

<p>System Type: Frequency Response:</p> <p>Coverage Pattern: Crossover: Crossover Frequency: Sensitivity (1w @ 1m) / Max SPL: LF Driver: HF Driver: Power: Nominal Impedance full range: Bi-amp LF: Bi-amp HF: Suspension/Mounting: Connectors:</p> <p>Dimensions (H x W x D):</p> <p>Net Wt: Optional Accessories:</p>	<p>LSx1002 12-inch 2-Way, bass-reflex 72 Hz – 20 kHz (-10DB) 85 Hz – 18 kHz (-3 dB) 60 degree round 2-Way 3.5 k Hz 98dB /121dB 10-inch woofer 1-inch titanium Continuous / Program / Peak 8 ohms 200w /400w /800</p> <p>1-3/8-inch pole mount cup Two NL-4 Neutrik Speakon's Two ¼ TS phone jacks 18 in x 12.5 in x 11.5 in 480 mm x 320 mm x 295 mm 21 lb (10 kg) CVS1002A cover</p>	<p>LSx1202 12-inch 2-Way, bass-reflex 70 Hz – 20 kHz (-10DB) 76 Hz – 18 kHz (-3 dB) 90H x 60V 2-Way with Speaker Guard™ HF 2.5 k Hz 97dB /122dB 12-inch woofer 1-inch titanium Continuous / Program / Peak 8 ohms 300w /600w /1200 8 ohms 300w /600w /1200w 8 ohms 50w /100w /200w 1-3/8-inch pole mount cup Two NL-4 Neutrik Speakon's Two ¼ TS phone jacks 23 in x 15.5 in x 11.75 in 585 mm x 395 mm x 300 mm 33 lb (15 kg) CVS1202B cover</p>	<p>LSx1202A Active Bi-amp system</p> <p>Active LF / HF Limiters 2.5 k Hz 127dB</p> <p>Continuous / Peak 350W / 700W 8 ohms 300w / 600w 8 ohms 50w / 100w</p> <p>Two Bal. XLR One Bal. 1/4 TRS phone jack</p> <p>37 lb (17 kg)</p>	<p>LSx1202M 12-inch 2-Way, bass-reflex 70 Hz – 20 kHz (-10DB) 76 Hz – 18 kHz (-3 dB) 90H x 60V 2-Way with Speaker Guard™ HF 2.5 k Hz 97dB / 122dB 12-inch woofer 1-inch titanium Continuous / Program / Peak 8 ohms 300w /600w /1200 8 ohms 300w /600w /1200w 8 ohms 50w /100w /200w none Two NL-4 Neutrik Speakon's Two ¼ phone jacks 22.75 in x 15.5 in x 14.75 in 580 mm x 395 mm x 375 mm 33 lb (15 kg) CVS1202MA cover</p>	<p>LSx1202MA Active Bi-amp system</p> <p>Active LF / HF Limiters 2.5 k Hz 127dB</p> <p>Continuous / Peak 350W / 700W 8 ohms 300w / 600w 8 ohms 50w / 100w</p> <p>Two Bal. XLR One Bal. 1/4 TRS phone jack</p> <p>37 lb (17 kg)</p>
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<p>System Type: Frequency Response:</p> <p>Coverage Pattern: Crossover: Crossover Frequency: Sensitivity (1w @ 1m) / Max SPL: LF Driver: HF Driver: Power: Nominal Impedance full range: Bi-amp LF: Bi-amp HF: Suspension/Mounting: Connectors:</p> <p>Dimensions (H x W x D):</p> <p>Net Wt: Optional Accessories:</p>	<p>LSx1502 15-inch 2-Way, bass-reflex 47 Hz – 20 kHz (-10DB) 53 Hz – 18 kHz (-3 dB) 90H x 60V 2-Way with Speaker Guard™ HF 2.5 k Hz 100dB / 129dB 15-inch woofer 1-inch titanium Continuous / Program / Peak 