CONTINUUM

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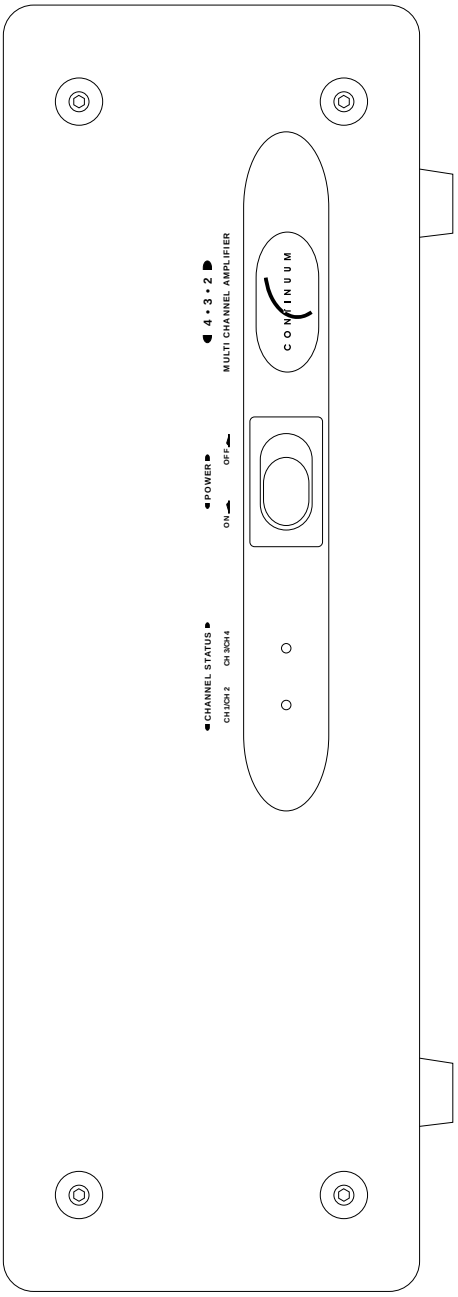
OWNERS MANUAL



CAUTION

WARNING

CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THIS SYMBOL IS TO ALERT YOU OF THE PRESENCE OF UNINSULATED DANGEROUS VOLTAGE WITHIN THE UNIT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.

THIS SYMBOL IS INTENDED TO ALERT YOU OF THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD , DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. TO AVOID ELECTRICAL SHOCK , DO NOT OPEN THE UNIT. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION

- Never install or remove the power cord from the chassis unless it has been disconnected from the AC power source first.
- Never pull on the power cord when removing it from an AC power source. Grasp it by the plug.
- Do not leave the power cord connected to an AC power source unless it is connected to the unit.
- It is recommend that during extended periods of nonuse that the units power cord be unpluged from its AC power source.
- Route the AC power cord so that it will not be damaged or walked on.

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Thank you selecting Continuum Electronics. The 4•3•2 multi-channel amplifier is a precision instrument that will provide you with many years of listening enjoyment. Please take a few moments to read this brief manual to insure maximum benefit from your electronic system.

LIMITED FIVE YEAR WARRANTY

Continuum Electronics extends to the original owner coverage of defects in materials and workmanship for a period of five years from date of purchase. This warranty does not include a) damage in shipment b) damage caused by accidental or intentional misuse or abuse c) units not registered with Continuum Electronics d) damage resulting from unauthorized modifications or repairs. Liability is limited to the repair or replacement, at our option, of any defective component and shall not include damage due to short circuits, property and or consequential damages which may result from the failure of this product.
If this product should ever require servicing, contact:

Continuum Electronics
9941 Horn Rd., Unit A
Sacramento CA 95827
Phone: 1-916-363-4653
Fax: 1-916-363-4627

CUSTOMER RECORD

MODEL NO._____

SERIAL NO._____

DATE OF PURCHASE_____/_____/_____

DEALER NAME_____

DEALER ADDRESS_____

CITY_____

STATE_____

ZIP_____

OWNER_____

STREET ADDRESS_____

CITY_____

STATE_____

ZIP_____

DESCRIPTION 5

The 4•3•2 multi-channel amplifier is designed with the same level of thoroughness usually reserved for the finest amplifier gain stages. Differential voltage gain throughout provides exceptional rejection of external noise and contributes to the inherent DC stability of the circuit. The unit also uses output followers operating without feedback.

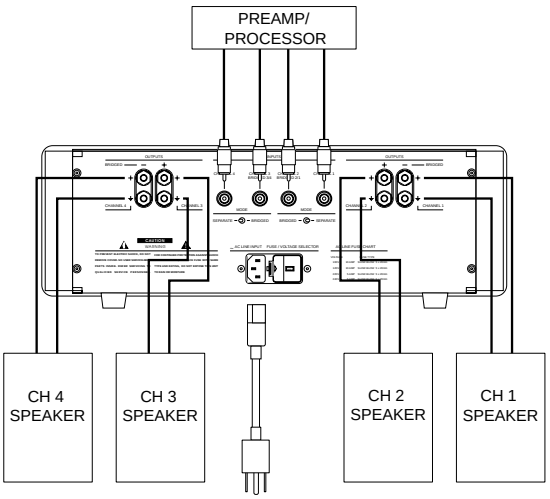
The front end is designed to provide a slew rate of 50 V/us without entering Class B operation as is common in many other designs. This combined with excellent high frequency design insures linear operation at high speed. The supplies take a very direct approach to high performance. A top quality 1400VA toroidal transformer with with high current rectifiers and about 100,000 uf of total capacitance with very low ESR and inductance is used.

