Roland®

ROLAND SPEAKER SYSTEM SST-151/251 SSW-351 SSM-151

OWNER'S MANUAL

Thank you, and congratulations on your choice of the SST/SSW/SSM Speaker System.

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" (p. 2) and "IMPORTANT NOTES" (p. 3). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, this manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

Features

Roland's SST/SSW/SSM speaker systems, designed, developed, and manufactured in the U.S.A., offer the ideal combination of excellent sound, superb design, and outstanding value.

- The enclosures (except for the SSM-151) feature a trapezoidal design, allowing them to be arrayed in radiating clusters.
- The metal speaker grills and 3/4" plywood cabinets are designed to withstand the rigors of professional use.
- The tweeter features a built-in auto-reset protection circuit to prevent problems from input overload before they start (not featured on the SSW-351).
- The SSM-151 can be oriented at two different floor angles (35 and 55 degrees), allowing selection of the most appropriate angle for your particular stage environment.
- The crossover network components have been carefully selected to ensure high input capacity and precise impedance characteristics.
- Speakon® NL4MP (speaker connectors) are featured to allow high-reliability connections.
- Oversized steel carrying handles help to provide exceptional portability.
- * Speakon® is a registered trademark of NEUTRIK.

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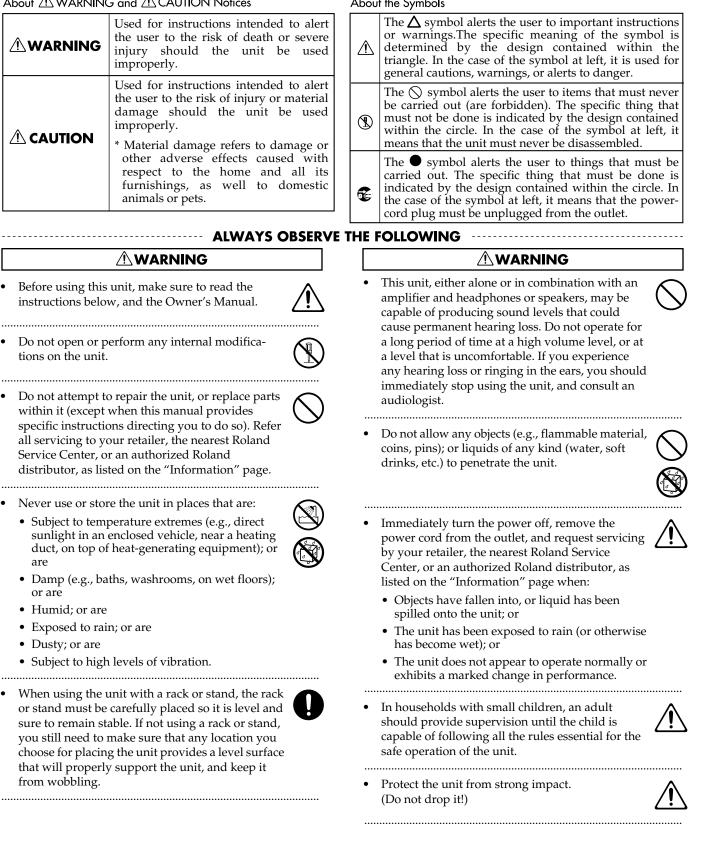
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SING THE UNIT

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About A WARNING and A CAUTION Notices

About	the	Svm	bo	s
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A CAUTION

• The unit should be located so that its location or position does not interfere with its proper ventilation.



• Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.



- If you need to move the instrument, take note of the precautions listed below. At least two persons are required to safely lift and move the unit. It should be handled carefully, all the while keeping it level. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage.
 - Disconnect all cords coming from external devices.
 - Remove the unit from the speaker stand.

Important Notes

In addition to the items listed under "USING THE UNIT SAFELY", please read and observe the following:

Connection

- Before making any connections, be sure all units in the system are OFF. Also be sure that all amplifier and mixer volume controls are at MINIMUM.
- Before connecting SST/SSW/SSM Speakers to an *external crossover* read the specification chart carefully.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels (especially when it is late at night).
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

Making Connections

- **1.** Before you make connections, make sure that the power of all equipment is turned off. Also make sure that the volume controls on your amplifier and mixer are turned to the minimum position.
- **2.** Use speaker cables to connect the output terminals of the amplifier to the inputs of the speakers.



When connecting speakers, pay attention to the polarity (+/-) of the amplifier.

NOTE

NOTE

When connecting speakers in parallel, make sure that the polarity matches. Since the total impedance of all speakers will decrease if they are connected in parallel, check the recommended load impedance of your amplifier once again to make sure.

