

CROWN Macro Reference Studio Reference Amplifier Owner's Manual

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REFERENCE STUDIO REFERENCE AMPLIFIER



OWNER'S MANUAL

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Macro Reference Studio Reference Amplifier

'SUMMARY OF WARRANTY



SUMMARY OF WARRANTY

The Crown Audio Division of Crown Internationat, Inc., 1718 West Mishawaka Road, Elkhart, indiana 46517-4095 U.S.A. warrants to you, the ORIGINAL PURCHASER and ANY SUBSEQUENT CWNER 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, and we further warrant the new Crown product regardless of the reason for failure, except as excluded in this Crown Warranty.

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

ITEMS EXCLUDED FROM THIS CROWN WARRANTY

This Crowm 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 bean damaged because of any intentional miguse, accident, negligence, ar lass which is covered under any af your insurance contracts This Crown Warranty aiso does not extend to the naw Crown product if the seria! number has &een defaced, altered, or removed.

WHAT THE WARRANTOR WILL DO

We will remedy any defect, regardless of the reason for failure (except as excluded), by rapalr, replacement, or refund. We may not elect refund unless you agree, or unless we are unable to provide replacement, and repairis not practical or cannot be timely made. If a refundis elected, then you must make the defective or malfunctioning product available to us free and clear of ail fiens or other encumbrances. The refund wi be equal to the actual purchase price, not including interest, insurance, clasing costs, and other finance charges iess a reasonable depreciation on line 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 oroduct from the service center within a reasonable time after receipt of the defective product at our authorized service center. All expenses in remedying the defect, including surface shipping costs to the nearest authorized service center, will be borne by us. (You must bear the expense of all taxes, duties and other customs fees when transporting the product.)

HOW TO OBTAIN WARRANTY SERVICE

You must notify us of yourneed for warranty service notlater than ninety (80) days after expiration of the warranty period. Ait components must be shipped in a factory pack. 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 net satisfactory, notify our authorized service center immediately.

DISCLAIMER OF CONSEQUENTIAL AND 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 depzived of the use of the new Crown preduct. Repairs and replacement parts provided under the terms of this Crawn Warranty shail carry only the unexpired portion of this Crown Warranty.

DESIGN CHANGES

We reserve the nght to change the design of any product from time to tine 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 shal! be commencediater than ninety (90) days after expiration of the warranty period.

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

NORT AMERICA SIR YEAR FULL WARRANTY



SUMMARY OF WARRANTY

The Crown Audio Division of 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 six (6) years from the date of purchase by the original purchaser (the "warranty period") that (he new Crown product is tree of defects in matefais and workmanship. We further wazrant 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 preduct which occurred within the Warranty Period. it does not cover any product which has been damaged because of any intentional misuse, accident, nagligence, or ioss which is covered under any of your insurance contracts. This Crown Warranty also does not extand to the new Crown product if the seria! number has been defaced, altered, or removed.

WHAT THE WARRANTOR WILL DO

We will remedy any defect, regardiess of the reason tor failure (except as excluded), by renair, replacement, or refund. We may not elect refund unless you agree, or unless we ara unable to provide replacement, and repair is not practical or cannot be timely made. Ita refund is atected, then you must make the defective or malfunctioning product available to us free and clear of aifliens or other encumbrances. The refund will be equal to the actual purchase price, not including interest, insurance, closing costs, and other finance charges less @ reasonable depreciation on the product from the date of original purchase, Warranty work can only 6e performed at our authorized service centers or at the factory. We will remedy the defect and ship the product from the service center or our factory within a reasonabte time after receipt of the defective product at our authorized service center or our factory. Al expanses in remedying the defect, including surface shipping costs in the United States, will be bore by us. (You must bear the expense of shipping the preduct between any foreign country ard 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 not jater than ninety (90) days after expiration of the warranty period. All components must de 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 receip! 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 AND INCIDENTAL DAMAGES YOU ARE NOT ENTITLES 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 OF CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION O8 EXCLUSION MAY NOT APPLY TO VOU.

WARRANTY ALTERATIONS

No person has the authority to enlarge, amend, or modify this Crown Warranty.

This Crown Warranty is not exgended oy the length of time which you are deprived of the use of the new Crown product, Repairs and replacerrant parts provided under the terms of this Crown Warranty shalf carry only the unexpired portion af this Crown Warranty.

DESIGN CHANGES

We reserve the right te change the design of any product from tims to time without notice and with no obligation to make correspanding 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 fater than ninety (S0) days after expiration of the warranty period.

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

The information furnished in this manual does not include all of the cetaiis of design, production, or variations of the equipment. Nor does it cover every possible situation which may arise during installation, operation or maintenance. If your unk bears the name "Amceron," please substitute it for the name "Crown" in this manual. If you need special assistance beyond the scope of this manual, please contact our Technica' Support Group.

Crown Audio Division Technical Support Group

57620 C.R. 105, Elkhart, Indiana 46517 U.S.A.

Phone: 800-342-6939 (U.S.A.) or 219-294-8200 Fax: 219-294-8301

IMPORTAN^{*}

THE MACRO REFERENCE REQUIRES CLASS 1 OUTPUT WIRING

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

TO PREVENT ELECTRIC SHOCK DO NOT REMOVE TOP OR SOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSON- NEL. DISCONNECT POWER CORD BEFORE REMOVING REAR INPUT MODULE TO ACCESS GAIN SWITCH.



WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE!

Magnetic Field

CAUTION! Ov natlocate sensitive high-gain equip-ment such as preamplifiers or tape decks directly above or below the unit. Because this amplifier has a high power deusity, it nas a strong magnetic lied which can induce hum into unshielded devices that are jocated nearby. The field is strongest just above and below the unit.

If an equipment rack 's usec, we recommiend locating the amplitier(s) in the bottom of the rack and the preamolifier or other sensitive equipment at the top.

WATCH FOR THESE SYMBOLS:

A

The lightning bolt triangle is used to alert the user to the risk of electric shock.

The exclamation point triangle is used to alert the user to important operating or maintenance instructions.

