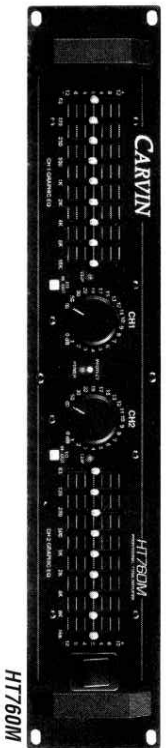


CARVIN ENGINEERING DATA HT760M EQUALIZED MONITOR POWER AMP OPERATING MANUAL



HT760M

RECEIVING INSPECTION—read before getting started
INSPECT YOUR UNIT FOR ANY DAMAGE which may have occurred during shipping. If any damage is found, please notify the shipping company and CARVIN immediately. SAVE THE CARTON & ALL PACKING MATERIALS. In the event you have to re-ship your unit, always use the original carton and packing material. This will provide the best possible protection during shipment. 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 or below on this manual for your records. Keep your portion of the card and return the portion with your name and comments to us.

DISTORTION-FREE LIMITERS

While most amps do not offer built-in limiters, this is an important feature to look for. The purpose of a limiter is to protect your expensive speakers. In addition, a well designed limiter can increase your amp's average output as much as 3 db. Part of Carvin's design uses the more expensive, distortion-free linear "opto isolators". Unlike amps that use FET controlled limiters which can inject small amounts of distortion, the HT Series limiters keep your sound pure and uncolored!

FRONT PANEL & CONNECTING UP

The HT760M features front panel signal, peak and protect LEDs which let you monitor the status of the amp easily. Also, both channels use precision 41 detent level controls allowing you to see your settings at a glance. The main features are the two 9-Band graphic equalizers that easily allow fine tuning of your sound or balancing out and eliminating feedback on a monitor system. Balanced 1/4 phone & XLR input jacks are used to eliminate hum & noise. Speaker outputs feature 1/4" jacks & heavy-duty binding posts that accept up to 50 amp #7 speaker wires.

The rear professional accessory group offers a GROUND switch to remove the chassis ground from the XLR input, a Parallel input switch connects the inputs of both channels together eliminating Y connectors and allowing amp patching in multiple amp systems. The accessory group also features a bridge mode switch for delivering full power into a 70V distribution system and a limiter ON/OFF switch that gives you the choice of using the internal limiter circuitry.

HT760M POWER AMP SPECIFICATIONS:

MODEL	HT760M
Bridged RMS Continuous	750W
4Q, (20-20K Hz, <0.4%)	
Both Channels RMS Continuous	375/375W
2Q, (20-20K Hz, <0.2%)	
4Q, (20-20K Hz, <0.2%)	290/290W
8Q, (20-20K Hz, <0.2%)	175/175W
THD (Typical):	0.03%
Damping Factor:	>350
Slew Rate: bridged mode	>45V/µs
Sensitivity: (4Q, Vrms)	0.75V
Signal to Noise Ratio:	103 dB
Frequency Response:	±0.5 dB, 20Hz to 20KHz (±1.5 dB, 10 Hz & 40 KHz)
Input Impedance:	>20K Ω, balanced
Protection Circuits:	• Short Circuit • No Load Protection • SpeakerGuard™ • Thermal Shut-Off • Mute On/Off

Control and Indicators:

- Front:**
- Dual 9-Band Graphic Equalizers • Power switch
 - Recessed 41 detent attenuators
 - Signal LED • Clip LED • Protect LED
 - Power Indicator
- Rear:**
- Ground Lift (each channel) • Parallel Input Switch
 - Speaker Output Bridge Switch • Limiters IN/OUT Sw
 - Input Connectors: Two each, Balanced XLR & 1/4"
 - Speaker Output Connectors: Dual heavy-duty binding posts and two 1/4" phone jacks

Dimensions: 3 1/2" High x 19" Wide x 10" Depth (2-space)

Net Weight: 22 lbs.

For your records, you may wish to record the following information.

