Welcome to the family of discerning sound equipment users who have selected JBL Professional loudspeakers. This User’s Guide contains important information that will help you get the most from your JBL speakers so please take a few moments to read it and be sure to keep it in a safe place for future reference.

Thanks from all of us at JBL Professional.

Model:       SR47      -X       Serial Number:__________________________

Purchased from (dealer):_________________________________________

Purchase date:__________________________________________________

JBL Professional Contact Information

A Harman International Company

JBL Professional
8500 Balboa Blvd.
Northridge, CA 91329

www.jblpro.com
Important information
Before using your SR-X Series speaker system, please review the following for important information on safety and protection of your investment in quality loudspeakers.

Rigging / suspending SR-X products
SR-X Series speakers are designed for portable applications in which the speakers will be stacked directly on the floor, stage, speaker stands (SR4702X, SR4722X only), other speakers, or a solid, stable platform. SR-X Series speakers have no provisions for hanging, rigging or suspension. SR-X/F Series speakers are similar to SR-X and in addition have provisions for flying. SR-X/F versions should always be substituted for SR-X if flying or suspending the speaker system is required.

ONLY SPEAKERS SPECIFICALLY DESIGNED FOR FLYING / RIGGING SHOULD BE SUSPENDED. For further information on suspending speakers contact JBL and request Technical Note Volume 1, Number 14 – “Basic Principles for Suspending Loudspeaker Systems”.

Stand mounting
Some SR-X models (SR4702X, SR4722X) include a receptacle cup to facilitate mounting on tripod stands. When using these stands, be sure to observe the following precautions:
• Check the stand specification to be certain it is designed to support the weight of the speaker. Observe all safety precautions specified by the stand manufacturer.
• Always verify that the stand is placed on a flat, level, and stable surface.
• Route cables so that performers, crew, and audience will not trip over them and pull the speaker over.
• Be sure to fully extend the legs of tripod type stands.
• Position the stand so that the legs do not present a trip hazard.
• Do not attempt to place more than one speaker on a stand.
• Always be cautious in windy, outdoor conditions. It may be necessary to place additional weight (i.e. sandbags) on the base of the stand to improve stability.

Stacking speakers
Safety precautions should be observed when stacking SR-X speakers.
• Verify that the floor or stage on which the speakers will be stacked is flat, level and solid.
• When used outdoors, be aware of winds that could tip a tall speaker stack over.
• Position the speakers to minimize the possibility that performers, crew, or audience will bump into them.
• Under extreme, high-SPL conditions it’s possible that speakers on a highly polished surface can "creep." (i.e. move due to the power of the acoustic energy) Precautions should be taken so that such creeping will not result in toppling of the speaker stack.

Hearing damage, prolonged exposure to excessive SPL
SR-X series loudspeakers are easily capable of generating sound pressure levels (SPL) sufficient to cause permanent hearing damage to performers, production crew and audience members. Proper precautions should be taken to avoid prolonged exposure to SPL in excess of 85dB.

Exposure to moisture, outdoor applications
While SR-X Series loudspeakers will work great for outdoor sound reinforcement, they are not “weather-proof” and are not intended for continuous exposure to extremes of humidity, temperature, salt air, or UV rays. Exposure to outdoor environmental conditions may result in premature failure of components as well as degradation to appearance.
The SR-X Series consists of 11 popular configurations including subwoofers, front-of-house systems, and stage monitors. SR-X models include these features:

- Metalized polyester capacitors are used throughout (instead of cheaper electrolytics) for higher power handling and lower distortion.
- “Dual-mode” crossovers can be easily switched from full-range to bi-amplified operation. A tamper-resistant, internal mode selector provides a visible, external indication of the selected mode.
- Dual driver subwoofers may be operated in parallel or discrete mode.
- VGC™ (Vented Gap Cooling) low-frequency transducers control heat build-up to increase power handling and decrease power compression, providing more acoustic output for every watt of amplifier input.
- 13 ply birch enclosures are finished in tough DuraFlex™ that resists the inevitable scuffs and dings a hard-working speaker suffers during a life of one-nighters.
- Pure titanium diaphragm compression drivers are used in all two & three-way models for high power handling and reliability.
- Optimized Aperture™ horn/driver combinations reduce throat distortion and provide smooth frequency response.
- A non-resonant, full-length perforated metal grill provides protection for the components and a rich yet unobtrusive appearance.
- Trapezoidal enclosures (except SR4715X / 4718X / 4719X / 4702X) for optimal coverage when splaying multiple cabinets.
- Family footprint on the most popular models provides ease of stacking for larger, full-range systems.

