



SST-Modules

REFERENCE MANUAL

This manual describes the following models:

SST-4622

SST-3632

SST-4632

SST-SBSC 3632T

SST-SBSC 4632T

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Obtaining Other Language Versions:

To obtain information in another language about the use of this product, please
contact your local Crown Distributor. If you need assistance locating your local
distributor, please contact Crown at 574-294-8200.

Note: The information provided in this manual was deemed accurate as of the
publication date. However, updates to this information may have occurred. To
obtain the latest version of this manual, please visit the Crown website at www.crownaudio.com.



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H A Harman International Company

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STOP!

Crown SST modules may only be installed by Crown or an authorized Warranty Service Center. The name of a Service Center near you may be found online at www.crownaudio.com, or by contacting Crown Factory Service at:

Crown Factory Service

1718 W. Mishawaka Rd., Elkhart, IN 46515 USA
Phone: 800-342-6939 (North America, Puerto Rico and Virgin Islands)
or 574-294-8200 Fax: 574-294-8301
Internet: <http://www.crownaudio.com>

The information furnished in this manual does not include all of the details of design, production, or variations of the equipment. Nor does it cover every possible situation which may arise during operation or maintenance. If you need special assistance beyond the scope of this manual, please contact Crown Customer Service.



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1 Welcome

Crown® *System Solution Topology* (SST) modules bring you superior control and flexibility with the convenience and cost savings of plug-in processing. SSTs plug quickly and easily into the back of your amp.

When you use a Crown SST module to split the power drive to the loudspeaker components, you gain a wide range of advantages, including:

1. Increased gain because the insertion loss of passive crossover networks is eliminated.
2. Consistent power bandwidth: power bandwidth is changed in multi-way passive systems if transducers change impedance or vaporize (blow up).
3. Levels can be matched more accurately to the components.
4. Quicker troubleshooting.
5. Improved dynamic range.
6. Better protection of components due to steep 24-dB/octave filters.

With hard-wired precision components, SST modules deliver consistent bandwidth control, more accurate level matching, and increased gain

(with none of the insertion loss found with passive crossover networks). Compact and versatile, Crown SST modules continue the Crown tradition for fast setup, great-sounding output and exceptional value.

1.1 Wiring

All SST modules feature balanced inputs. Some models also feature balanced outputs for routing signals to other amplifiers in biamped and triamped systems.

Following are the standard wiring conventions to follow when wiring balanced connections to SST modules:

XLR (AES Standard)

Pin 1: $\frac{\perp}{-}$

Pin 2: +

Pin 3: -

Tip Ring Sleeve

Tip: +

Ring: -

Sleeve: $\frac{\perp}{-}$

Barrier Block and Terminal Block connections should be wired as marked on the SST front panel.

The SST modules described in this manual are designed specifically for use with JBL® ScreenArray® cinema speaker systems. Each SST model is optimized for use with one specific JBL ScreenArray speaker model.

2 SST-4622

The SST-4622 provides custom crossover and equalization optimized for the JBL ScreenArray model 4622 cinema speaker system.

2.1 System Setup

Connect your system components as shown in Figure 2.2.

Note: The amplifier should be placed in Stereo (Dual) mode.