The SST/SSW/SSM speakers have a nominal impedance of 8 ohms. Check the recommended load impedance of your amplifier.



In order to get the best sound quality, please use thick and sturdy speaker cables. Avoid using cheap cables, or shielded cables intended for use with a guitar. In order to achieve high-reliability connections, we recommend that you use Speakon® connectors (speaker connectors). When making Speakon® connections, refer to the network circuit diagram in the specifications.



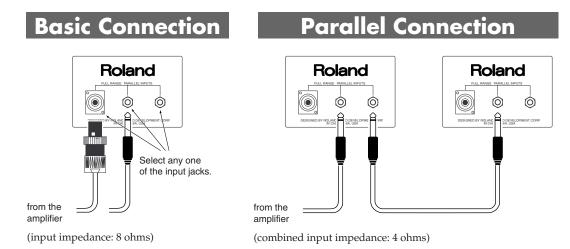
These speakers are equipped with self-recovering protection circuitry designed to guard the tweeters from excessively high input and abnormal signals. The circuit is tripped when the speaker is presented with excessive input, thus preventing sound output from the tweeter; this does not indicate a malfunction. In such instances, lower the amp volume; the tweeter function is restored automatically after 5– 10 seconds. Contact a Roland Service Center if the speaker function does not recover properly.



The Roland SST/SSW speakers are designed to allow multiple units to be combined to create highoutput spaker clusters. The SSW-351 speaker system can be driven with a single amp when using its built-in crossover network, or driven with a multi-amp system when an external crossover is used, and is also the ideal subwoofer system for use in conjunction with a SST-151/251. In order to take full advantage of its performance and to protect the speakers, please read the following explanations carefully.

SST-151/251/SSM-151

Connect the inputs of the SST-151/251/SSM-151 directly to your amplifier. If you wish to add an additional SST-151/251/SSM-151, connect it in parallel. To connect the additional SST-151/251/SSM-151, use the second PARALLEL INPUTS an an output.

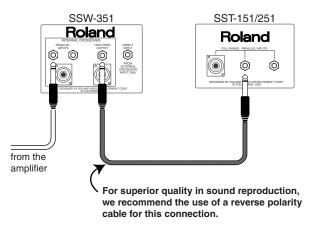


SSW-351

The SSW-351 contains a built-in crossover network.

There are several ways in which an additional speaker can be connected to the SSW-351.

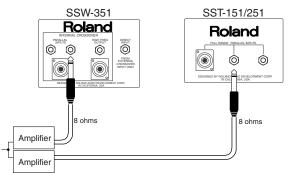
 Since the HIGH FREQ OUTPUT is routed
through the internal crossover network, a signal from which the low range has been cut will be sent to the connected speaker.



MEMO

In this case, the combined impedance will be 8 ohms.

 The speakers can be driven by multiple
amps very simply with the internal crossover network. When driving the speakers with two power amps (biamping), connect the speakers using the parallel input jacks.



Parallel input connection

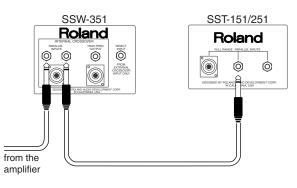


MEMO

The volume balance between the subwoofers (SSW-351) *and full-range speakers* (SST-151/251) *and be adjusted with the power amp level settings.*

Using two power amps provides greater headroom when driving the speakers.

The PARALLEL INPUTS can be used as an output to connect an auxiliary woofer or a full range speaker. A full frequency range signal will be sent to the connected speaker.



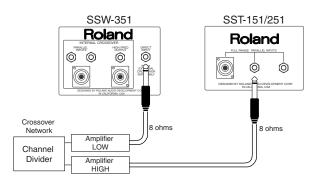
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MEMO

In this case, the combined impedance will be 4 ohms.

A method to increase low-range sound pressure levels.

If you wish to use an external channel
divider (crossover network) instead of using the built-in crossover network, make connections to the DIRECT INPUT. Pay attention to the crossover frequency of each speaker that is connected.





Carefully read the specifications before connecting an external channel divider (crossover network).

MEMO

For the crossover frequency, we recommend frequencies between 100 Hz and 200 Hz.

Setting Up the SSM-151

When used as a stage floor monitor, the SSM-151 can be set at two different floor angles.





When setting up monitor speakers, be sure to observe the following points in order to prevent the speakers from falling over (exercise caution particularly when using the 55-degree setup, as the speakers may topple more easily in this orientation than when set up 35 degrees).