Serial No. _____ Invoice Date _____

76-00760 797

12340 World Trade Drive, San Diego, CA 92128
 (619) 487-1600 (800) 984-2235
 www.carvin.com



CAUTION
 RISK OF ELECTRIC SHOCK
 DO NOT OPEN

This symbol is intended to alert the user to the presence of unisolated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT! FOR YOUR PROTECTION, PLEASE READ THE FOLLOWING:

WATER AND MOISTURE: Appliance should not be used near water (near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.). Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

POWER SOURCES: The product should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

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

POWER CORD PROTECTION: 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, convenience receptacles, and the point where they exit from the appliance.

SERVICING: The user should not attempt to service the appliance beyond that described in the operating instructions. All other 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.

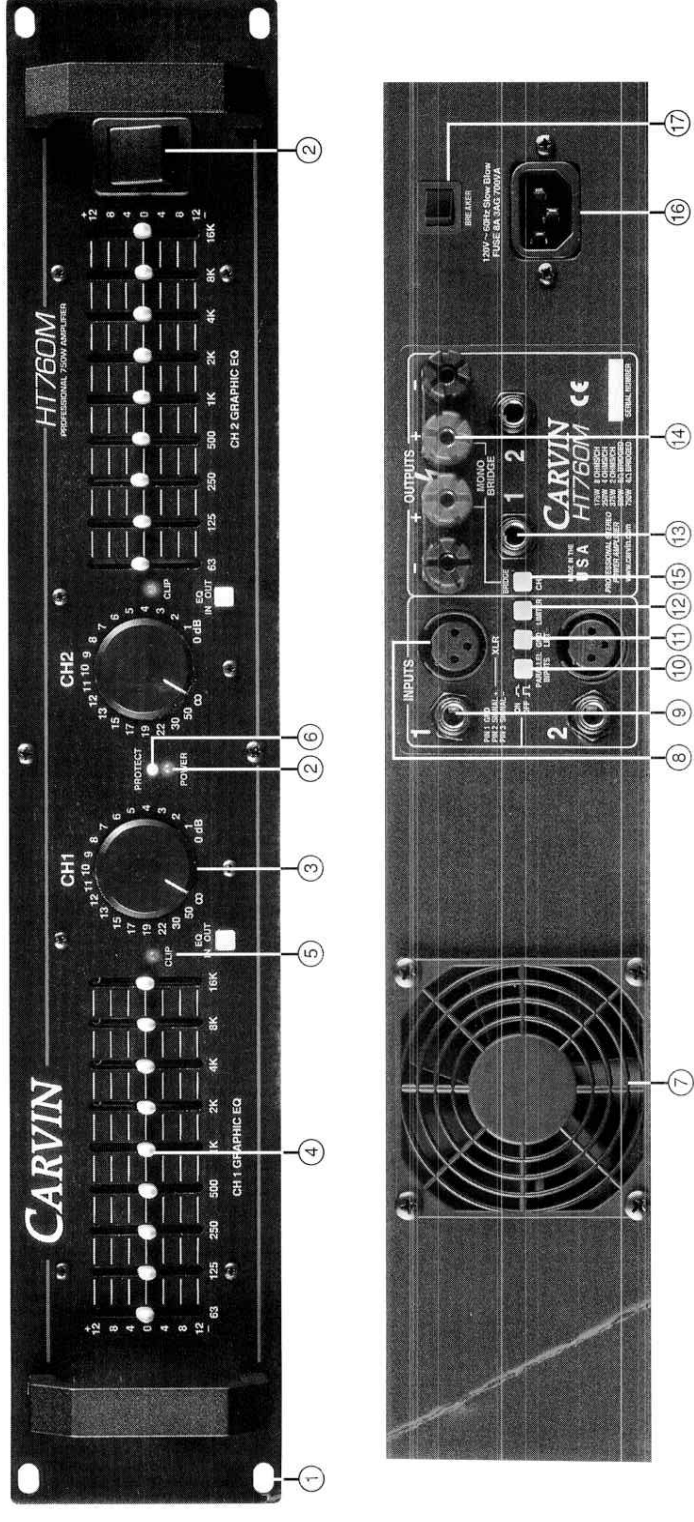
SAFETY INSTRUCTIONS (EUROPEAN)

The conductors in the AC power cord are colored in accordance with the following code:
GREEN & YELLOW—Earth BLUE—Neutral BROWN—Live
U.K. MAIN PLUG WARNING: A molded main plug that has been cut off from the cord is unsafe. NEVER UNDER ANY CIRCUMSTANCES SHOULD YOU INSERT A DAMAGED OR CUT MAIN PLUG INTO A POWER SOCKET.