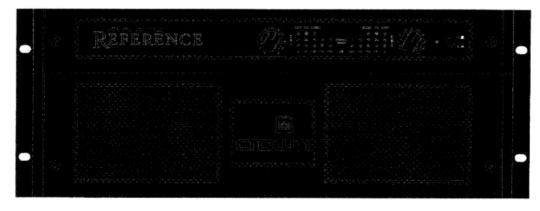


Fig. 1.1 Macro Reference Amplifier with Engraved Electroluminescent Front Panel

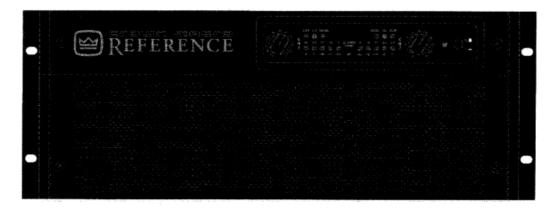


Fig. 1.2, Macro Reference Amplifier with Steel Front Panel

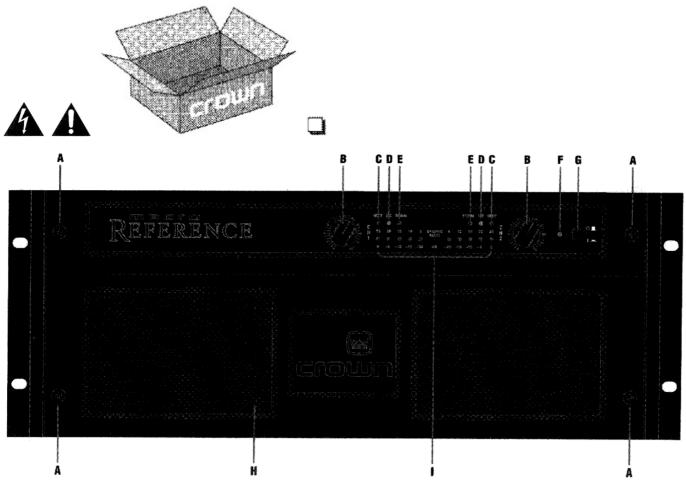


Fig. 2.1 Front Facilities

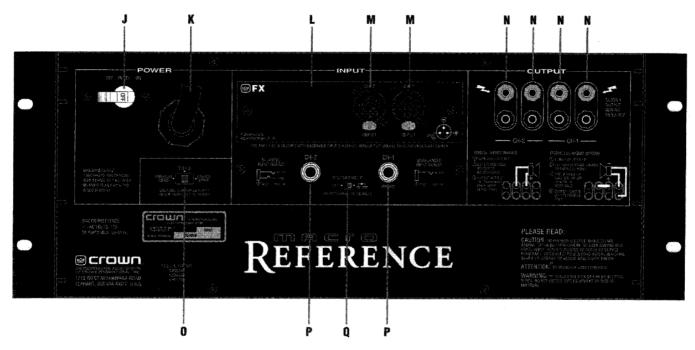


Fig. 2.2 Rear Facilities

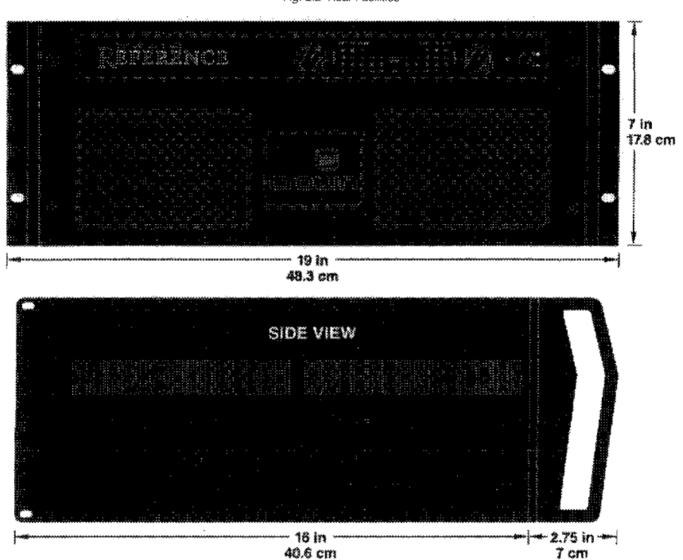


Fig. 3.1 Mounting Dimensions

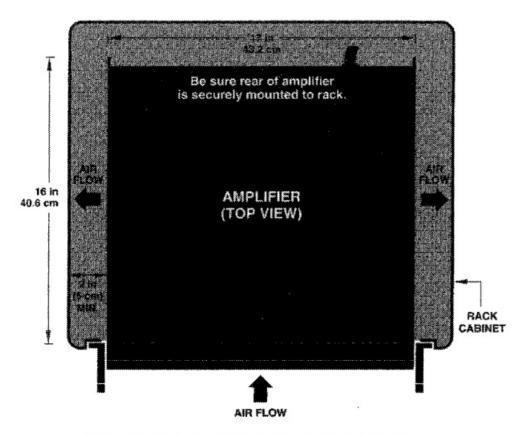


Fig. 3.2 Top View of a Rack-Mounted Unit