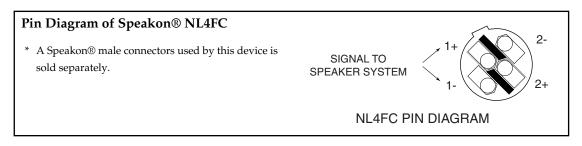
- * Do not sit or place feet on the speakers.
- * Do not place the speakers on unstable or inclined surfaces.
- * Do not use the speakers as steps.

Specifications

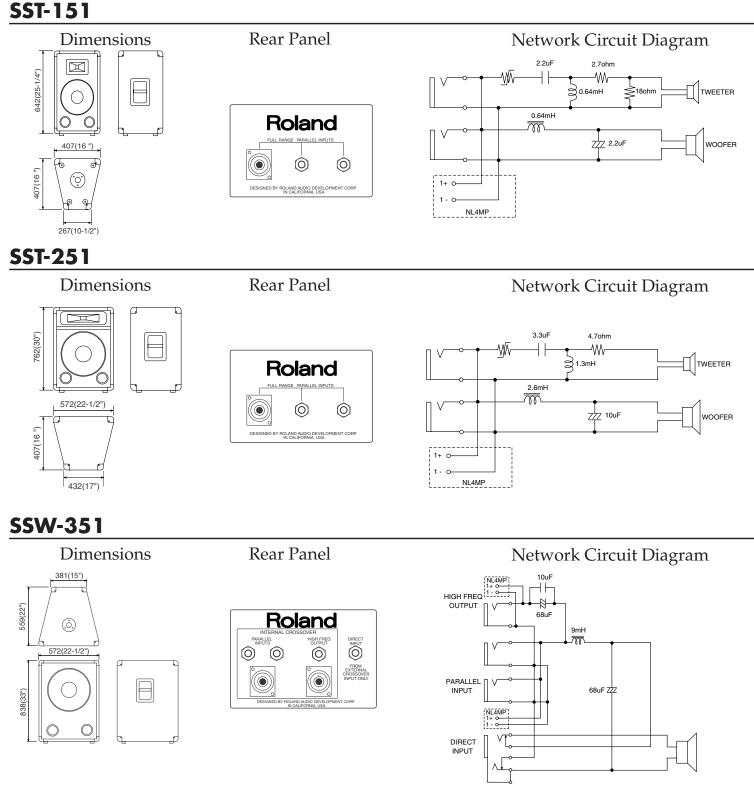
Model	SST-151	SST-251	SSW-351	SSM-151
Enclosure	Bass-reflex	Bass-reflex	Bass-reflex	Bass-reflex
Speakers	12" Woofer + Horn Tweeter	15" Woofer + Horn Tweeter	18" Woofer	12" Woofer + Horn Tweeter
Power Handling				
(rated) *1	150 W	200 W	200 W	150 W
(max)	450 W	600 W	600 W	450 W
Frequency Response	58 Hz–16 kHz	52 Hz–20 kHz	45 Hz–1.5 kHz	58 Hz–16 kHz
Nominal Impedance	8 ohms	8 ohms	8 ohms	8 ohms
Sensitivity (1 W/1 m)	98 dB	100 dB	97 dB	98 dB
Crossover Frequency	4 kHz	1.5 kHz	200 Hz	4 kHz
Connectors				
(1/4" phone)	Parallel Inputs x 2	Parallel Inputs x 2	Parallel Inputs x 2	Parallel Inputs x 2
			Direct Input x 1	
			High Freq Output x 1	
(Speakon® NL4MP) Parall	Parallel Input x 1	Parallel Input x 1	Parallel Input x 1	Parallel Input x 1
			High Freq Output x 1	
Weight	20 kg/44 lbs	31.8 kg/70 lbs	39.5 kg/87 lbs	14.5 kg/32 lbs
Dimensions	407 x 407 x 642 mm	572 x 407 x 762 mm	572 x 559 x 838 mm	620 x 400 x 360 mm
(W x D x H)	16 x 16 x 25-1/4 inches	22-1/2 x 16 x 30 inches	22-1/2 x 22 x 33 inches	24-7/16 x 15-3/4 x 14-3/16 inches
Accessory	OWNER'S MANUAL	OWNER'S MANUAL	OWNER'S MANUAL	OWNER'S MANUAL

*1 EIA RS426A

* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.



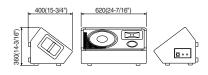




SSM-151

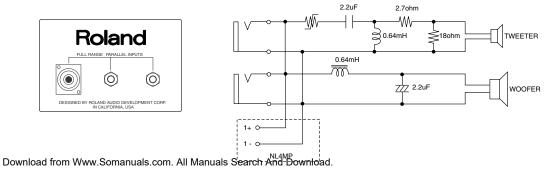
Dimensions

Rear Panel









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