8 ohms 400w /800w /1600w 8 ohms 400w /800w /1600w 8 ohms 50w /100w /200w 1-3/8-inch pole mount cup Two NL-4 Neutrik Speakon's Two ¼ TS phone jacks 25.75 in x 18.5 in x 11.75 in 655 mm x 470 mm x 300 mm 44 lb (20 kg) CVS1502B cover</p>	<p>LSx1502A Active Bi-amp system</p> <p>Active LF / HF Limiters 2.5 k Hz 127dB</p> <p>Continuous / Peak 350W / 700W 8 ohms 300w / 600w 8 ohms 50w / 100w</p> <p>Two Bal. XLR One Bal. 1/4 TRS phone jack</p> <p>49 lb (22.5 kg)</p>	<p>LSx1502M 15-inch 2-Way, bass-reflex 47 Hz – 20 kHz (-10DB) 53 Hz – 18 kHz (-3 dB) 90H x 60V 2-Way with Speaker Guard™ HF 2.5 k Hz 100dB / 129dB 15-inch woofer 1-inch titanium Continuous / Program / Peak 8 ohms 400w /800w /1600w 8 ohms 400w /800w /1600w 8 ohms 50w /100w /200w none Two NL-4 Neutrik Speakon's Two ¼ TS phone jacks 25.75 in x 18.5 in x 15.75 in 655 mm x 470 mm x 400 mm 44 lb (20 kg) CVS1502MB cover</p>	<p>LSx1502MA Active Bi-amp system</p> <p>Active LF / HF Limiters 2.5 k Hz 127dB</p> <p>Continuous / Peak 350W / 700W 8 ohms 300w / 600w 8 ohms 50w / 100w</p> <p>Two Bal. XLR One Bal. 1/4 TRS phone jack</p> <p>49 lb (22.5 kg)</p>
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<p>System Type: Frequency Response:</p> <p>Coverage Pattern: Crossover: Crossover Frequency: Sensitivity (1w @ 1m) / Max SPL: LF Driver: HF Driver: Power: Nominal Impedance full range: Bi-amp LF: Bi-amp MF: Bi-amp MF/HF: Suspension/Mounting: Connectors:</p> <p>Dimensions (H x W x D):</p> <p>Net Wt: Optional Accessories:</p>	<p>LSx1503 15-inch 3-Way, bass-reflex 46 Hz – 20 kHz (-10DB) 52 Hz – 18 kHz (-3 dB) 90H x 60V 3-Way with Speaker Guard™ HF 500Hz & 3.3 k Hz 101dB / 130dB 15-inch woofer 6-inch woofer 1-inch titanium Continuous / Program / Peak 8 ohms 400w /800w /1600w 8 ohms 400w /800w /1600w</p> <p>8 ohms 200w /400w /800w 1-3/8-inch pole mount cup Two NL-4 Neutrik Speakon's Two ¼ TS phone jacks 28.75 in x 18.75 in x 15 in 730 mm x 480 mm x 380 mm 58 lb (26.4 kg) CVS1503A cover</p>	<p>LSx1503A Active Tri-amp system</p> <p>Active LF/MF/HF Limiter 500Hz & 3.3 kHz 128 dB</p> <p>Continuous / Peak 425w / 850w 8 ohms 300w / 600w 8 ohms 75w / 150w 8 ohms 50w / 100w</p> <p>Two Bal. XLR One Bal. 1/4 TRS phone jack</p> <p>63 lb (28 kg)</p>	<p>LSx2153 Dual 15-inch 3-Way, bass-reflex 45 Hz – 20 kHz (-10DB) 51 Hz – 18 kHz (-3 dB) 90H x 60V 3-Way with Speaker Guard™ HF 350Hz, 2.5 k Hz 101dB / 130dB 15-inch woofer 15-inch Woofer 1-inch 1.5" Dia. titanium Continuous / Program / Peak 4 ohms 800w /1600w /3200 4 ohms 800w /1600w /3200</p> <p>8 ohms 50w / 100w none Two NL-4 Neutrik