REPLACEMENT PARTS LIST

Part's list for HT760M Power Amplifier	Carvin P/N	Ref. Des.	Description	Carvin P/N	Ref. Des.	Description
Binding Post, 2-wire, Red/Black	03-10450	D1	Dode 1H4003	60-40030	Q200	Transistor 2N5400
Binding Post, 2-wire, Red/Black	10-82005	D2	Dode 1H4003	60-40030	Q202	Transistor MPS42 HV, 1.0V NPN TO-237
Chassis	10-07509	D3	Dode 1H4003	60-40030	Q203	Transistor CEM92 HV PNP 1.0V TO-92
Fan, 24VDC 90mm	10-02408	D4	Dode 1H4003	60-40030	Q204	Transistor TIP32C 3A 100V NPN TO-220
Fan Guard, 90x90mm	03-90980	D5	Dode 1H4003	60-40030	Q205	Transistor TIP3C 3A 100V NPN TO-220
Handle, 2-screw rack	10-11120	D6	Dode 1H4003	60-40030	Q206	Transistor TIP3C 3A 100V NPN TO-220
Knob, Black, 1.5" Dia.	07-09001	D7	Dode 1H4003	60-40030	Q207	Transistor MLL2194 NPN 16A 250V 200W
Stand-off, 1/4" Dia, 6-32	03-63915	D8	Dode 1H4003	60-40030	Q208	Transistor MLL2194 PNP 16A 250V 200W
Front resistor pad 3 8" 00	10-15004	D9	Dode 1H4003	60-40030	Q209	Transistor MLL2193 PNP 16A 250V 200W
Front cover	10-07508	D10	Dode 1H4003	60-40030	R1	14W Resistor 2.2K .35 prep. 5% Carbon
Power cable (230V)	05-01003	D12	Dode 1H4003	60-40030	R2	14W Resistor 3.3K .35 prep. 5% Carbon
Power cord (230V)	05-28100	D13	Dode 1H4003	60-40030	R3	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	20-28100	D14	Dode 1H4003	60-40030	R4	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D15	Dode 1H4003	60-40030	R5	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D16	Dode 1H4003	60-40030	R6	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D17	Dode 1H4003	60-40030	R7	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D18	Dode 1H4003	60-40030	R8	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D19	Dode 1H4003	60-40030	R9	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D20	Dode 1H4003	60-40030	R10	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D21	Dode 1H4003	60-40030	R11	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D22	Dode 1H4003	60-40030	R12	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D23	Dode 1H4003	60-40030	R13	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D24	Dode 1H4003	60-40030	R14	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D25	Dode 1H4003	60-40030	R15	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D26	Dode 1H4003	60-40030	R16	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D27	Dode 1H4003	60-40030	R17	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D28	Dode 1H4003	60-40030	R18	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D29	Dode 1H4003	60-40030	R19	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D30	Dode 1H4003	60-40030	R20	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D31	Dode 1H4003	60-40030	R21	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D32	Dode 1H4003	60-40030	R22	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D33	Dode 1H4003	60-40030	R23	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D34	Dode 1H4003	60-40030	R24	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D35	Dode 1H4003	60-40030	R25	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D36	Dode 1H4003	60-40030	R26	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D37	Dode 1H4003	60-40030	R27	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D38	Dode 1H4003	60-40030	R28	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D39	Dode 1H4003	60-40030	R29	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D40	Dode 1H4003	60-40030	R30	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D41	Dode 1H4003	60-40030	R31	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D42	Dode 1H4003	60-40030	R32	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D43	Dode 1H4003	60-40030	R33	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D44	Dode 1H4003	60-40030	R34	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D45	Dode 1H4003	60-40030	R35	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D46	Dode 1H4003	60-40030	R36	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D47	Dode 1H4003	60-40030	R37	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D48	Dode 1H4003	60-40030	R38	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D49	Dode 1H4003	60-40030	R39	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D50	Dode 1H4003	60-40030	R40	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D51	Dode 1H4003	60-40030	R41	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D52	Dode 1H4003	60-40030	R42	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D53	Dode 1H4003	60-40030	R43	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D54	Dode 1H4003	60-40030	R44	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D55	Dode 1H4003	60-40030	R45	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D56	Dode 1H4003	60-40030	R46	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D57	Dode 1H4003	60-40030	R47	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D58	Dode 1H4003	60-40030	R48	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D59	Dode 1H4003	60-40030	R49	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D60	Dode 1H4003	60-40030	R50	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D61	Dode 1H4003	60-40030	R51	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D62	Dode 1H4003	60-40030	R52	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D63	Dode 1H4003	60-40030	R53	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D64	Dode 1H4003	60-40030	R54	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D65	Dode 1H4003	60-40030	R55	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D66	Dode 1H4003	60-40030	R56	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D67	Dode 1H4003	60-40030	R57	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D68	Dode 1H4003	60-40030	R58	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D69	Dode 1H4003	60-40030	R59	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D70	Dode 1H4003	60-40030	R60	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D71	Dode 1H4003	60-40030	R61	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D72	Dode 1H4003	60-40030	R62	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D73	Dode 1H4003	60-40030	R63	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D74	Dode 1H4003	60-40030	R64	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D75	Dode 1H4003	60-40030	R65	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D76	Dode 1H4003	60-40030	R66	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D77	Dode 1H4003	60-40030	R67	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D78	Dode 1H4003	60-40030	R68	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D79	Dode 1H4003	60-40030	R69	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D80	Dode 1H4003	60-40030	R70	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D81	Dode 1H4003	60-40030	R71	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D82	Dode 1H4003	60-40030	R72	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D83	Dode 1H4003	60-40030	R73	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D84	Dode 1H4003	60-40030	R74	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D85	Dode 1H4003	60-40030	R75	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D86	Dode 1H4003	60-40030	R76	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D87	Dode 1H4003	60-40030	R77	14W Resistor 1K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D88	Dode 1H4003	60-40030	R78	14W Resistor 10K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D89	Dode 1H4003	60-40030	R79	14W Resistor 100K .35 prep. 5% Carbon
10 amp Circuit breaker (230V)	15-25160	D90	Dode 1H4			