Removable Terminal Block Input Connector

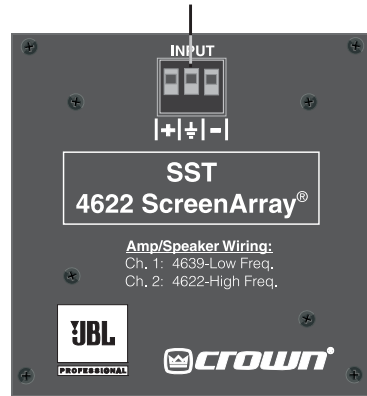


Figure 2.1 SST-4622 Front Panel Connector

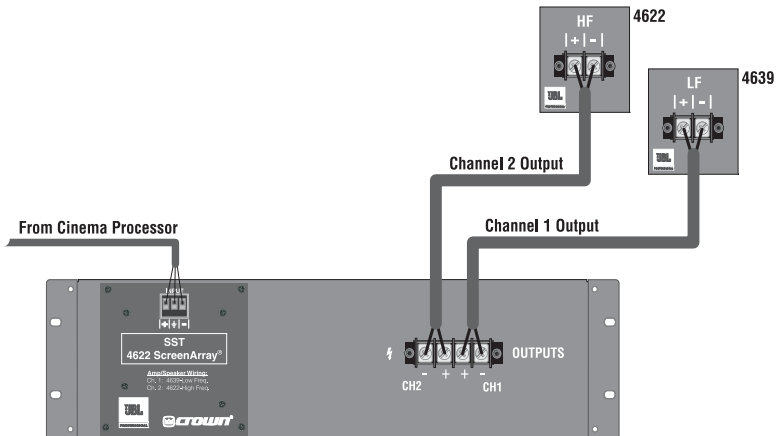


Figure 2.2 Stereo configuration using a Crown SST-compatible amplifier and the SST-4622 module.

2.2 Specifications

Frequency Response: See Figure 2.3.

Signal to Noise Ratio: 90 dB, A weighted.

Input Impedance: 20 k ohms balanced,
10 k ohms unbalanced.

Connectors

Input: Electronically Balanced, 3-position removable terminal block.

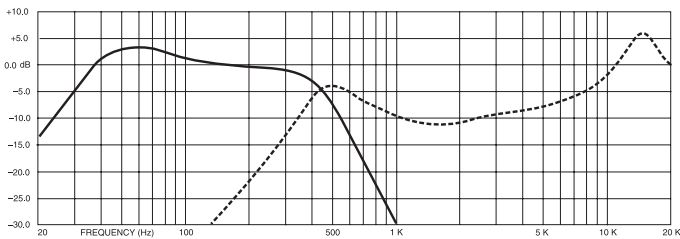


Figure 2.3 SST-4622 Frequency Response

3 SST-3632

The SST-3632 provides custom crossover and equalization optimized for the JBL ScreenArray model 3632 cinema speaker system.

3.1 System Setup

Connect your system components as shown in Figure 3.2.

Note: The amplifier should be placed in Stereo (Dual) mode.

Removable Terminal Block Input Connector



Figure 3.1 SST-3632 Front Panel Connector

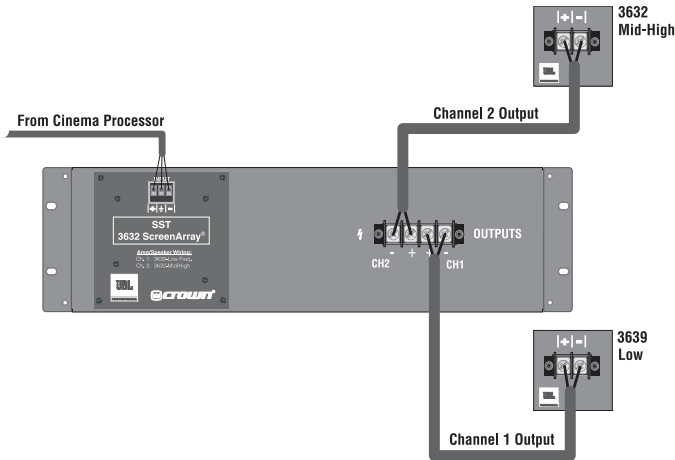


Figure 3.2 Stereo configuration using a Crown SST-compatible amplifier and the SST-3632 module.

3.2 Specifications

Frequency Response: See Figure 3.3.

Signal to Noise Ratio: 90 dB, A weighted.

Input Impedance: 20 k ohms balanced,
10 k ohms unbalanced.

Connectors

Input: Electronically Balanced, 3-position removable terminal block.

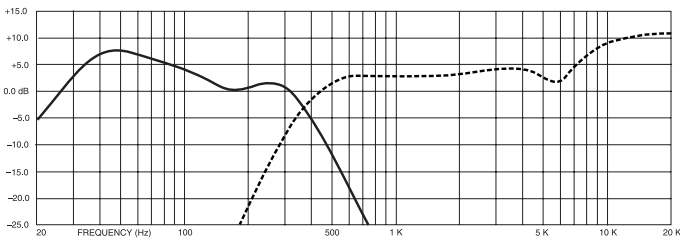


Figure 3.3 SST-3632 Frequency Response

4 SST-4632

The SST-4632 provides custom crossover and equalization optimized for the JBL ScreenArray model 4632 cinema speaker system.