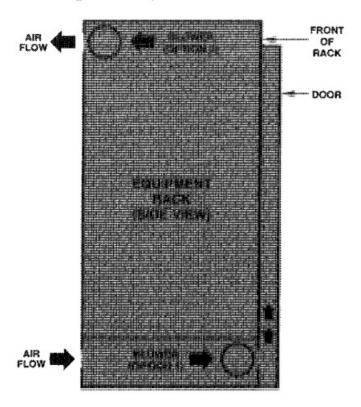


Fig. 3.3 Proper Air Flow in a Rack Cabinet

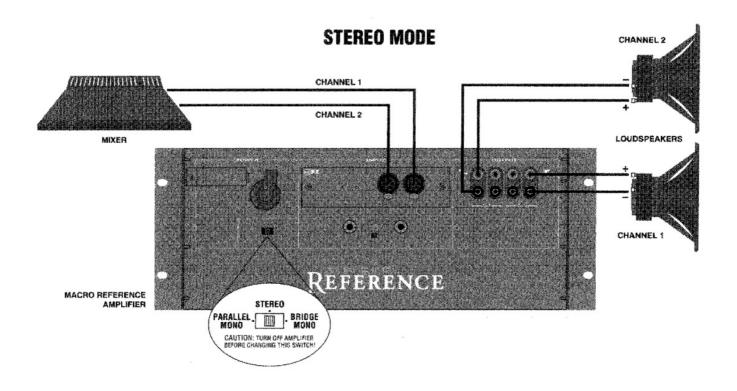


Fig. 3.4 Stereo Wiring

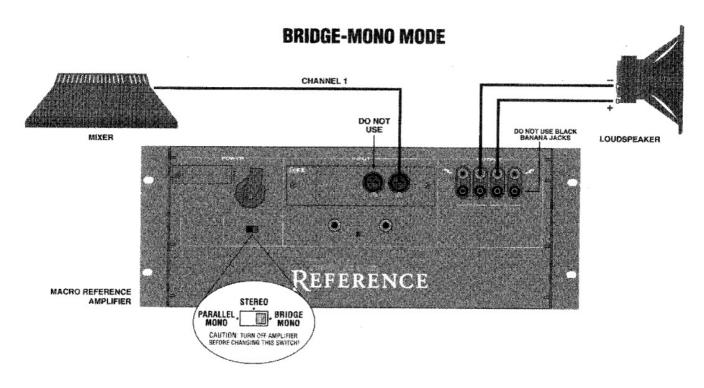


Fig. 3.5 Bridge-Mono Wiring

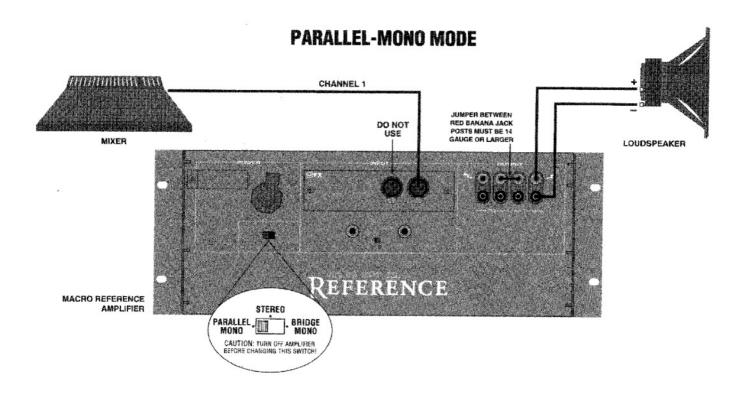


Fig. 3.6 Parallel-Mono Wiring

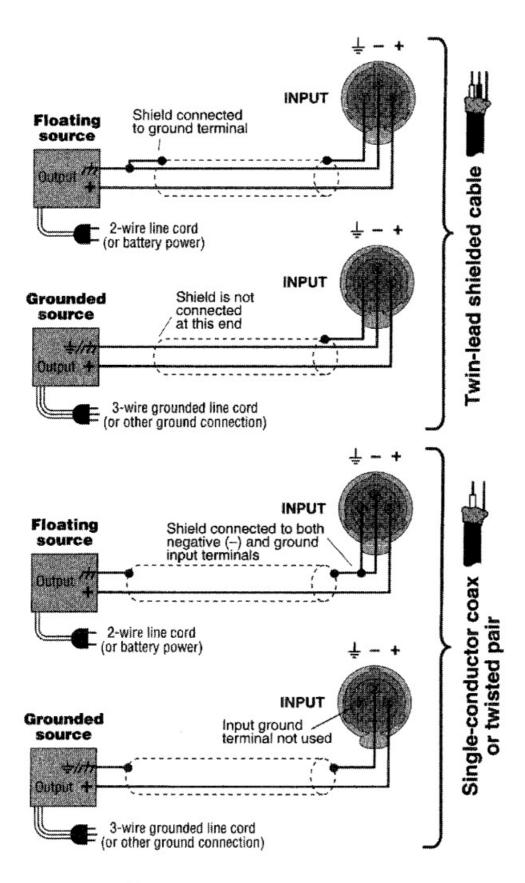


Fig. 3.7 Unbalanced Input Wiring

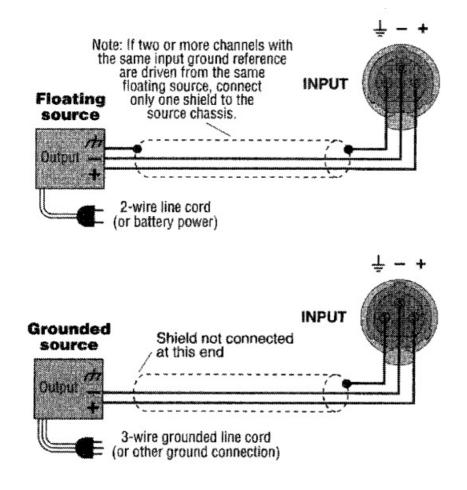


Fig. 3.8 Balanced Input Wiring

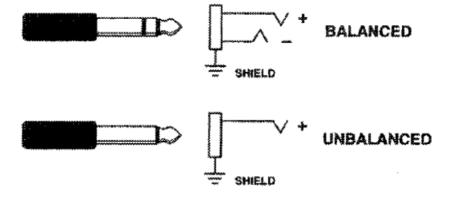


Fig. 3.9 Balanced and Unbalanced Phone Plugs