**Stage Monitor**

**SR4702X**

12” two-way stage monitor: With 600 watts of power capacity and 95 dB sensitivity, the SR4702X delivers all the output needed to cut through high stage volumes. Its compact footprint won’t crowd the stage and the low profile won’t come between the performer and the audience. For increased flexibility, a tripod mount socket is provided to facilitate use as a front-of-house speaker. A “pass-thru” speaker connector allows cleaner connection of adjacent cabinets driven by the same amplifier.
Product Range

2-Way Systems

**SR4722X**
12" two-way compact speaker: A great choice for applications where compact size, ease of transport, and speaker stand “mountability” are required. For speech and many music uses, the SR4722X works great by itself. When more bass is needed, team it up with an SR-X Series sub-woofer. A pole-mount socket (35 mm) is provided for stand mounting.

**SR4725X**
15" two-way compact speaker: The 15" two-way system is a favorite for general music and speech applications. The SR4725X produces extended low frequencies in a transportable enclosure.

**SR4726X**
15" two-way high-output speaker: When the requirement is for very high acoustic output, extended low-frequency performance, and the convenience of a one-box system, chose the SR4726X. The large format 2447 compression driver coupled to an Optimized Aperture™ horn delivers great pattern control at very high levels with low distortion.

Dual LF Systems

**SR4731X**
Dual 12" two-way system: With the combined power of two VGC LF motors and the cone area of dual 12" speakers, the SR4731X produces incredible amounts of mid-range power combined with lots of tight, punchy bass. The transition from the 12" LF drivers to the large format 2447 compression driver is very smooth. For extremely high-power applications requiring earth-moving bass, use the SR4731X over the SR4719X subwoofer.

**SR4733X**
Dual 15" two-way system: The SR4733X delivers the power and performance of separate subwoofer / high-mid configurations combined with the simplicity of an all-in-one system. At home in a wide range of live sound and playback applications, the SR4733X delivers very high acoustic output combined with lots of extended low bass.
3-Way Systems

SR4732X
Dual 12" three-way system: Take the SR4731X, add the high-frequency sizzle of a 2404 UHF driver and you get the ultimate speaker system for very high-level music playback in medium to short throw applications. In combination with the SR4719X subwoofer, this is an unbeatable system for DJ and dance club applications.

SR4735X
15" three-way system: For long-throw applications in which the power and additional control of a horn-loaded cone MF driver is desired, choose the SR4735X. This system boasts extremely wide frequency response and is a great choice as an arrayable, front-of-house reinforcement system.

Subwoofers

SR4715X
Dual 15" subwoofer: For those who prefer the tight, punchy bass of a 15" sub, the SR4715X is the answer. The SR4715X has the same footprint as the other SR-X 15" two-way systems (including the dual LF models) for tight floor stacking.

SR4718X
Single 18" subwoofer: The single 2241 subwoofer produces pounding bass down to 30 Hz. A top mounted, 35 mm diameter socket is provided for an optional pole (JBL model SS3-BK) to elevate a speaker such as the SR4702X or SR4722X above your subwoofer. The socket is intended to accommodate speakers up to 100 lbs (45 kg). Observe the stand mounting precautions outlined in the “Before You Begin” section of this User’s Guide.

SR4719X
Dual 18" subwoofer: Capable of delivering a wall-shaking 136 dB of acoustical output with a frequency range extending to 25 Hz, the SR4719X is the choice for large rooms, outdoor performance and high-level sound reinforcement or music playback. The rectangular enclosure is ideal for stacking any of the SR-X two-way systems for those who require uncompromising high level sound reproduction.
The following table shows the recommended amplifier power for SR-X models. For applications in which the ability to reproduce brief, high-power transients is important, an amplifier capable of up to twice the power listed below may be used.