4.1 System Setup

Connect your system components as shown in Figure 4.2.

Note: The amplifier should be placed in Stereo (Dual) mode.

Removable Terminal Block Input Connector

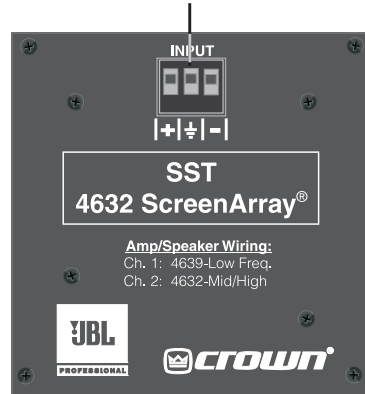


Figure 4.1 SST-4632 Front Panel Connector

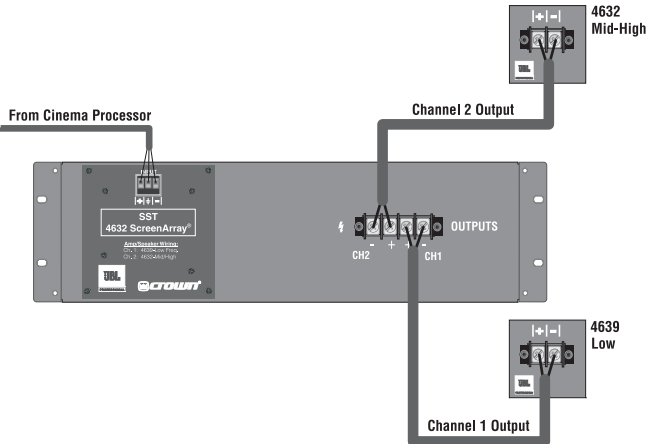


Figure 4.2 Stereo configuration using a Crown SST-compatible amplifier and the SST-4632 module.

4.2 Specifications

Frequency Response: See Figure 4.3.

Signal to Noise Ratio: 90 dB, A weighted.

Input Impedance: 20 k ohms balanced, 10 k ohms unbalanced.

Connectors

Input: Electronically Balanced, 3-position removable terminal block.

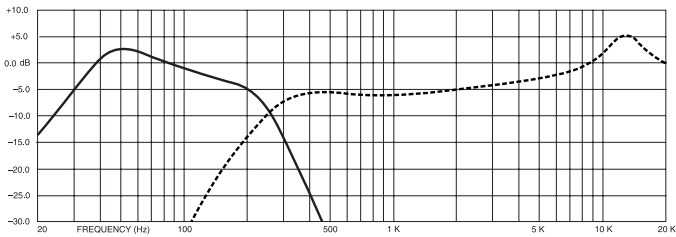


Figure 4.3 SST-4632 Frequency Response

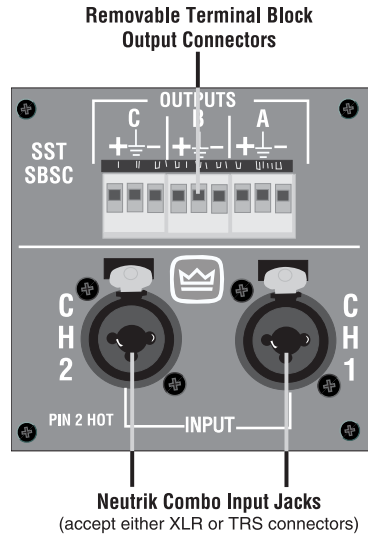
5 SST-SBSC 3632T

The *SST-SBSC 3632T* is an SST-SBSC factory-configured to provide crossover, equalization and signal routing specifically for the triamped JBL ScreenArray model 3632T cinema speaker system.

5.1 System Setup

Your system should be wired as shown in Figure 5.2.

Note: The amplifier should be placed in Stereo (Dual) mode.