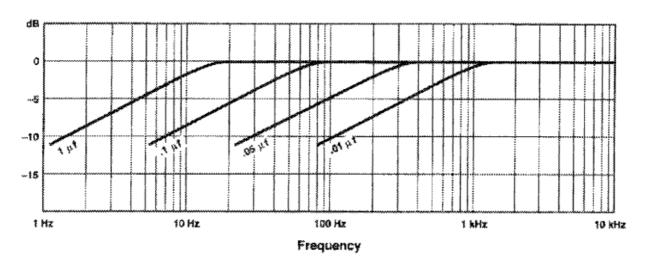


Fig. 3.10 Subsonic Filter Capacitors

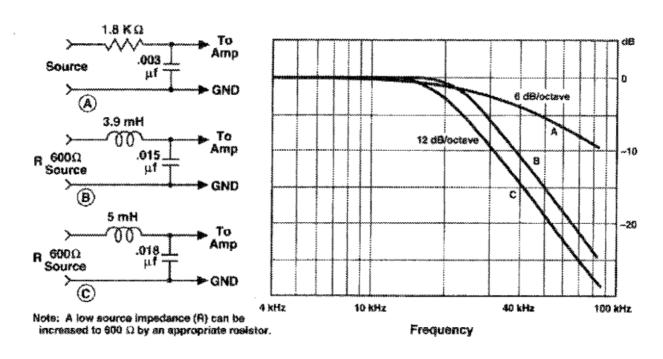


Fig. 3.11 Unbalanced RFI Filters

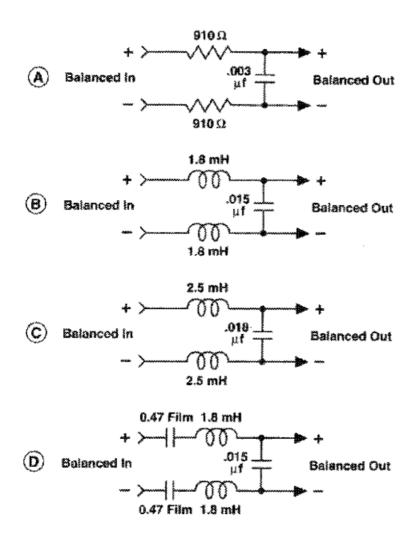


Fig. 3.12 Balanced RFI Filters

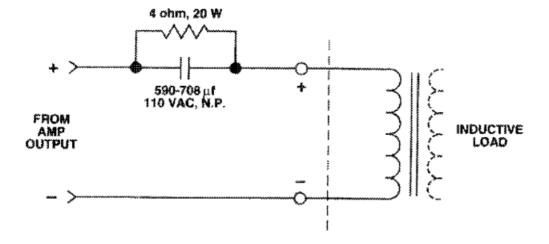


Fig. 3.14 Inductive Load (Transformer) Network

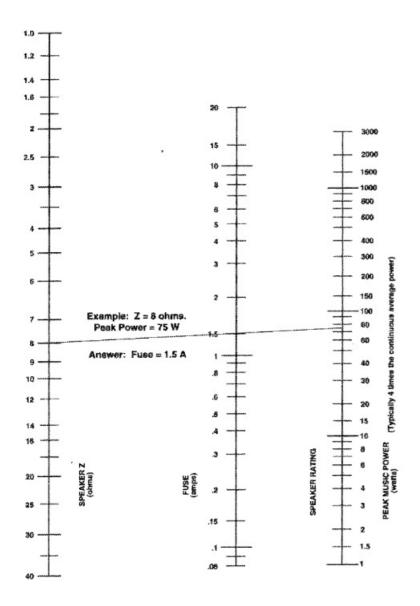


Fig. 3.15 Loudspeaker Fuse Selector Nomograph

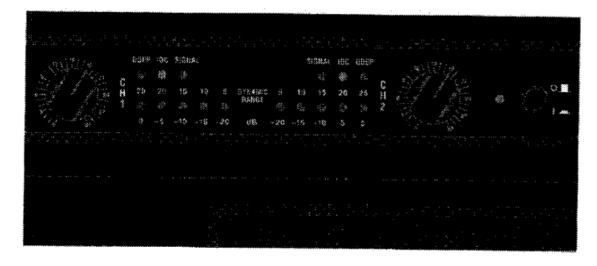
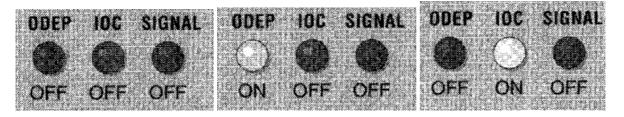
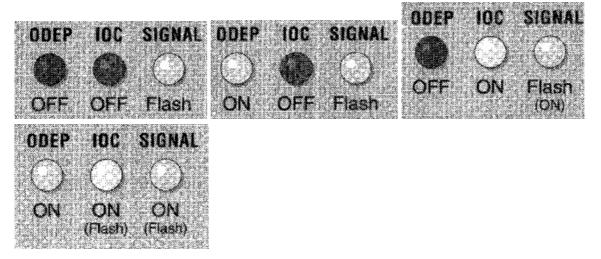