FRONT & REAR PANEL CONTROLS



FRONT PANEL

- 1. MOUNTING**
Sturdy one piece aluminum handles make for easy transporting along with facilitating rack installation. The rack mounting holes are designed on ISO standard spacing. Four 10-32 x .5" phillip machine screws are normally used to secure the amp. Rear support brackets are not required.
- 2. POWER SWITCH**
Check the power amp connections and verify the AC line power source before engaging the POWER switch. The red LED unmistakably indicates that all circuits are properly powered up. Yellow was chosen so the operator could see the other indicators from a distance.
- 3. CHANNEL LEVEL CONTROL**
A precision 41 step input LEVEL attenuate is used to adjust the volume levels. To deliver the amps full power without reducing the headroom of the signal source, the level controls should be turned up approximately 1/3 (15 on the dial).
- 4. DUAL 9-BAND GRAPHIC EQUALIZERS**
Controlling feed-back in a monitor system and fine tuning your sound are easy with the HT760M's two on-board EQ's. For feed-back, find the offending frequency (usually in the upper bands) and push the slider down to cut the level of that frequency, thus allowing more gain (volume) before feed-back. For tone control, move the sliders up or down from their center detent positions to suit your taste. The sliders are designed to move hard so adjustments will stay in place.
- 5. CHANNEL CLIP INDICATOR**
The red CLIP LED indicators will start to flash when each channel has reached its maximum output. Occasional flashing caused by lower bass frequencies is OK. However, consistent flashing caused from higher frequencies may damage high frequency drivers (excessive distortion). This does not cause damage to the amp.
- 6. PROTECT LED INDICATOR**
The red PROTECT LED provides the operator with information about the status of the amplifier. The PROTECT LED can come on under 3 different conditions (when this happens both channels are muted by disconnecting the output speaker relays):
 - 1) During power-up, the amplifier stays in a muted state for approx. 3 sec until it determines that everything is functioning normally (no output shorts or over temp conditions).
 - 2) When the output load draws excessive current or a direct short is detected caused by a shorted speaker cable or speaker system. Reset this condition by turning the amp off for two seconds and then on again. Check for shorted cables and the total speaker system impedance connected to each channel (2 ohms minimum per ch or 4 ohms BRIDGED).
 - 3) Overheating is usually determined when the amp stops in the middle of a performance and the PROTECT LED is on. If this is the cause, leave the amp on for the fan to cool the amp down. The amp will automatically reset within 1 to 3 minutes. The PROTECT LED will turn off when ready. Check for the following conditions: a) The rear intake air is restricted, b) Intake air is extremely warm, c) Front exhaust vents restricted, or d) Excessive speaker load (try other speakers or remove speakers if you have more than one connected to each channel). Again, the minimum impedance is 2 ohms per ch or 4 ohms BRIDGED)