Neutrik Combo Input Jacks
(accept either XLR or TRS connectors)

Figure 5.1 SST-SBSC 3632T Front Panel Connectors

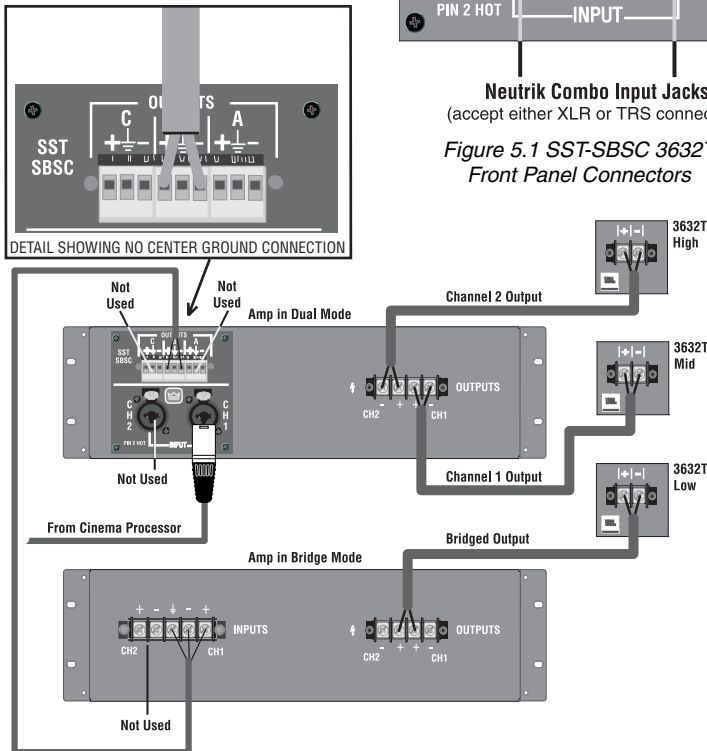


Figure 5.2 SST-SBSC 3632T Screen Channel Wiring Left, Center and Right Screen Channels Wired Identically

5.2 Specifications

Performance

Frequency Response: See Figure 5.3.

Signal to Noise (A-Weighted):
Better than 85 dB below rated power.

Input Impedance: 20 k ohms balanced, 10 k ohms unbalanced.

Output Impedance: 600 ohms balanced.

Total Harmonic Distortion (THD):
1 kHz rated power, less than 0.1% THD.

Crosstalk: > 50 dB from 20 Hz to 20 kHz.

Maximum Output: +18 dBm into 600 ohms.

Connectors

Input: Neutrik® Combo jacks.

Output: Removable terminal block.

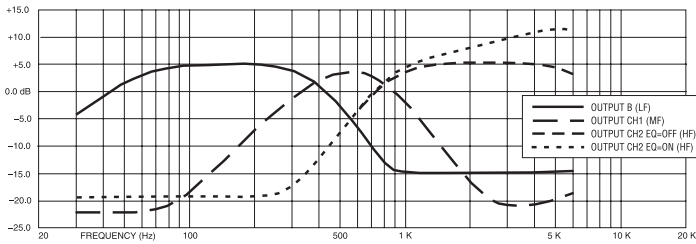


Figure 5.3 SST-SBSC 3632T Frequency Response

6 SST-SBSC 4632T

The SST-SBSC 4632T is an SST-SBSC factory-configured to provide crossover, equalization and signal routing specifically for the triamped JBL ScreenArray model 4632T cinema speaker system.

6.1 System Setup

Your system should be wired as shown in Figure 6.2.

Note: The amplifier should be placed in Stereo (Dual) mode.