Fig. 4.1 Indicators





METER MODE SWITCH OUTPUT LEVEL ← → DYNAMIC RANGE

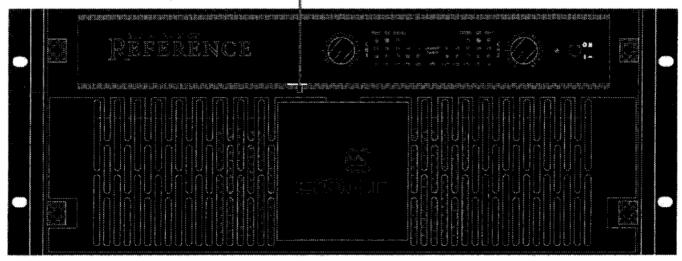


Fig. 4.3 Meter Mode Switch

INPUT SENSITIVITY SWITCH INSIDE ACCESS HOLE

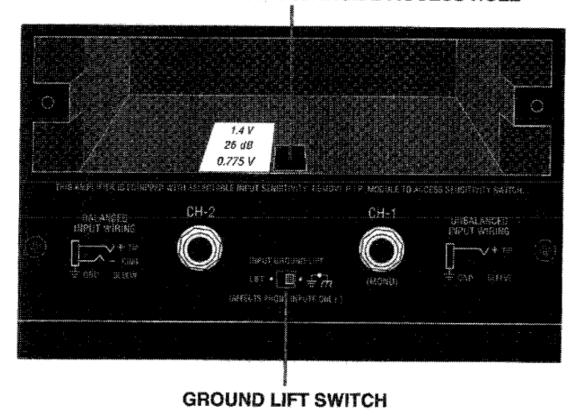


Fig. 4.4 Input Sensitivity and Ground Lift Switches

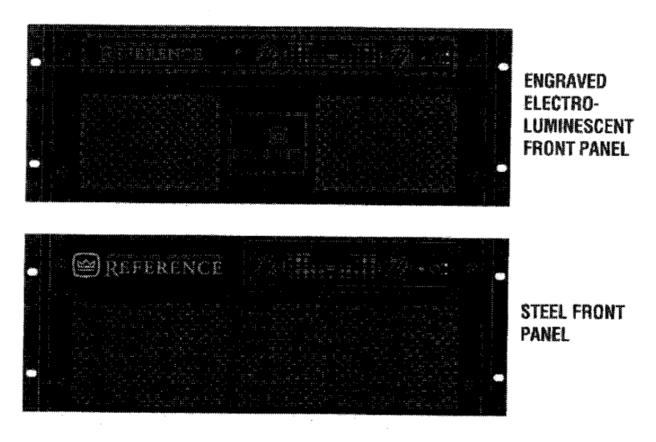
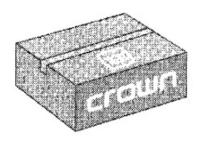
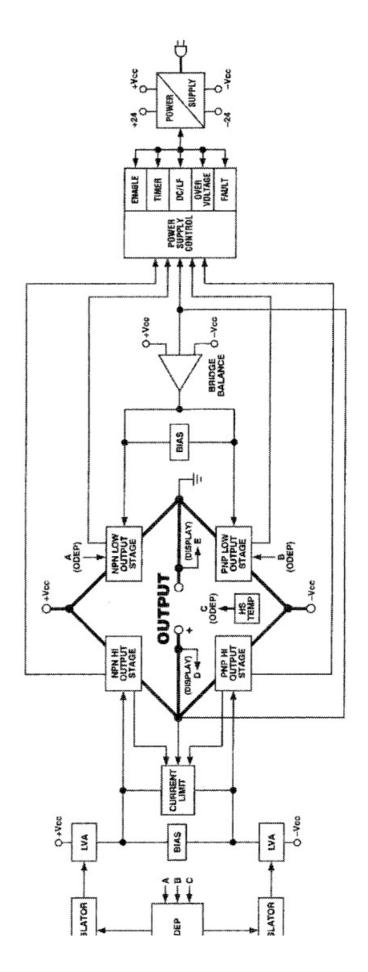


Fig. 4.5 Macro Reference Front Panels



Always use the original factory pack to transport the unit.



ONLY ONE CHANNEL SHOWN

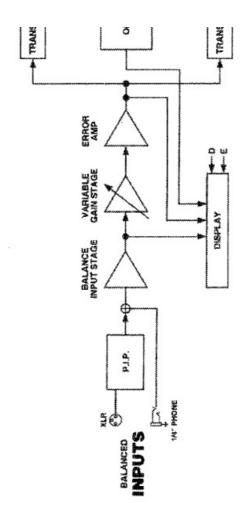


Fig. 6.1 Circuit Block Diagram

or

Macro Reference

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		kaj semila Kaj semila	91), Jahry	iliaina. Diak	- Artiki	TANK.	an an	230-246 V	Balti.	. Head	1904) 1904)	100.126.7	229.3424	hurs	
30%	216	2.1	1.1	445	115	270	17	1.4	530	130	320	3.2	1.8	525	145
- 1076		43			150		4.5		785	199	15	9.9	24	- 898 -	276
37%	440	4.4	2.2	725	165	625	6.3	3.2	945	240	780	7.9	4.0	1135	295
3976	59012	- 4		PGG	aliri .	805			1150	229	1015	103	9,1	- F#10 -	104
10%	675	4.5	3.4	tdia	266	940	9.9	5.0	1575	145	1245	12.5	6.3	ieds	425

Fig. 8.1 Power Draw, Current Draw and Thermal Dissipation at Full Rated Power for the Listed Duty Cycles

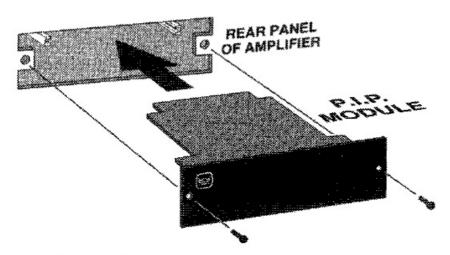
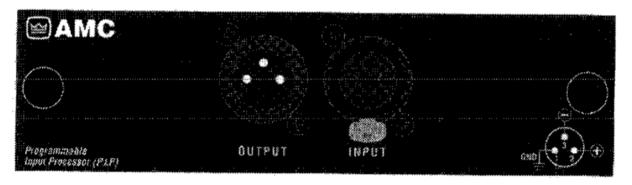
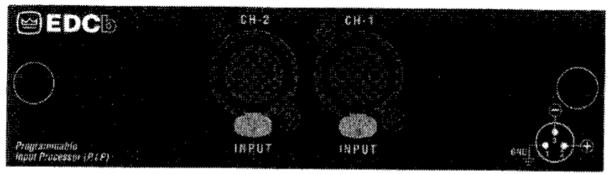
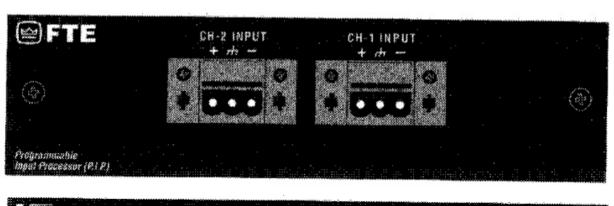
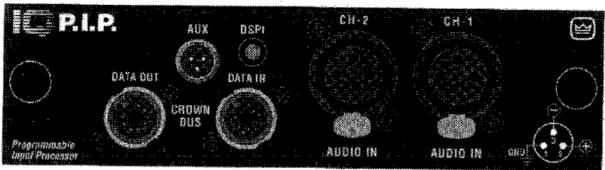