Speakon's Two ¼ TS phone jacks 43.75 in x 16.5 in x 15 in 1110 mm x 420 mm x 380 mm 73 lb (33 kg) CVS2153A cover</p>	<p>LSx1523 Dual 15-inch 3-Way, bass-reflex 43 Hz – 20 kHz (-10DB) 49 Hz – 18 kHz (-3 dB) 90H x 60V 3-Way with Speaker Guard™ HF 500 Hz, 2.5 kHz 101dB / 130dB Dual 15-inch woofer Dual 16-inch woofer 1-inch (1.5-inch Dia.) titanium Continuous / Program / Peak 4 ohms 800w /1600w /3200 4 ohms 800w /1600w /3200 4 ohms 150w /300w /600w 8 ohms 50w / 100w none Two NL-4 Neutrik Speakon's Two ¼ TS phone jacks 46.75 in x 22.5 in x 15 in 1190 mm x 570 mm x 380 mm 98 lb (45 kg) CVS1523A cover</p>	<p>LSx1523A Active Tri-amp system</p> <p>Active LF/MF/HF Limiter 500Hz & 3.3 k Hz 128dB</p> <p>Continuous / Peak 900W / 1800W 4 ohms 700w / 1400w 4 ohms 120w / 260w 8 ohms 80w / 160w</p> <p>Two Bal. XLR One Bal. 1/4 TRS phone jack</p> <p>106 lb (48 kg)</p>
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<p>System Type: Frequency Response:</p> <p>Active Protection Crossover: Crossover Frequency: Sensitivity (1w @ 1m): LF Driver: Power: Nominal Impedance full range: Suspension/Mounting: Connectors:</p> <p>Dimensions (H x W x D):</p> <p>Net Wt: Optional Accessories:</p>	<p>LSx1501 15-inch Sub, bass-reflex 37 Hz – 265 Hz (-10DB) 45 Hz – 150 Hz (-3 dB)</p> <p>Low Pass 150 Hz 97dB / 123dB 15-inch woofer Continuous / Program / Peak 8 ohms 400w /800w /1600w</p> <p>Top: 1-3/8-inch Pole Mount Cup Two NL-4 Neutrik Speakon Two ¼ TS phone jacks 23.5 in x 19.75 in x 22.75 in 600 mm x 505 mm x 580 mm 56 lb (26 kg) CVS1801A cover</p>	<p>LSx1801 18-inch Sub, bass-reflex 29 Hz – 265 Hz (-10DB) 35 Hz – 150 Hz (-3 dB)</p> <p>Low Pass 150 Hz 98dB / 127dB 18-inch woofer Continuous / Program / Peak 4 ohms 800w /1600w /3200</p> <p>Top: 1-3/8-inch Pole Mount Cup Two NL-4 Neutrik Speakon's Two ¼ TS phone jacks 23.5 in x 19.75 in x 22.75 in 600 mm x 505 mm x 580 mm 69 lb (31 kg) CVS1801A cover</p>	<p>LSx1801A Active SubWoofer system</p> <p>Active Sub Limiter Low Pass with High Pass Line Out 80 Hz or 120 Hz switchable 128dB</p> <p>Continuous / Peak 700W / 1400W</p> <p>Two Bal. XLR One Bal. 1/4 TRS phone jack</p> <p>77 lb (35 kg)</p>	<p>LSx1802 Dual 18-inch Sub, bass-reflex 24 Hz – 265 Hz (-10DB) 30 Hz – 150 Hz (-3 dB)</p> <p>Low Pass 150 Hz 102dB / 134dB Dual 18-inch woofer Continuous / Program / Peak 4 ohms 1600w /3200w / 6400w none Two NL-4 Neutrik Speakon's Two ¼ TS phone jacks 23.5 in x 40 in x 22.75 in 600 mm x 1020 mm x 580 mm 122 lb (55 kg) CVS1802A cover</p>
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LSx1501
LSx1801/LSx1801A