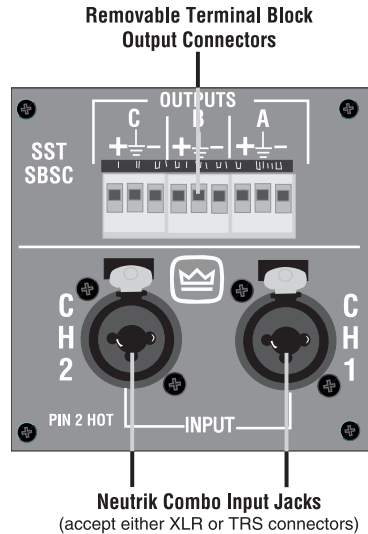


Figure 6.1 SST-SBSC 4632T Front Panel Connectors

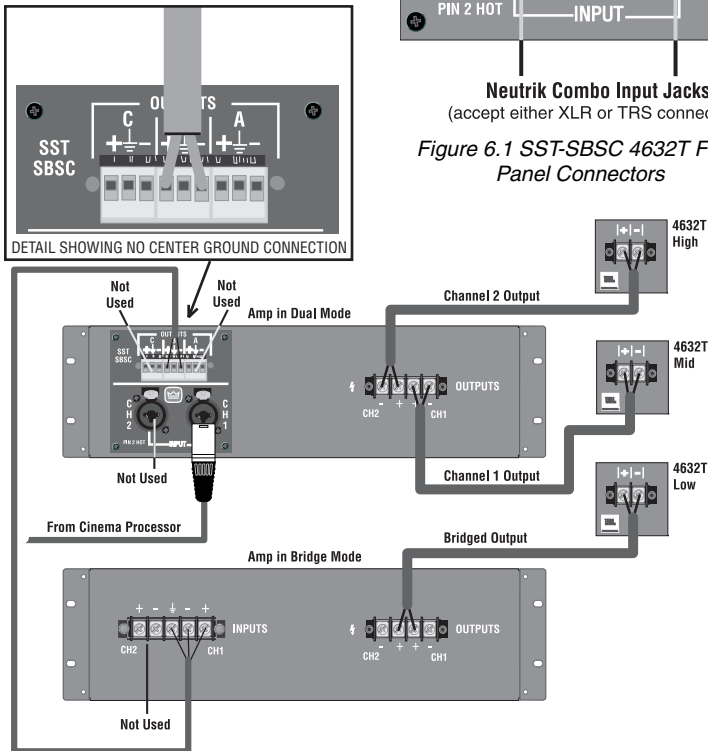


Figure 6.2 SST-SBSC 4632T Screen Channel Wiring
Left, Center and Right Screen Channels Wired Identically

6.2 Specifications

Performance

Frequency Response: See Figure 6.3.

Signal to Noise (A-Weighted):
Better than 85 dB below rated power.

Input Impedance: 20 k ohms balanced, 10 k ohms unbalanced.

Output Impedance: 600 ohms balanced.

Total Harmonic Distortion (THD):
1 kHz rated power, less than 0.1% THD.

Crosstalk: > 50 dB from 20 Hz to 20 kHz.

Maximum Output: +18 dBm into 600 ohms.

Connectors

Input: Neutrik® Combo jacks.

Output: Removable terminal block.

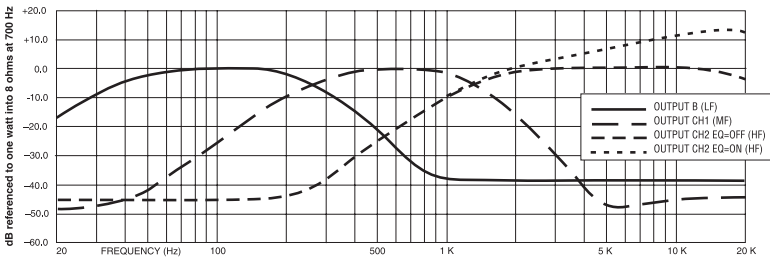


Figure 6.3 SST-SBSC 4632T Frequency Response



7 Service

We recommend that accessories requiring service be returned with the product in which they are installed. When sending in the amplifier and accessory, please refer to the amplifier service section for more information. If you choose to have only the accessory serviced, please follow instructions below

7.1 International and Canada Service

Service may be obtained from an authorized service center. (Contact your local Crown/Amcron representative or our office for a list of authorized service centers.) To obtain service, simply present the bill of sale as proof of purchase along with the defective unit to an authorized service center. They will handle the necessary paperwork and repair.

Remember to transport your unit in the original factory pack.