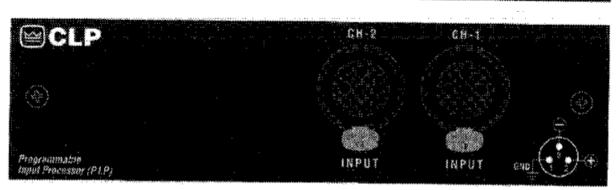
Fig. 9.1 Installing a P.I.P. Module



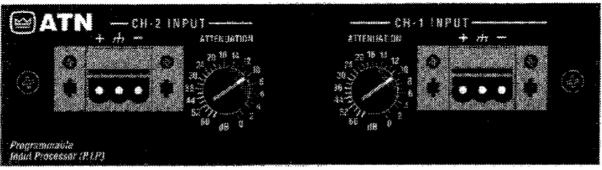


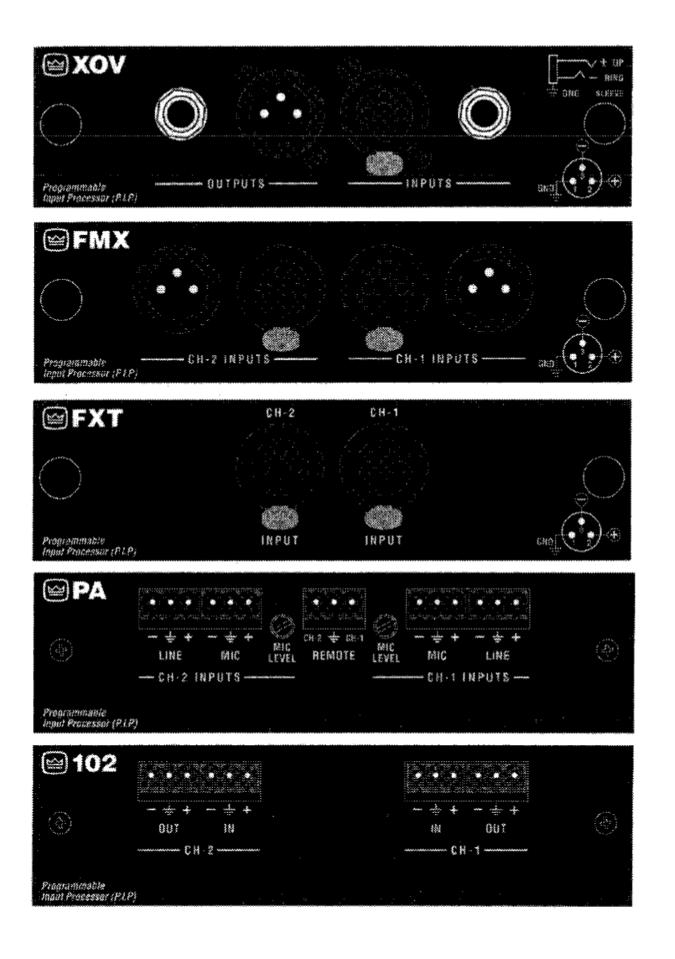


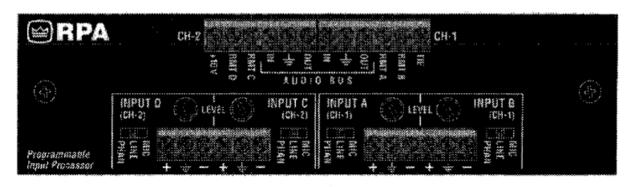




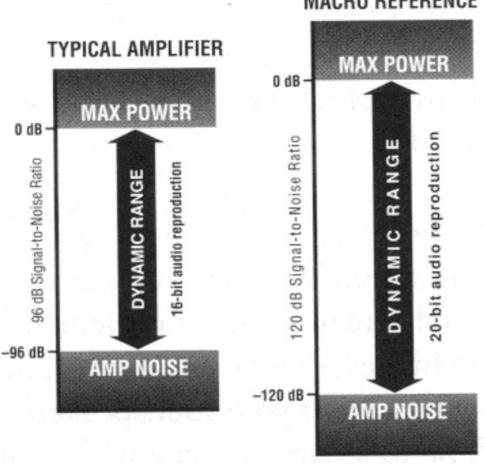




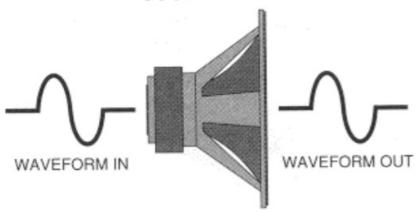




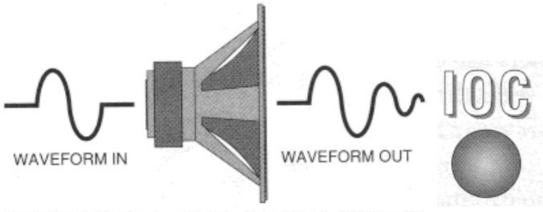
MACRO REFERENCE

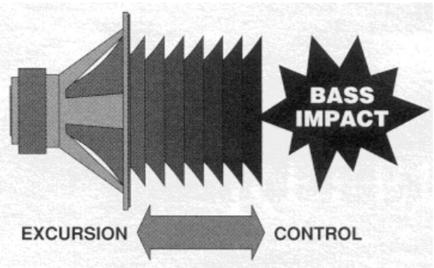


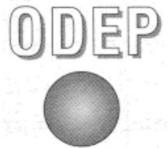
GOOD DAMPING

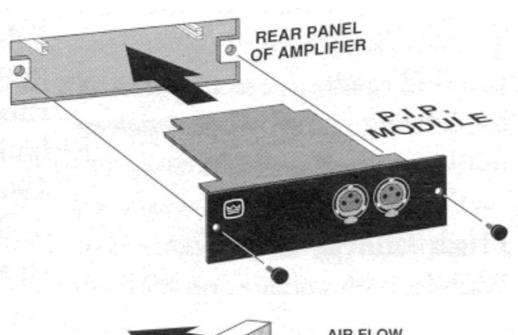


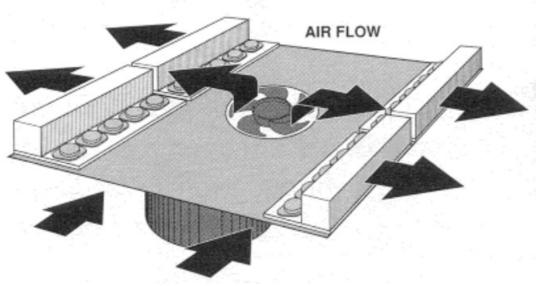
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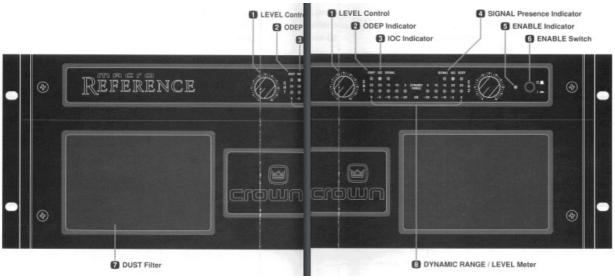