REAR PANEL

- 7. COOLING FAN**
The fan is designed to pull air in to the amplifier. Do not restrict or block its intake or the amp will go into protect mode. Hot air entering the amp may also cause the amp to go into protect mode.
- 8. XLR CHANNEL INPUTS**
For most professional applications, use the XLR balanced inputs. This will help to reduce hum and allow for longer cable runs from your signal source (mixer, etc). Because this is a balanced input, the gain will be 6 dB higher than using the 1/4" input jack with non balanced lines. XLR pin configuration: Pin 1: Grounded through the GROUND LIFT switch, Pin 2: positive Bal. signal and Pin 3: negative Bal. signal.

9. CHANNEL 1/4" PHONE JACK INPUT

This stereo phone jack is designed to receive either balanced or unbalanced input signals. Balanced signals coming into this jack should be wired with the connector's tip going to signal + and the connector's ring to signal -. The connector's sleeve is then tied internally to ground through the GROUND LIFT switch.

10. PARALLEL OR "Y" INPUTS

The rear PARALLEL switch allows you to drive both channels from either input. All signals entering any input will be available on both channels. This eliminates Y adapter cables. This feature is used to "daisy chain" one piece of equipment to another. Just plug into the unused INPUT (1/4" or XLR) and it will become an output for other equipment.

11. INPUT GROUND LIFT

Many times sound systems are connected in such a manner to cause a grounded loop with the inputs that result in audible hum. The input (1/4" & XLR) GROUND LIFT switch on the rear panel will help eliminate this problem. If not, another way to eliminate ground loops is to install a "line matching" transformer between the amplifier input and the signal source.

12. LIMITERS

To activate the LIMITERS, engage the rear limiter switch. The built-in high quality limiters are recommended to hold down peaks that could cause early distortion. Limiters will help to rise the average power so that you can get more output from each channel. To check the effectiveness of the limiters when the channel starts to distort (under the amps full output), engage the limiters and hear the reduction of the distortion. If the distortion stops, you can turn the channel up for more power. The lower bass frequencies are most affected. **WARNING:** Do not check in an environment where the sound level could damage your ears!

13. SPEAKER OUTPUTS

The standard 1/4" SPEAKER jacks are used for most applications. Turn the amp off before connecting your speakers.

14. SPEAKER BINDING POSTS

For heavy-duty speaker connections, use the rear BINDING POSTS to connect your speakers. Wire sizes up to 7 gauge (50 amps) can be inserted into the binding post "side holes". Larger cable can be used with "banana" plugs which plug into the end of the binding posts (remove colored caps). Binding posts are spaced on ISO standards. Use the two center RED binding posts for BRIDGE speaker connections (see 15 BRIDGE MODE).

15. BRIDGE MODE—25V/70V DISTRIBUTION SYSTEMS

The "DCM" Series can be operated in bridge mode if you require a 25V / 70V distribution speaker system or a high powered mono (single channel) amp. With your amp off, push in the rear (recessed) BRIDGE switch after you have made your speaker connections to the rear center RED binding posts (ch 1 is + and ch 2 is -). No other speaker connectors or binding posts can be used at the same time! The INPUT and LEVEL is handled by channel 1. Channel 2 is non-operational. The minimum speaker impedance is 4 ohms or a 25V distribution line. **CAUTION:** The power developed by bridging your amp can destroy most speaker systems!