7.2 US Service

Service may be obtained in one of two ways: from an authorized service center or from the factory. You may choose either. It is important that you have your copy of the bill of sale as your proof of purchase.

7.2.1 Service at a US Service Center

This method usually saves the most time and effort. Simply present your bill of sale along with the defective unit to an authorized service center to obtain service. They will handle the necessary paperwork and repair. Remember to transport the unit in the original factory pack. A list of authorized service centers in your area can be obtained from Crown Factory Service, or online from <http://www.crownaudio.com/support/servcent.htm>.

7.2.2 Factory Service

Crown accepts no responsibility for non-serviceable product that is sent to us for factory repair. It is the owner's responsibility to ensure that their product is serviceable prior to sending it to the factory. Serviceable product list is available at <http://crownweb.crownintl.com/crownrma/>. For more information, please contact us direct.

A Service Return Authorization (SRA) is required for product being sent to the factory for repair. An SRA can be completed online at www.crownaudio.com/support/factserv.htm. If you do not have access to the web, please call Crown's Customer Service at 574.294.8200 or 800.342.6939 extension 8205.

For warranty service, we will pay for ground shipping both ways in the United States. Contact Crown Customer Service to obtain prepaid shipping labels prior to sending the unit. Or, if you prefer, you may prepay the cost of shipping, and Crown will reimburse you. Send copies of the shipping receipts to Crown to receive reimbursement.

Your repaired unit will be returned via UPS ground. Please contact us if other arrangements are required.

7.2.3 Factory Service Shipping Instructions:

1. Service Return Authorization (SRA) is required for product being sent to the factory for service. Please complete the SRA by going to www.crownaudio.com/support/factserv.htm. If you do not have access to our website, call 1.800.342.6939, extension 8205 and we'll create the SRA for you.
2. See packing instructions that follow.
3. Ship product to:
CROWN AUDIO FACTORY SERVICE
1718 W MISHAWKA RD.
ELKHART, IN 46517
4. Use a bold black marker and write the SRA number on three sides of the box.
5. Record the SRA number for future reference. The SRA number can be used to check the repair status.

7 Service

7.2.4 Packing Instructions

Important: These instructions must be followed. If they are not followed, Crown Audio, Inc. assumes no responsibility for damaged goods and/or accessories that are sent with your unit.

1. Fill out and include the Crown Audio Factory Service Information sheet in the back of this manual.
2. Do not ship any accessories (manuals, cords, hardware, etc.) with your unit. These items are not needed to service your product. We will not be responsible for these items.
3. When shipping your Crown product, it is important that it has adequate protection. We recommend you use the original pack material when returning the product for repair. If you do not have the original box, please call Crown at 800.342.6939 or 574.294.8210 and order new pack material. (Do not ship your unit in a wood or metal cabinet.)
4. If you provide your own shipping pack, the minimum recommended requirements for materials are as follows:
 - a. 200 P.S.I. burst test, Double-Wall carton that allows for 2-inch solid Styrofoam on all six sides of unit or 3 inches of plastic bubble wrap on all six sides of unit.
 - b. Securely seal the package with an adequate carton sealing tape.
 - c. Do not use light boxes or "peanuts". Damage caused by poor packaging will not be covered under warranty.
5. Enclose the completed Crown Audio Factory Service Information form (or securely attach it to the outside of carton) and re-seal the shipping pack with a sturdy carton sealing tape.

7.2.5 Estimate Approval

Approval of estimate must be given within 90 days after being notified by Crown Audio Inc. Units still in the possession of Crown after 90 days of the estimate will become the property of Crown Audio Inc.

7.2.6 Payment of Non-Warranty Repairs

Payment on out-of-warranty repairs must be received within 90 days of the repair date. Units unclaimed after 90 days become the property of Crown Audio Inc.

If you have any questions, please contact Crown Factory Service.

