or tape player) and set its respective volume control to a low volume position.
4. For DVD players capable of providing 5.1-Channel Surround Sound, be sure the unit has been set up to provide it. Typically, DVD players have a menu system that governs the type of audio produced by the unit. If so, be sure that Dolby Digital 5.1 is selected under the "audio output" category to enable this type of playback.
5. From the subwoofer's front panel, increase the level of the four controls governing the volume of the various JS-P701 speakers. Similarly, adjust the source's volume until audio is heard at a comfortable level.

## Important Notes:

1. Getting your JS-P701 to produce 5.1-Channel surround sound  
If your audio source is a DVD player capable of providing Dolby (and/or DTS) 5.1-Channel Surround Sound, be sure the DVD media (disc) you wish to play is also encoded with Dolby Digital 5.1 or DTS, if applicable. Without 5.1-Channel information encoded on the media, you will only receive stereo (2-channel) output from your JS-P701, and its (front) center and rear speakers will be silent. If you are still experiencing problems, follow the instructions in the 'Troubleshooting' section (on page 10).
2. 5.1-Channel performance  
Even when properly playing 5.1-Channel DVDs, there are times when some of the JS-P701 speakers may be silent. This is not unusual and is a function of how the audio content was distributed among the 5 channels and the subwoofer. If you have any doubts as to whether a speaker is working, use a source of 5.1-Channel audio (e.g. an action scene from a movie) that is known to produce audio in all channels at the same time.
3. 2-Channel Stereo Performance (Steps 8 and 9)  
One might think that with only a 2-Channel stereo source connected to the subwoofer's FR/FL (Front Right/Front Left) input, only the JS-P701's front speakers would operate, leaving the center and rear speakers without any audio—but that's not the case. The JS-P701 has a "Simulate Surround" function that creates additional audio when only the front channel stereo input is detected. In such cases, a simulated signal will be produced by the electronics in the subwoofer enclosure and also distributed to the center and rear speakers. While the result is not a true 5.1-Channel audio presence, the resulting simulation can be effective.

Note that if a signal is detected at either the REAR channel input (SR/SL) or at the CENTER/SUBWOOFER (CEN/SUB) input, its presence will cancel the "simulated surround" sound mentioned above.

## WIRELESS OPERATION

As previously stated, the rear speakers receive their audio from the receiver box, which, in turn, receives the same audio from the subwoofer's wireless (RF) transmitter. In the event of RF interference, which may prevent the rear channel signals from being properly received, the transmitter in the subwoofer is capable of changing its frequency slightly to produce a better alternative. Since the 2.4GHz band is divided into 11 channels of slightly differing frequencies, the JS-P701 can switch among them, as required.

## TROUBLESHOOTING

Although the JS-P701 should not present any problems, there are always things that can go wrong. Most problems are usually caused by cabling errors, improper connections between the JS-P701 and the audio component(s) with which it is designed to work, or incorrect settings on those devices.

1. Review the steps that relate to the Refer to step your Connection Guide and verify the cable connections.
2. Make sure all the cables are firmly connected.
3. Adjust the volume control on the Subwoofer.
4. Depending on the Manufacturer and the Model of your DVD player, locate a button on the DVD remote control to enter the setup mode. The button is commonly labeled as "SETUP".
5. Look for an option or a tab for "AUDIO" settings and go to "AUDIO" settings.
6. Enable or change the "AUDIO OUTPUT" to 5.1 Surround Sound.
7. Enable all the Satellite Speakers and Sub-Woofer.

SYMPTOM	POSSIBLE CAUSE	LIKELY REMEDY
1. There is no audio output from any of the JS-P701's speakers.	<p>1a. Speaker power problems</p> <p>1b. Errors in speaker wiring connections</p> <p>1c. Problems with audio source connections</p> <p>1d. Problems with the audio source settings</p>	<p>1a. Be sure that both the subwoofer and the receiver box are both connected to a "live" power outlet, and that they are both turned on.</p> <p>1b. Review Steps in the instructions to make sure that both the front and rear speakers have been wired correctly.</p> <p>1c. Be sure to go over Steps and make certain that you have connected the audio cables to the audio source as described.</p> <p>1d. Be sure to go over audio settings of your audio device.</p>
2. Audio is produced by the front speakers, but not by the rear speakers.	<p>2a. The receiver box may not be receiving the subwoofer's rear channel RF transmission</p> <p>2b. The source's audio content (i.e. its 5.1 or 4.1 channel surround sound source) does not contain any rear channel information.</p>	<p>2a. Check whether receiver box is powered properly. Check whether sound satellite speakers are connected properly to the receiver box.</p> <p>2b. Try another audio source, which supports 5.1 or 4.1 channel surround.</p>

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
 (1) This device may not cause harmful interference.  
 (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

---Reorient or relocate the receiving antenna.

---Increase the separation between the equipment and receiver.

---Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

---Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.