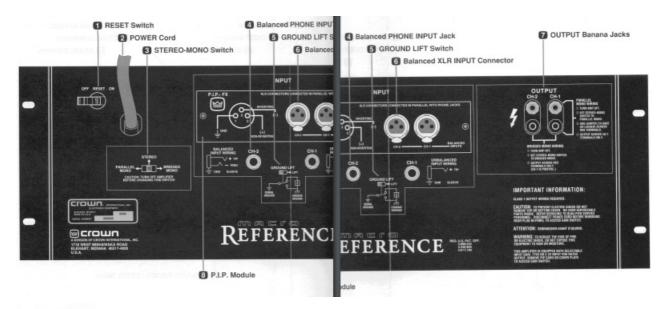


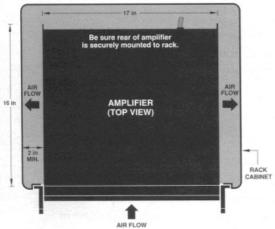


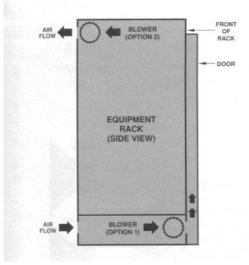


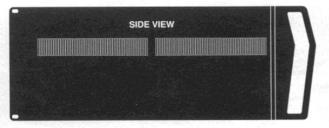




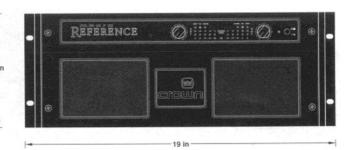






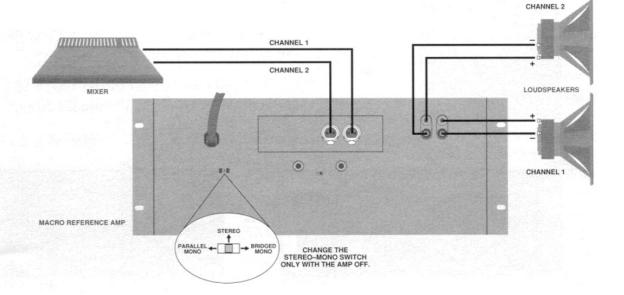


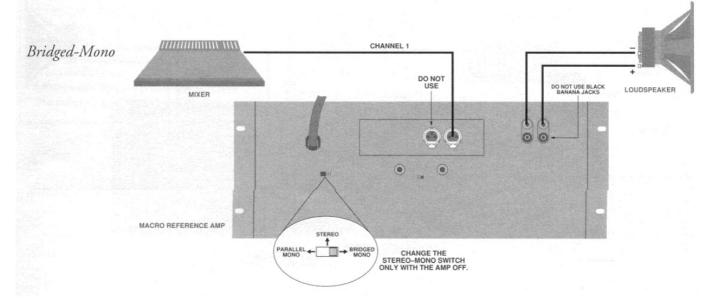
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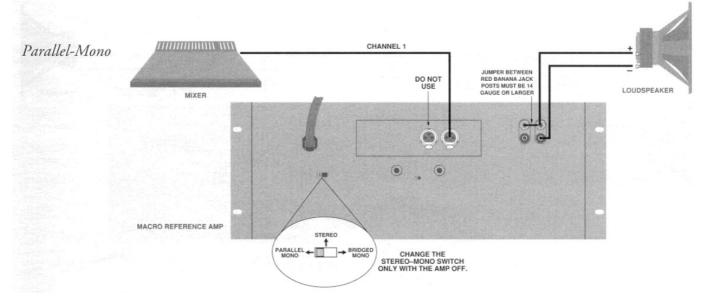