Crown Factory Service

1718 W. Mishawaka Rd.
Elkhart, IN 46517 U.S.A.

Telephone:

574.294.8200
800.342.6939 (North America,
Puerto Rico, and Virgin Islands only)

Facsimile:

574.294.8301 (Technical Support)
574.294.8124 (Factory Service)

Internet:

<http://www.crownaudio.com>



UNITED STATES & CANADA

SUMMARY OF WARRANTY

Crown International, Inc., 1718 West Mishawaka Road, Elkhart, Indiana 46517-4095 U.S.A. warrants to you, the ORIGINAL PURCHASER and ANY SUBSEQUENT OWNER of each NEW Crown product, for a period of three (3) years from the date of purchase by the original purchaser (the "warranty period") that the new Crown product is free of defects in materials and workmanship. We further warrant the new Crown product regardless of the reason for failure, except as excluded in this Warranty.

ITEMS EXCLUDED FROM THIS CROWN WARRANTY

This Crown Warranty is in effect only for failure of a new Crown product which occurred within the Warranty Period. It does not cover any product which has been damaged because of any intentional misuse, accident, negligence, or loss which is covered under any of your insurance contracts. This Crown Warranty also does not extend to the new Crown product if the serial number has been defaced, altered, or removed.

WHAT THE WARRANTOR WILL DO

We will remedy any defect, regardless of the reason for failure (except as excluded), by repair, replacement, or refund. We may not elect refund unless you agree, or unless we are unable to provide replacement, and repair is not practical or cannot be timely made. If a refund is elected, then you must make the defective or malfunctioning product available to us free and clear of all liens or other encumbrances. The refund will be equal to the actual purchase price, not including interest, insurance, closing costs, and other finance charges less a reasonable depreciation on the product from the date of original purchase. Warranty work can only be performed at our authorized service centers or at the factory. Warranty work for some products can only be performed at our factory. We will remedy the defect and ship the product from the service center or our factory within a reasonable time after receipt of the defective product at our authorized service center or our factory. All expenses in remedying the defect, including surface shipping costs in the United States, will be borne by us. (You must bear the expense of shipping the product between any foreign country and the port of entry in the United States and all taxes, duties, and other customs fees for such foreign shipments.)

HOW TO OBTAIN WARRANTY SERVICE

You must notify us of your need for warranty service within the warranty period. All components must be shipped in a factory pack, which, if needed, may be obtained from us free of charge. Corrective action will be taken within a reasonable time of the date of receipt of the defective product by us or our authorized service center. If the repairs made by us or our authorized service center are not satisfactory, notify us or our authorized service center immediately.

DISCLAIMER OF CONSEQUENTIAL & INCIDENTAL DAMAGES

YOU ARE NOT ENTITLED TO RECOVER FROM US ANY INCIDENTAL DAMAGES RESULTING FROM ANY DEFECT IN THE NEW CROWN PRODUCT. THIS INCLUDES ANY DAMAGE TO ANOTHER PRODUCT OR PRODUCTS RESULTING FROM SUCH A DEFECT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

WARRANTY ALTERATIONS

No person has the authority to enlarge, amend, or modify this Crown Warranty. This Crown Warranty is not extended by the length of time which you are deprived of the use of the new Crown product. Repairs and replacement parts provided under the terms of this Crown Warranty shall carry only the unexpired portion of this Crown Warranty.

DESIGN CHANGES

We reserve the right to change the design of any product from time to time without notice and with no obligation to make corresponding changes in products previously manufactured.

LEGAL REMEDIES OF PURCHASER

THIS CROWN WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. No action to enforce this Crown Warranty shall be commenced after expiration of the warranty period.

THIS STATEMENT OF WARRANTY SUPERSEDES ANY OTHERS CONTAINED IN THIS MANUAL FOR CROWN PRODUCTS.

**THREE YEAR
FULL WARRANTY**

WORLDWIDE EXCEPT US & CANADA



Crown International, Inc., 1718 West Mishawaka Road, Elkhart, Indiana 46517-4095 U.S.A. warrants to you, the ORIGINAL PURCHASER and ANY SUBSEQUENT OWNER of each NEW Crown1 product, for a period of three (3) years from the date of purchase by the original purchaser (the "warranty period") that the new Crown product is free of defects in materials and workmanship, and we further warrant the new Crown product regardless of the reason for failure, except as excluded in this Crown Warranty.