The current stage is capable of producing peak currents in excess of 30 peak Amperes with a degree of linearity and speed which is not matched by other designs when producing only a fraction of of this current. This is achieved by the implementation of several distinct circuit features.

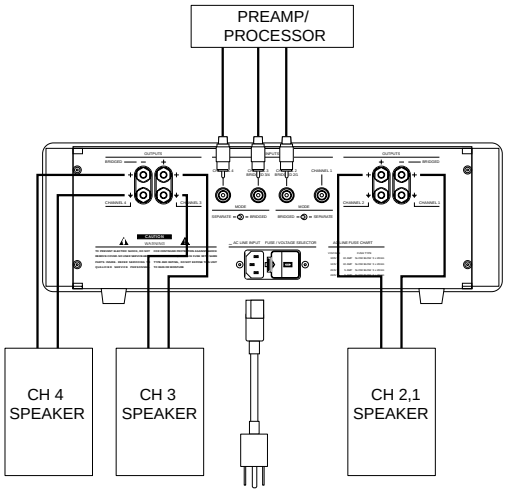
Each channel uses 4 individual output transistors with a combined power rating of 800 Watts and 30 Amps with a bandwidth of 10 Mhz.

The bias section is designed to produce a precision transition with no abrupt changes in distortion or output impedance. This “Precision Bias” technique yields seemless performance regardless of the complexity of the load impedance. With such linearity and bandwidth no overall feedback correction is used. One advantage of this is a high degree of immunity from interactions with complex speaker loads or cables.

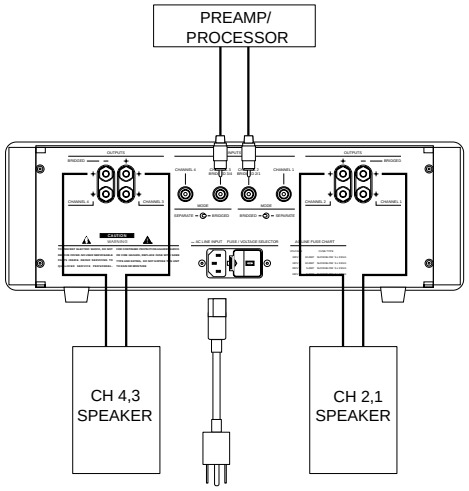
4 CHANNEL OPERATION



3 CHANNEL OPERATION



2 CHANNEL OPERATION



Before installing the 4•3•2 multichannel amplifier in your audio system, be certain all equipment is turned off while making any connections.

To provide for adequate ventilation you should allow at least six inches of unobstructed space above and a couple of inches on each side of the amplifier.

Because of its large power supply, the amplifier produces a local magnetic field that may be picked up by low level circuity such as preamplifiers turntables and the like. For this reason you should also provide about a foot of space between your amplifier and these low level components.

1 POWER CONNECTIONS

Position your amplifier as near the final location as possible while leaving sufficient access to its rear panel connectors.

Insert the power cord into the AC line input on the back panel and then connect it to an appropriate power source.

2 INPUT CONNECTIONS

Four channel operation is made through the four RCA connectors and both mode switches set for separate.

Three channel operation is made through three of the RCA connectors, with one mode switch set to separate and the other set to bridged (Be sure that the bridged channels only have one input.)

Two channel operation is made through channel 2 and channel 3 RCA's with both mode switches set to bridged.

4 OUTPUT CONNECTIONS

Signal output to your speakers is made through heavy duty gold plated five way binding posts. Be sure of correct speaker phasing by matching the plus on the amplifier to the plus on the speaker and the ground (when separate) or minus (when bridging) on the amplifier to the minus on the speaker.

5 ELECTRICAL PROTECTION

The AC line voltage is preset at the factory but may be changed by your dealer. Also there is a AC line fuse and internal rail fuses, but these too should be changed by your dealer since the failure of these parts may indicate a further problem.

If you wish to clean your amplifier use a diluted ammonia based cleaner. Do not use any abrasive cleaners or chemical solvents. Take care not to damage the aluminum faceplate, since aluminum is a medium hardness metal and can be scratched by the careless use of tools during installation.

The amplifier may overheat and the finish may fade if exposed to direct sunlight or intense heat sources for prolonged periods.

Save your box and packing material, they may be necessary for moving or shipping the unit for servicing by the factory.

SPECIFICATIONS 8

RATED POWER
100 Watts x 4 in four channel mode, 20Hz to 20kHz, all channels driven into 8 Ohms
100 Watts x 2 and 400 Watts x 1 in three channel mode, 20Hz to 20kHz, all channels driven into 8 Ohms
400 Watts x 2 in two channel mode, 20Hz to 20kHz, both channels driven into 8 Ohms

BANDWIDTH
5 Hz through 100kHz

DISTORTION
Less than .1% from 20Hz to 20kHz at 100 Watts all channels driven into 4 through 8 Ohms

GAIN
26dB

CURRENT CAPABILITY
30 Amperes peak per channel

SLEW RATE
50 Volts/microsecound

INPUT IMPEDANCE
50k Ohms unbalanced

OUTPUT IMPEDANCE
.15 Ohms from 20Hz to 20kHz

NOISE
More than 100dB referenced to rated output

POWER SUPPLY
1,400VA toridal transformer and 100,000 uF of capacitance

DIMENSIONS
Faceplate: 17 inches wide by 5.5 inches tall
Chassis: 16.75 inches wide by 6 inches tall by 14 inches deep

WEIGHT
50 lbs

POWER CONSUMPTION
800 Watts maximum at rated power