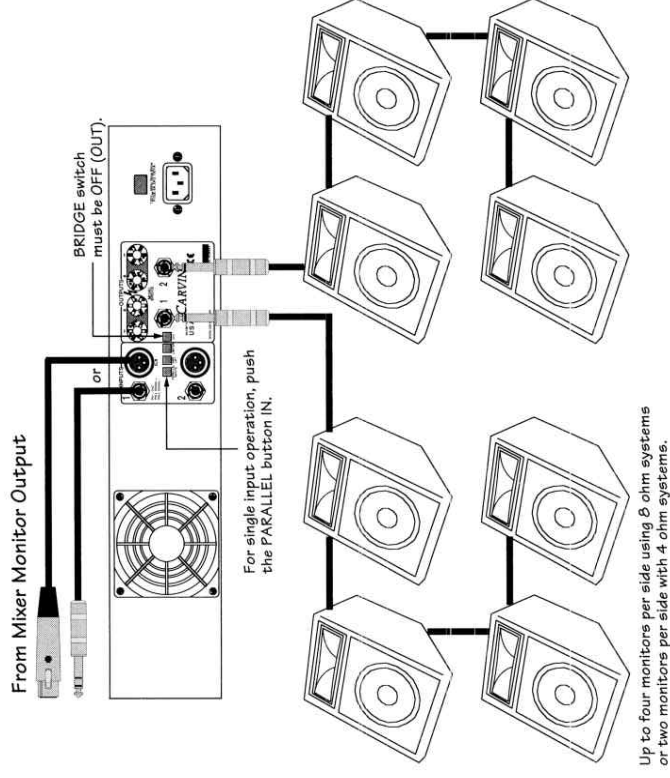
16. AC POWER

Your amp is designed to run on either 120V 60 Hz or 230V 50Hz depending on the model purchased. The voltage range for 120V model is 95V to 132V and for 230V model it is 195V to 253V. The rear heavy-duty AC receptacle will accept a standard grounded AC cord that is designed your country. Be sure to check your power source before plugging into a grounded (3 prong) outlet. Never defeat the grounded connection or electrocution may result! Firmly push the AC cord all the way into its receptacle.

17. AC CIRCUIT BREAKER

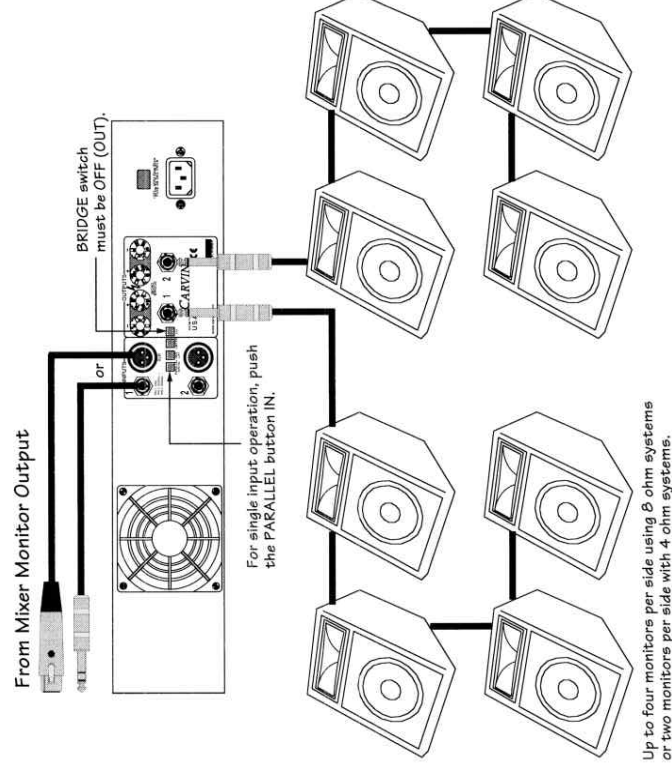
We have provided you with the convenience of a circuit breaker so that you will never have to replace a fuse. Occasionally the circuit breaker on your amp may have to be reset if high AC voltage surges are present or if the amp is used with excessive loads.