Carvin's new **LSx (Live Sound) Series** loudspeakers give new meaning to high performance loudspeaker systems for today's club scene. Building upon the company's long-standing reputation for state-of-the-art systems offering great sonic performance coupled with proven reliability and solid value, the new **LSx Series** loudspeakers deliver all the features musicians and mobile DJs demand.

Consisting of ten models encompassing five 2-way systems, three 3-way systems, and two subwoofer systems, the **LSx Series** is ideally suited to address a wide range of sound reinforcement system requirements—from intimate clubs to large scale, high impact music venues. With key features like steel grills to protect the drivers, recessed steel handles for easy transport, high order – low loss biampable crossovers that ensure high intelligibility of spoken word and accurate reproduction of music sources, plus Neutrik Speakon™ and quarter-inch connectors across all models, Carvin's new **LSx Series** loudspeakers are just what your audience has been waiting for!

Going one step further, all **LSx Series** loudspeaker enclosures utilize multi-layered, cross grain laminated plywood construction. Why is this important? Unlike other materials, plywood construction results in rigid enclosure walls that reduce flex and sonic coloration caused by cabinet resonance, with the added benefit of a structurally more robust enclosure designed to handle the rigors of the road. Finished with great-looking, rugged Duratex™ sprayed on coverings, Carvin's new **LSx Series** loudspeakers look every bit as compelling as they sound!

RECEIVING INSPECTION
INSPECT YOUR LOUDSPEAKER FOR DAMAGE which may have occurred during shipping. If damage is found, please notify the shipping company & CARVIN.
SAVE THE CARTON & ALL PACKING MATERIALS. In the event you have to re-ship your unit, always use the original carton and packing material. CARVIN and the shipping company are not liable for any damage caused by improper packing. SAVE YOUR INVOICE. It will be required for warranty service if needed in the future.
SHIPMENT SHORTAGE. If you find items missing, they may have been shipped separately. Please allow several days for the rest of your order to arrive before inquiring.
RECORD THE SERIAL NUMBER on the enclosed warranty card for your records. Return the warranty card with your name and comments to us, or register online at:

USA customers register online at: www.carvin.com/registration
All other countries register online at: www.carvinworld.com/registration

LIMITED WARRANTY
Parts and labor are covered for 3 years on manufacturer's defects. Warranty does not cover burned out drivers caused by excessive power or distortion, or physical damage caused by general use, moisture or dust. **CAUTION:** Square wave distortion from power amps can destroy drivers much faster than clean RMS power. The power generated by the APS internal power amps has the capacity to damage the drivers, in which case they would not be covered under warranty.

SERVICE
In the USA, please call 800-854-2235 for a RMA number (return authorization number). Write this number on the box and enclose a description of the problem. Prepay to Carvin 12340 World Trade Drive, SD, CA 92128

Outside the USA, contact your dealer or go to <http://www.carvinworld.com> for your nearest service center. Include a written description of the problem with serial number and date of purchase.



Powered Speakers



Carvin's **APS (Active Powered Systems)** amplification packs take the guesswork out of selecting the ideal power source to drive your loudspeakers. With bi-amped and tri-amped models designed to handle the most demanding applications, the APS amplifiers are perfectly mated with—the **LSx1502A**, **LSx1503A**, and **LSx1523A**—creating optimally designed powered loudspeaker systems that are ready for anything you throw at them. There's even one APS power pack created specifically to generate the bone crushing impact of our **LSx1801A** subwoofer. APS-based LS loudspeaker systems make setup and operation easier as well, with less gear to haul. Feed your mixer's output directly to these loudspeaker systems, and you're ready to rock!

APS POWER AMP SPECS:

2-WAY BI-AMPED – LSx1502A/LSx1502MA–LSx1202A/LSx1202MA

350w Continuous/700w Peak RMS (Hi Freq: 50w @ 16 ohms, Lo Freq: 300w @ 8 ohms)

3-WAY TRI-AMPED – LSx1503A

425w Continuous/850w Peak RMS (Hi Freq: 50w @ 16ohms, Mid Freq: 75w @ 16 ohms, Lo Freq: 300w @ 8 ohms)

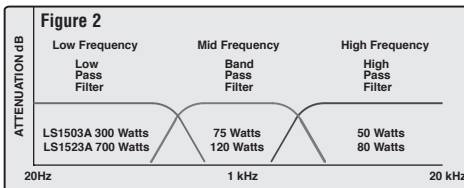
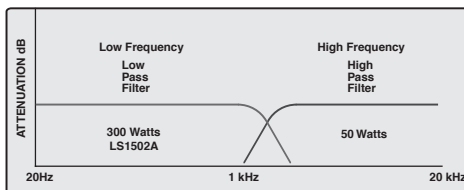
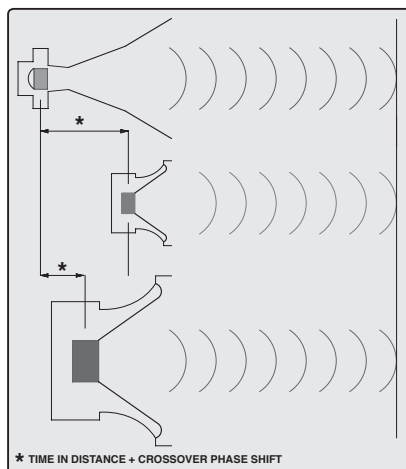
3-WAY TRI-AMPED – LSx1523A