<table>
<thead>
<tr>
<th>Model</th>
<th>Full-Range / Parallel (1)</th>
<th>HF (2)</th>
<th>LF (3) / Discrete (4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR4702X</td>
<td>600W@8Ω</td>
<td>100W@8Ω</td>
<td>600W@8Ω</td>
</tr>
<tr>
<td>SR4715X</td>
<td>1,200W@4Ω</td>
<td>n/a</td>
<td>600W@8Ω x2</td>
</tr>
<tr>
<td>SR4718X</td>
<td>600W@4Ω</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>SR4719X</td>
<td>1,200W@4Ω</td>
<td>n/a</td>
<td>600W@8Ω x2</td>
</tr>
<tr>
<td>SR4722X</td>
<td>600W@8Ω</td>
<td>60W@8Ω</td>
<td>600W@8Ω</td>
</tr>
<tr>
<td>SR4725X</td>
<td>600W@8Ω</td>
<td>100W@8Ω</td>
<td>600W@8Ω</td>
</tr>
<tr>
<td>SR4726X</td>
<td>600W@8Ω</td>
<td>150W@16Ω</td>
<td>600W@8Ω</td>
</tr>
<tr>
<td>SR4731X</td>
<td>1,200W@4Ω</td>
<td>150W@16Ω</td>
<td>1,200W@4Ω</td>
</tr>
<tr>
<td>SR4732X</td>
<td>1,200W@4Ω</td>
<td>150W@16Ω</td>
<td>1,200W@4Ω</td>
</tr>
<tr>
<td>SR4733X</td>
<td>1,200W@4Ω</td>
<td>150W@16Ω</td>
<td>1,200W@4Ω</td>
</tr>
<tr>
<td>SR4735X</td>
<td>600W@8Ω</td>
<td>100W@8Ω</td>
<td>600W@8Ω</td>
</tr>
</tbody>
</table>

1. Full-range / Parallel – Is the amplifier power required to optimally drive this speaker system when used in full-range (passive) mode. In the case of dual-driver subwoofer models, this is the power required to drive both transducers at the same time.
2. HF – Is the amplifier power required to optimally drive the high-frequency section of this speaker system when used in bi-amp mode.
3. LF – Is the amplifier power required to optimally drive the low-frequency section of this speaker system when used in bi-amp mode.
4. Discrete – Is the amplifier power required to optimally drive an individual transducer in a dual transducer subwoofer.
5. ± 1 or ± 2 Pass-Thru - This allows for the convenience of a single conductor cable from the amplifier rack to the speakers stack, this configuration supplies separate amplifier power to the subwoofer (ie ± 2) and to the mid-high speaker (ie. ± 1 Pass-Thru).
Each connector panel incorporates two Neutrik® Speakon® connectors. The second connector facilitates the ability to “loop through” to other SR-X speakers in the system. The diagrams below detail the cable-side connections.

### Passive Systems & Subs (Parallel mode)

- **2 Core**
- **± 1 Full Range Signal or Sub Signal**

### Bi-Amp Systems & Subs (Discrete mode)

- **4 Core**
- **± 2 HF Signal or LF #2 Sub Signal**
- **± 1 LF Signal or LF #1 Sub Signal**

### Wire Gauges

Selection of the appropriate wire gauge is important to system operation. A cable that’s too light will result in amplifier power being wasted due to the series resistance of the cable and in loss of low-frequency performance due to degraded damping factor.

<table>
<thead>
<tr>
<th>Wire Size (AWG)</th>
<th>Length of Run (ft.) / (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 Ohm Load</td>
<td>16.77</td>
</tr>
<tr>
<td>8 Ohm Load</td>
<td>5.26</td>
</tr>
<tr>
<td>4 Ohm Load</td>
<td>1.65</td>
</tr>
</tbody>
</table>

Wire Gauge Chart for 0.5 dB Loss

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1. Remove 6 connector plate retaining screws and remove the plate.
2. Turn plate over and locate the male connector.
3. Pull out connector and firmly place in socket of desired system mode - you should be able to see the yellow indicator in the desired mode window.
4. Replace plate and secure with 6 screws.

**Please Note:** For SRX4715X - SRX4719X, the connector is split to permit discrete mode operation.
Input Configurations

This section describes the different configurations of Input Connector Panel mode selections. The wiring connections from the Input Panel to the transducers change when the mode selector is moved. Please Note: Each line in the diagrams below represents a pair of wires. (E.g. both +1 and -1 connecting wires.)