TYPICAL SINGLE MONITOR MIX SETUP



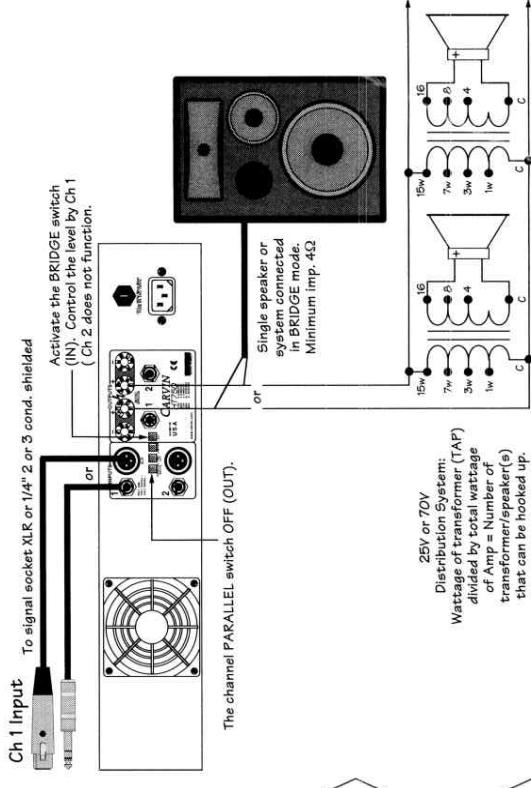
Up to four monitors per side using 8 ohm systems or two monitors per side with 4 ohm systems.

TYPICAL DUAL MONITOR MIX SETUP

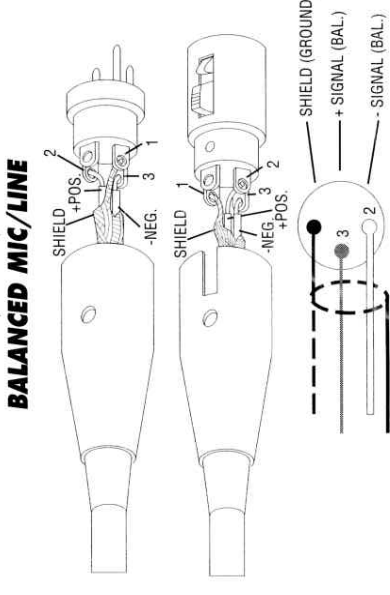


Up to four monitors per side using 8 ohm systems or two monitors per side with 4 ohm systems.

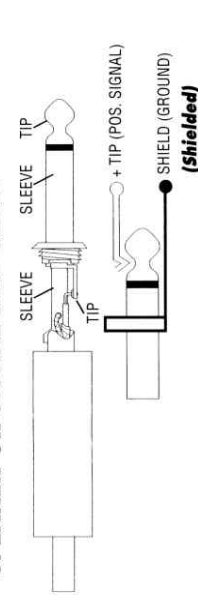
25V OR 70V DISTRIBUTION SYSTEM



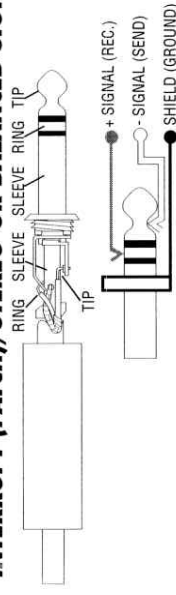
(Shielded) BALANCED MIC/LINE



(Unshielded) SPEAKER OR SIGNAL LINE CABLE



INTERRUPT (PATCH)/STEREO OR BALANCED SIGNAL LINE



* For monaural (mono) systems, depress the PARALLEL button (IN) and use only CHANNEL 1 input (speaker hookup identical to stereo). Mono is normally recommended for live stage applications. Live stereo sounds great in the center of the audience, however, the audience on one side will not hear the program material presented on the other side.