900w Continuous/1800w Peak RMS (Hi Freq: 80w @ 16 ohms, Mid Freq: 120w @ 8 ohms, Lo Freq: 700w @ 4 ohms)

SUB WOOFER – LSx1801A 700w Continuous/1400w Peak RMS @ 4 ohms

ALL MODELS: FREQ. RESPONSE: 20 to 20kHz, THD less than .05% @ 90%, .1% at full power, SLEW RATE: 50V/μs, ACTIVE EQ: ± 6 dB @ 100 Hz, 100 Hz to 5 kHz mid sweep, 10kHz, EQ bypass switch, (SUB WOOFER: 24dB/Octave @ 80 & 120 Hz) • Relay muting and Speaker Guard™ protection, Peak and protection & power on indicators, On-Off power switch, Power Req. 120VAC 60 Hz . 240 AC/50Hz model available

All loudspeaker components are Time-Aligned for greater intelligibility and clarity



Bi-amped or Tri-amped – active crossovers and power amps

APS HOOK-UP

1. INPUT/THRU OUTPUT Use the balanced XLR or 1/4" connectors featured on the rear control panel. Using a balanced source will reduce noise which may be picked up by the cable. You may DAISY-CHAIN as many APS systems as you wish. All connectors are wired in parallel.

2. EQUALIZATION The APS powered loudspeakers offer a by passable 3-band mid sweep equalizer for custom tuning to the acoustical environment. The EQ system is engineered specifically for the APS, featuring a boost and cut range of ±6dB to prevent radical adjustments that could otherwise compromise the sound of the system. The Mid-band sweep is particularly useful for enhancing critical mid range frequencies for stage monitoring or for cutting certain frequencies to compensate for room resonances. Press the "EQ IN" switch to activate the equalizer. The BLUE LED displays when the EQ is active.

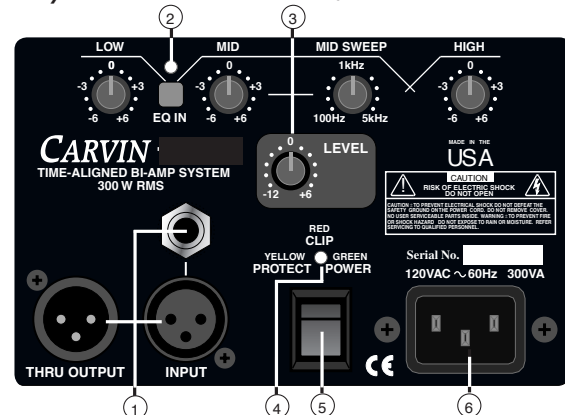
3. LEVEL CONTROL The LEVEL control adjusts the output volume of the APS. Start by setting the LEVEL at "0". Weak input signals can be boosted by setting the LEVEL at "+6". Strong signals can be reduced by turning the LEVEL toward "-12". The RED LED will flash if the internal power amps start to clip. Turn the LEVEL control down to avoid clipping. Damage to the drivers can result from operating at a level where the RED CLIP LED is constantly illuminated.

4. POWER/PROTECT/CLIP INDICATOR Power up your audio source first, then turn on the APS with the power switch. When the system is active, the LED will indicate GREEN. When shutting down turn off the APS first, then turn off the mixer. If any of the power amps are clipping, the LED will indicate RED and you should reduce the output level. If the system should go into protect mode, the LED will indicate YELLOW and the power amps will shut off. This may occur if; a) the system is overheated due to clipping the power amps for an extended period of time, b) one of the internal drivers developed a short or c) the power amps require service.

5. POWER Push this switch to the UP position to apply power to the unit. The POWER LED will light to show the system is on.

6. AC POWER Use a standard grounded AC cord. Whenever possible, use dedicated circuits for powered speakers. The powered speakers are available in either 120V or 240V models.