1 Note: If your unit bears the name "Amcron," please substitute it for the name "Crown" in this warranty.

ITEMS EXCLUDED FROM THIS CROWN WARRANTY

This Crown Warranty is in effect only for failure of a new Crown product which occurred within the Warranty Period. It does not cover any product which has been damaged because of any intentional misuse, accident, negligence, or loss which is covered under any of your insurance contracts. This Crown Warranty also does not extend to the new Crown product if the serial number has been defaced, altered, or removed.

WHAT THE WARRANTOR WILL DO

We will remedy any defect, regardless of the reason for failure (except as excluded), by repair, replacement, or refund. We may not elect refund unless you agree, or unless we are unable to provide replacement, and repair is not practical or cannot be timely made. If a refund is elected, then you must make the defective or malfunctioning product available to us free and clear of all liens or other encumbrances. The refund will be equal to the actual purchase price, not including interest, insurance, closing costs, and other finance charges less a reasonable depreciation on the product from the date of original purchase. Warranty work can only be performed at our authorized service centers. We will remedy the defect and ship the product from the service center within a reasonable time after receipt of the defective product at our authorized service center.

HOW TO OBTAIN WARRANTY SERVICE

You must notify your local Crown importer of your need for warranty service within the warranty period. All components must be shipped in the original box. Corrective action will be taken within a reasonable time of the date of receipt of the defective product by our authorized service center. If the repairs made by our authorized service center are not satisfactory, notify our authorized service center immediately.

DISCLAIMER OF CONSEQUENTIAL & INCIDENTAL DAMAGES

YOU ARE NOT ENTITLED TO RECOVER FROM US ANY INCIDENTAL DAMAGES RESULTING FROM ANY DEFECT IN THE NEW CROWN PRODUCT. THIS INCLUDES ANY DAMAGE TO ANOTHER PRODUCT OR PRODUCTS RESULTING FROM SUCH A DEFECT.

WARRANTY ALTERATIONS

No person has the authority to enlarge, amend, or modify this Crown Warranty. This Crown Warranty is not extended by the length of time which you are deprived of the use of the new Crown product. Repairs and replacement parts provided under the terms of this Crown Warranty shall carry only the unexpired portion of this Crown Warranty.

DESIGN CHANGES

We reserve the right to change the design of any product from time to time without notice and with no obligation to make corresponding changes in products previously manufactured.

LEGAL REMEDIES OF PURCHASER

No action to enforce this Crown Warranty shall be commenced after expiration of the warranty period.

**THIS STATEMENT OF WARRANTY SUPERSEDES ANY OTHERS
CONTAINED IN THIS MANUAL FOR CROWN PRODUCTS.**

**THREE YEAR
FULL WARRANTY**

Crown Audio Factory Service Information

Shipping Address: Crown Audio Factory Service, 1718 W. Mishawaka Rd., Elkhart, IN 46517

PLEASE PRINT CLEARLY

SRA #: _____ (If sending product to Crown factory service.) Model: _____
Serial Number: _____ Purchase Date: _____

PRODUCT RETURN INFORMATION

Individual or Business Name: _____
Phone #: _____ Fax #: _____
E-Mail: _____

Street Address (please, no P.O. Boxes): _____

City: _____ State/Prov: _____
Postal Code: _____ Country: _____

Nature of problem: _____

Other equipment in your system: _____

If warranty is expired, please provide method of payment. Proof of purchase may be required to validate warranty.

PAYMENT OPTIONS

I have open account payment terms. Purchase order required. PO#: _____ COD

Credit Card (Information below is required; however if you do not want to provide this information at this time, we will contact you when your unit is repaired for the information.)

Credit card information:

Type of credit card: MasterCard Visa American Express Discover

Type of credit card account: Personal/Consumer Business/Corporate

Card # _____ Exp. date: _____ * Card ID #: _____

* Card ID # is located on the back of the card following the credit card #, in the signature area. On American Express, it may be located on the front of the card. This number is required to process the charge to your account. If you do not want to provide it at this time, we will call you to obtain this number when the repair of your unit is complete.

Name on credit card: _____

Billing address of credit card: _____