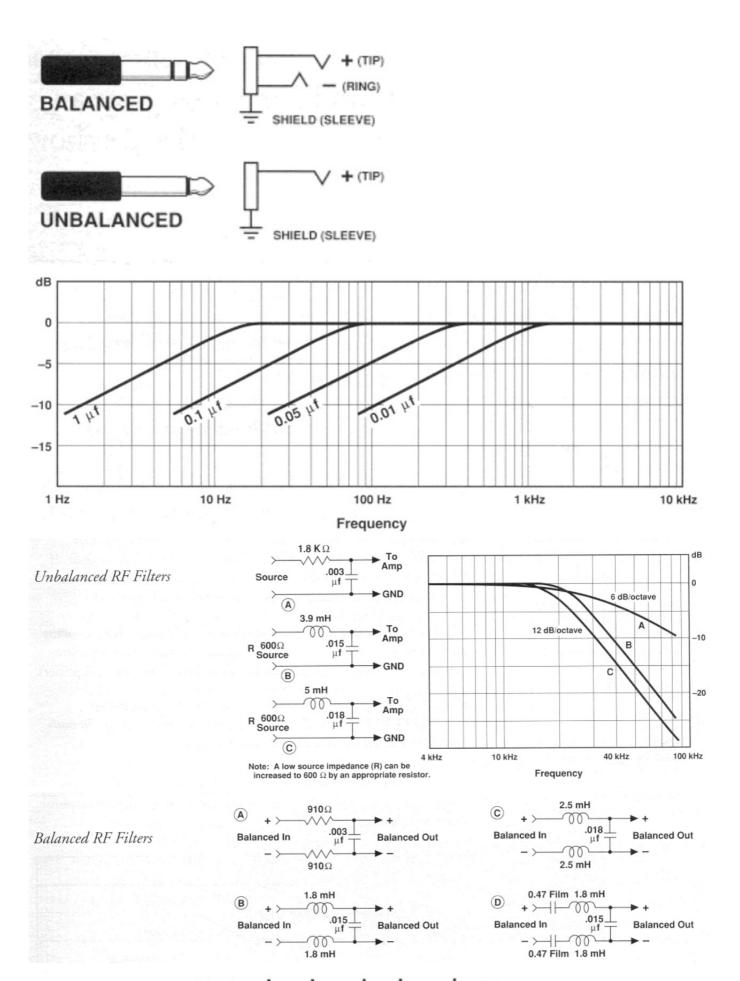
- 2.75 in -







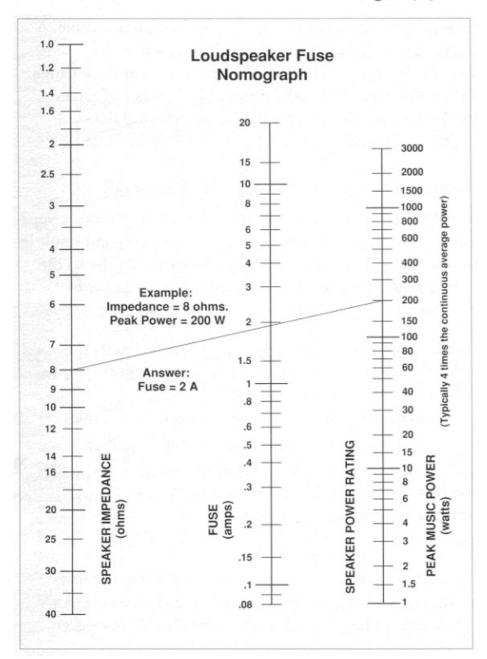


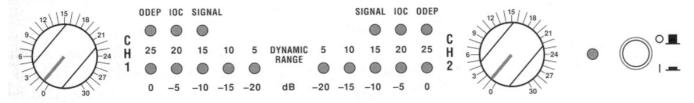


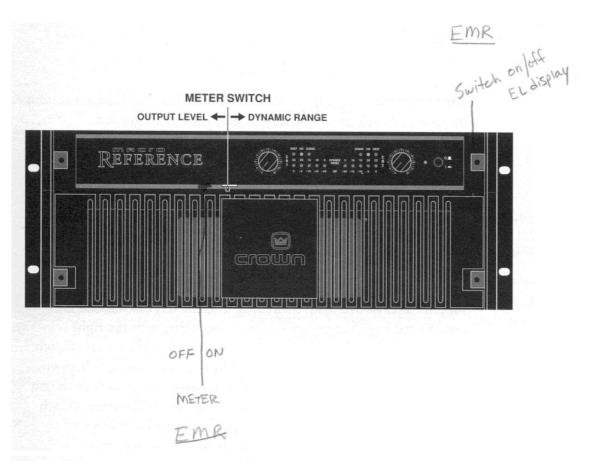
Source Impedance = Loudspeaker Impedance

Damping Factor

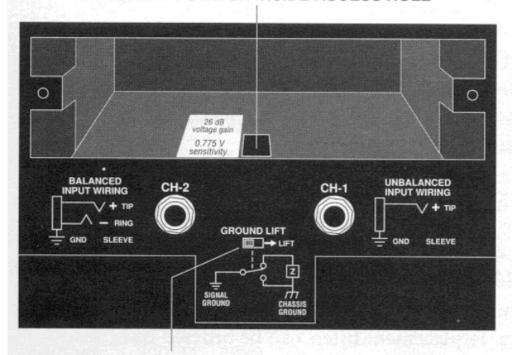
Ohms per 1000 ft = $\frac{\text{Source Impedance} \times 1000}{\text{Cable Length (ft)} \times 2}$



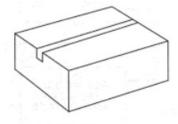


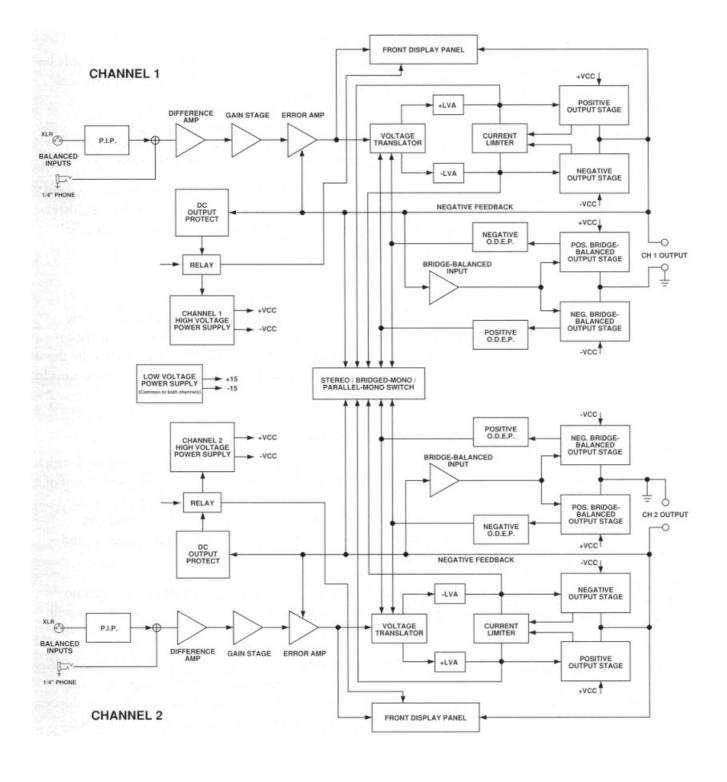


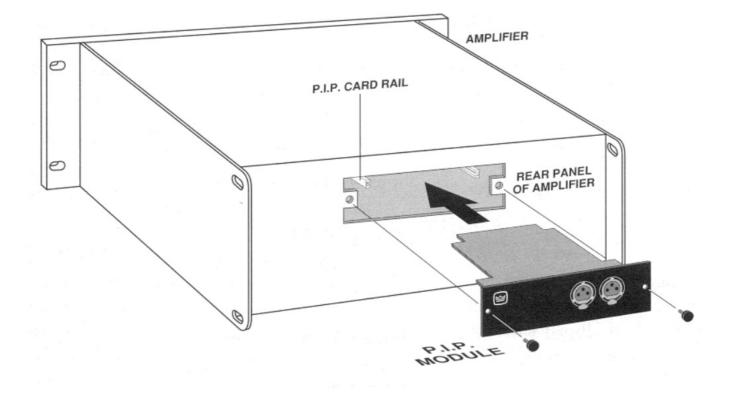
SENSITIVITY SWITCH INSIDE ACCESS HOLE



GROUND LIFT SWITCH







Documents / Resources



<u>CROWN Macro Reference Studio Reference Amplifier</u> [pdf] Owner's Manual Macro Reference Studio Reference Amplifier, Macro, Reference Studio Reference Amplifier, St udio Reference Amplifier, Reference Amplifier, Amplifier

Manuals+,