APS BI-AMP/TRI-AMP REAR PANEL:

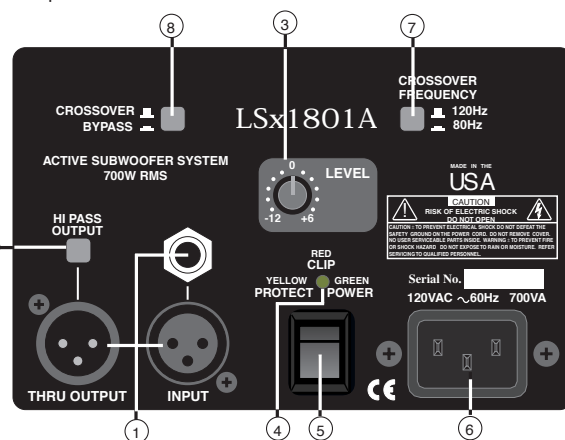


LSx1801 SUBWOOFER

7. CROSSOVER FREQUENCY SWITCH The CROSSOVER FREQUENCY switch selects the crossover point for the APS. The 120Hz out setting is generally used with small to mid sized speakers in your setup. Almost all 12" and 15" woofers will benefit from the 120Hz setting. The 80Hz (switch in) setting is generally used with larger 18" woofers.

8. CROSSOVER BYPASS SWITCH The crossover bypass switch bypasses the internal active crossover allowing the use of an outboard active crossover.

9. HI PASS OUTPUT SWITCH The hi pass output switch changed the output of the XLR thru output from a parallel of the Input XLR to a hi pass (all frequencies above) the crossover switch setting. This is good for going to a top cabinet that can not handle the sub's low frequencies.



Passive Non-Powered Models



MULTI-WAY CROSSOVER CONNECTIONS (non-powered speakers) Use either 1/4" or Speakon™ cables for connecting to the power amp and daisy chaining to an additional speaker. For high powered and biamp applications, use Speakon™ cables only.

- 1/4" inputs from power amp output (full range input only).
- Speakon™ input from power amp (full range or biamp).

Note: the Speakon pin configuration for biamping is:

- 1+ LF Positive / 1- LF Negative 2+ MF/HF Positive / 2- MF/HF Negative

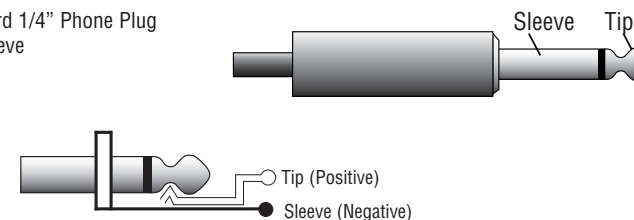
- Full Range/Biamp mode switch
- Speakon™ through wired in parallel with input Speakon™.
- 1/4" through wired in parallel with 1/4" input.

SUGGESTIONS FOR OPTIMAL PERFORMANCE

- To help control feedback and to correct for venue characteristics, use a graphic EQ.
- For optimal coverage and dispersion, elevate high frequency horn above eye level.
- For optimal headroom, select an amplifier with a power capacity equal to or up to double the rated program power capacity of the loudspeaker system.
- Ensure all amplifiers are supplied and connected to properly rated AC power circuits. Underpowering amplifiers may cause premature clipping distortion.

SPEAKER CABLES Use either Carvin's PRO50S speaker cable for up to 50' or high-current 12GA Speakon™ cables for lengths up to 150'. 18GA cables are not recommended. You can DAISY-CHAIN up to one additional speaker per cable by using the OUTPUT connector. Be sure the total impedance to the amplifier is not lower than the amplifier's minimum impedance.

Standard 1/4" Phone Plug
Tip-Sleeve



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN

THIS UNIT CONTAINS HIGH VOLTAGE INSIDE! REFER SERVICING TO A QUALIFIED TECHNICIAN

IMPORTANT! FOR YOUR PROTECTION, PLEASE READ THE FOLLOWING:

WATER AND MOISTURE: Do not expose this appliance to rain or moisture. Do not use this apparatus near water (in a wet basement, near a swimming pool, bathtub etc.). Care should be taken so that liquids are not spilled or splashed onto the unit. Do not place objects filled with liquids such as beverage containers on this apparatus.