Sub Connector Plate w/ NL4 MPR Inputs

SR4718X Pin 1 Hot (as shipped)

SR4715/19X Discrete Mode

SR4715/19X Pin 1 Hot (as shipped)

SRX4715/19X Pin 2 Hot *

Passive Mode Bi-Amp Mode

2-Way Connector Plate w/ NL4 MPR Inputs

Passive Mode Bi-Amp Mode

3-Way Systems

Passive Mode Bi-Amp Mode

LF = Low Pass Filter
BP = Band Pass Filter
HP = High Pass Filter

* Units manufactured after April '00.
SR-X Series loudspeaker systems may be operated in an optional bi-amplified mode. When used in this optional mode, an external, low-level crossover network is required. JBL Professional offers the DSC260 Digital System Controller for these applications. In addition to the crossover functions, the DSC260 provides signal (time/phase) alignment, equalization, and limiting. JBL has developed programs for the DSC260 that will optimize the performance of your SR-X Series system. These programs may be downloaded from the “Software Downloads” section of www.jblpro.com at no charge. If you do not have access to the World Wide Web, you may contact JBL Professional at the address listed elsewhere in this manual. The documentation included with your DSC260 will detail the process for loading new programs.

The crossover designs of SR-X series speakers incorporate circuitry that tailors system response. When the internal SR-X crossovers are set to “Bi-amp Mode” this circuitry is bypassed. The JBL DSC260 programs for SR-X include the appropriate response tailoring. Other crossovers and system controllers may not have this tailoring and may require additional equalization in order to perform properly.
There are many different possible configurations of systems within the JBL SR-X Series. This section shows a selection of key system configurations that will provide a basis for setting up any system, it includes: DSC controllers, amplifiers and wiring connections. It is very important that you are familiar with the previous sections of this User’s Guide and also the DSC260 system controller. Settings are available for the DSC260 for bi-amplified, and bi-amplified plus subwoofer, operation of the SR-X systems. Please note that when using the LF reinforcement systems, a suitable adjustment may be required in the DSC260 for accurate operation in the system. This is a straight forward procedure which is clearly outlined in the DSC260 User’s Guide.

Note: Each line in the diagrams below represents a pair of wires. (E.g. both +1 and -1 connecting wire.)
### System Configurations

#### Full-range 2-way with Sub (Parallel Mode)

- **Input B**
- **Output 4**
- **Output 2**

- **DSC260**
- **Amplifier**
- **Sub ± 1**
- **Full Range ± 1**

**Diagram:**
- Full-range 2-Way with Sub (using a single 4 conductor amp - speaker cable)

(Same configuration as seen in Full-range 2-way with Sub (Parallel Mode).)

- **DSC260**
- **Input B**
- **Output 4**
- **Output 2**

### Bi-Amp 2-way with Sub (Discrete Mode)

- **Input B**
- **Output 6**
- **Output 4**
- **Output 2**

- **M552**
- **Amplifier**
- **Amplifier**
- **Amplifier**
- **Sub ± 2**
- **Sub ± 1**
- **LF ± 2**
- **HF ± 1**

**Diagram:**
- Bi-Amp 2-way with Sub (Discrete Mode)
Suspension or flying speaker systems requires training and expertise. Improper rigging of a flying speaker may result in injury, death, equipment damage, and legal liability. This User Guide is intended to provide a skilled system rigger with resources needed to get the most from the SR-X/F speaker system. This User Guide will not provide the novice with the skills and training needed to safely fly a speaker system. If you lack the skills, training, and proper ancillary equipment to fly a speaker system do not attempt to do so. Obtain the services of a qualified rigger or get the proper training yourself. One source for training is:

**RiggerMeister**

In the U.S call or write:
(310) 834-5914
(888) RIG-MORE
Fax: (310) 834-3042
21000 South Wilmington Ave.
Carson, CA 90810

In Europe call or write:
(44) 0171-482-3300
Fax: (44) 0171-482-4484
102 Grafton Road
London NW5 4BA UK

The SR-X/F models are equipped with ATM FLY-WARE® rigging hardware. Only hardware rated for overhead suspension and certified in accordance with appropriate safety standards should be used to fly speaker systems. A source for such hardware and assistance in selecting appropriate hardware is:

**ATM FLY-WARE®**

In the U.S call or write:
(310) 834-5914
(888) RIG-MORE
Fax: (310) 834-3042
21000 South Wilmington Ave.
Carson, CA 90810

In Europe call or write:
(44) 0171-482-3300
Fax: (44) 0171-482-4484
102 Grafton Road
London NW5 4BA UK
www.atmflyware.com

**Sound Manufacturing Inc.**

In the U.S call or write:
(909) 878-9104
Fax: (909) 878-4248
PO Box 1907
Big Bear Lake, CA 92315-1907
www.smirigging.com
smirigging@aol.com
Each primary “load bearing” suspension point shall be rated for the entire load.