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 unit. Unplug during lightning storms.

GROUNDING OR POLARIZATION: Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

POWER CORD: Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs and the point where they exit from the appliance. The plug or power inlet is the disconnect device and shall remain readily operable.

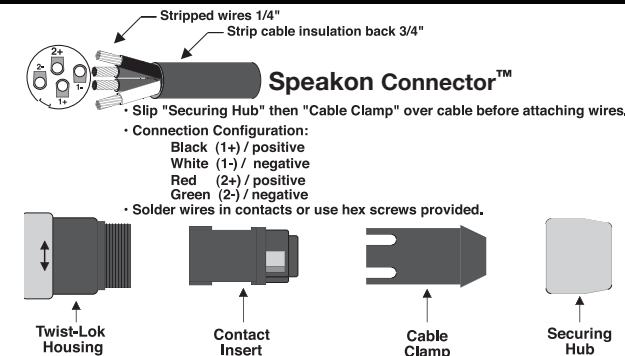
PLACEMENT: Do not block ventilation openings. Do not install near heat sources such as radiators, stoves or other products that produce heat. Do not install in a confined area. Use only mounting hardware such as brackets and tripods recommended by the manufacturer.

SERVICING: The user should not attempt to service the unit. All servicing should be referred to qualified service personnel.

FUSING: If your unit is equipped with a fuse receptacle, replace only with the same type fuse. Refer to replacement text on the unit for correct fuse type.

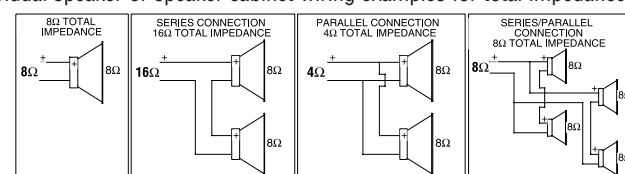
SUBWOOFER CROSSOVER CONNECTIONS

- 1/4" inputs from power amp output.
 - Speakon™ input from power amp.
- Note: the Speakon pin configuration is:
- 1+ LF Positive / 1- LF Negative 2+ not connected / 2- not connected
- Crossover/Bypass mode switch to bypass internal crossover (must use active crossover when in bypass mode)
 - Speakon™ through wired in parallel with input Speakon™.
 - 1/4" through wired in parallel with 1/4" input.



TYPICAL LOUSPEAKER IMPEDANCE CONFIGURATIONS

Individual speaker or speaker cabinet wiring examples for total impedance.



LIMITED WARRANTY

Your Carvin product is guaranteed against failure for 3 YEARS unless otherwise stated. Carvin will service and supply all parts at no charge to the customer providing the unit is under warranty. Shipping costs are the responsibility of the customer. CARVIN DOES NOT PAY FOR PARTS OR SERVICING OTHER THAN OUR OWN. A COPY OF THE ORIGINAL INVOICE IS REQUIRED TO VERIFY YOUR WARRANTY. This warranty does not cover, and no liability is assumed, for damage due to: natural disasters, accidents, abuse, loss of parts, lack of reasonable care, incorrect use, or failure to follow instructions. This warranty is in lieu of all other warranties, expressed or implied. No representative or person is authorized to represent or assume for Carvin any liability in connection with the sale or servicing of Carvin products. CARVIN SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

When RETURNING merchandise to the factory, you must call for a return authorization number. If your unit is out of warranty, you will be charged the current FLAT RATE for parts and labor to bring your unit up to factory specifications.

HELP SECTION

1) UNIT WILL NOT TURN ON: Check the power to the AC cord. Check for tripped circuit breakers, unplugged extension cords or power-strip switches that may be turned off. Check the fuse or circuit breaker on the unit if available. If the fuse has been replaced with the proper value and the fuse fails again, or the internal circuit breaker activates after reset, the unit will require servicing.

2) NO OUTPUT with POWER light ON: Shipping damage will be the primary reason for your product to not function properly. Please give us a call to help you determine the problem.

3) KEEP YOUR UNIT LOOKING NEW: Use only a dry cloth to wipe the control and venting areas. Surfaces without openings may be cleaned with a damp cloth.