Primary “Load Bearing” Facility Attachment Points
(MIN: 5:1 Design Factor or Local Standard, Whichever Is Greater)

Appropriate Track Fitting
(User supplied, overhead suspension rated and certified)

Secondary Suspension Point

Appropriate Track Fitting
(EG: AF-DSF)

Working load limits: No more than four (4) high (vertical)

The four (4) high vertical specification represents a static ratio of 7:1.
<table>
<thead>
<tr>
<th>LF Driver</th>
<th>Mid Driver</th>
<th>HF Driver</th>
<th>Horn</th>
<th>Rated Power*</th>
<th>System Impedance</th>
<th>Frequency Range (-10 dB)</th>
<th>Crossover Freq.</th>
<th>Nominal Sensitivity**</th>
<th>Dispersion</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR4702X</td>
<td>2206H</td>
<td>OASR</td>
<td></td>
<td>600</td>
<td>8</td>
<td>42Hz-20kHz</td>
<td>1.3 kHz</td>
<td>95 dB</td>
<td>85º x 85º</td>
<td>29 kg</td>
</tr>
<tr>
<td>SR4703X</td>
<td>2206H (x2)</td>
<td>--</td>
<td></td>
<td>--</td>
<td>600</td>
<td>42Hz-18kHz</td>
<td>1.2 kHz</td>
<td>--</td>
<td>85º x 85º</td>
<td>55.5 kg</td>
</tr>
<tr>
<td>SR4708X</td>
<td>2241G</td>
<td>--</td>
<td></td>
<td>600</td>
<td>4</td>
<td>38Hz-300Hz</td>
<td>9dB</td>
<td>--</td>
<td>85º x 85º</td>
<td>35.9 kg</td>
</tr>
<tr>
<td>SR4709X</td>
<td>2206H (x2)</td>
<td>--</td>
<td></td>
<td>600</td>
<td>4</td>
<td>50Hz-300Hz</td>
<td>10 dB</td>
<td>--</td>
<td>85º x 85º</td>
<td>43.5 kg</td>
</tr>
<tr>
<td>SR4722X</td>
<td>2206H</td>
<td>OASR</td>
<td></td>
<td>600</td>
<td>4</td>
<td>42Hz-18kHz</td>
<td>1.2 kHz</td>
<td>95 dB</td>
<td>85º x 85º</td>
<td>72.2 kg</td>
</tr>
<tr>
<td>SR4725X</td>
<td>2206H</td>
<td>M209-8A</td>
<td></td>
<td>2426H</td>
<td>600</td>
<td>35Hz-20kHz</td>
<td>1.2 kHz</td>
<td>97 dB</td>
<td>80º x 50º</td>
<td>62.1 lbs</td>
</tr>
<tr>
<td>SR4726X</td>
<td>2206H</td>
<td>MH1</td>
<td></td>
<td>2426H</td>
<td>600</td>
<td>35Hz-20kHz</td>
<td>1.2 kHz</td>
<td>101 dB</td>
<td>80º x 50º</td>
<td>83.5 kg</td>
</tr>
</tbody>
</table>

* IEC filtered random noise with a 6 dB crest factor
**1W@1m (2.83V for 8ohms, 2.00V for 4ohms, ave'd 500Hz-5kHz)

Specifications subject to change without notice

**DuraFlex**

Your SR-X loudspeaker system is finished in JBL’s DuraFlex™. DuraFlex is tough and inherently flexible and it is extremely resistant to knocks, scratches and scuffs. The DuraFlex finish on your SR-X speakers is actually much tougher than the plywood to which it is applied.

Note: SR-X enclosures are not paintable.

In the event that cosmetic damage occurs to your speakers a DuraFlex touch-up kit (PN 16677) is available from JBL Professional.

**Warranty & Contacting JBL**

These products are designed and backed by JBL Professional, the world leader in sound reinforcement. For complete JBL warranty information, to order replacement parts or to ask for clarifications to this manual, contact JBL Professional:

* Within the United States contact: Applications Dept JBL Professional PO Box 2200 8400 Balboa Blvd. Northridge, CA 91329

In the USA you may call Monday through Friday, 8:00 am to 5:00 pm Pacific Coast Time: (818) 894-8850

In other areas throughout the world: Contact the JBL Professional Distributor in your country.

A list of JBL Professional Distributors and U.S. Service Centers can be attained from the JBL Professional website:

www.jblpro.com