

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

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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.

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. Carvin assumes no responsibility for horn drivers or speakers damaged by this unit. 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 may call for a return authorization number. Describe in writing each problem. 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.

MAINTAINING YOUR EQUIPMENT

Avoid spilling liquids or allowing any other foreign matter inside the unit. The panel of your unit can be wiped from time to time with a dry or slightly damp cloth in order to remove dust and bring back the new look. As with all pro gear, avoid prolonged use in caustic environments (salt air). When used in such an environment, be sure the amplifier is adequately protected by rack, covers, etc..

REPLACEMENT PARTS LIST FOR DCM AMPS



CAUTION
RISK OF ELECTRIC SHOCK

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL! THIS UNIT CONTAINS HIGH VOLTAGE INSIDE!

03-00220 2 EACH	INSLTR MICA .0030".450"X .65"	46-10412 2 EACH	CAP POLY .1000UF 100VOLT 10%	58-15035 1 EACH	1.5K SMT .25W 1206 1% R18	60-75320 3 EACH	LED RED DIFFUSED 3MM T-1.00
03-00223 2 EACH	INSLTR MICA .0030"1.37"X .65"		C117,C217	58-15045 9 EACH	15K SMT .25W 1206 1% R23,R102,R103, R202, R203, R112, R212,R155,R255	60-75330 2 EACH	LED GREEN DIFFUSED 3MM T-1.00
03-00450 1 EACH	INSLTR 9.125x1.5x.01" SGL ADHV	46-47312-1 2 EACH	CAP POLY .0470UF 100V 10%PREP	58-15055 3 EACH	150K SMT .25W 1206 1% R11,R12,R260	60-75340 1 EACH	LED YELLOW DIFFUSED 3MM T-1.00
03-00475 1 EACH	SPACER PAD .1X .4X .75 W/ADHSV	47-10235 4 EACH	CAP ELEC 1,000 MFD 35V 20%	58-22035 5 EACH	2.2K SMT .25W 1206 1% R1,R137,R237, R191,R291	60-78150 1 EACH	REGULATOR VOLTAGE 15 +V 1 AMP
03-00503 8 EACH	INSULATOR .36X .36X .20" 85deg	47-22151 1 EACH	CAP ELEC 220 MFD 50VOLT 10% C18	58-22045 9 EACH	22K SMT .25W 1206 1% R26,R29,R106, R107, R125,R130,R206,R230,R225	60-79120 1 EACH	REGULATOR VOLTAGE 12 -V 500mA
03-82061 1 EACH	CABLE TIE 14.5Lx .19Wx 2" BNDL	47-47125 1 EACH	CAP ELEC 470 MFD 25VOLT 20% C7	58-22055 6 EACH	220K SMT .25W 1206 1% R31,R119, R140,R219,R240,R186	60-79150 1 EACH	REGULATOR VOLTAGE 15 -V 1 AMP
03-92521 6 EACH	STANDOFF LED .925 x .215 T1	49-10412 2 EACH	0.1UF SMT 5% CERAMIC 0805 C10,C13	58-27025 6 EACH	270.5 SMT .25W 1206 1% R108,R131, R132,R208,R231,R232	61-04733 1 EACH	DIODE ZENER 1N4733A 5.1V 1W
05-85622 1 EACH	CABLE ASSY, 5C 220MM	49-22035 13 EACH	SMT CAP 22uF 35v ELECTROLITIC	58-47025 2 EACH	470.5 SMT .25W 1206 1% R24,R32	61-40030 1 EACH	DIODE RECT GEN 1N4003 200V 1A
06-10028 24 EACH	MS PPH 4-40X .500 ZINC TYPE F	49-22212 1 EACH	0.0022UF SMT 10% FILM 0805 50V C14	58-47035 9 EACH	4.7K SMT .25W 1206 1% R2,R7,R10, R14,R188,R288,R135,R235,R20	62-00014 2 EACH	MMBTA14 SOT-23 SMT Q100,Q200
06-40050 7 EACH	TERMINAL VERT MALE PC MTG .250	49-27052 9 EACH	27 PF SMT 5% CERAMIC 0805	58-47045 6 EACH	47K SMT .25W 1206 1% R33,R126, R226,R180,R280,R281	62-06001 7 EACH	DIODE ULTRA FAST 600V 1A SMA
07-01602 1 EACH	KNOB "6" 6x6x9.7mm GREY CAP S3	49-39052 2 EACH	39PF SMT 5% CERAMIC 0805 C123,C223	58-68035 2 EACH	6.8K SMT .25W 1206 1% R104,R204	62-19140 24 EACH	1N914 HI SPD SMT 250mW DIODE
07-01603 3 EACH	KNOB "6L" 6x6x17.4mm GREY CAP S1,S2,S4	49-47312 6 EACH	0.047UF SMT 10% FILM 0805 50V	58-68045 1 EACH	68K SMT .25W 1206 1% R17	62-20430 4 EACH	NJM2043SMT(TESTED) DUAL HFREQ
12-00880 1 EACH	HEATSINK 8"L 1pc FAN MOUNTED	49-82052 2 EACH	82PF SMT 5% CERAMIC 0805 C121,C221	58-92201 8 EACH	22 SMT 1W 2512 20% R38,R39,R40, R41,R133,R134,R233,R234	62-29010 1 EACH	NJM2901SMT SINGLE SUPPLY A3
15-00105 2 EACH	COIL AIR 1.5uH 14AWG L100,L200	52-10015 1 EACH	RES 10.00 OHM .50W 5% CARBON R27	58-95102 8 EACH	510 SMT 1W 2512 5% R6,R9,R36, R37,R127,R136,R227,R236	62-45650 3 EACH	NJM4565 SMT DUAL HI FREQ A6,A7,A2
21-31100 1 EACH	RECEPTACLE AC W/FAST-ON CHASS PL1	55-03300 24 EACH	RES .33 OHM 5W 5% SB VERT R142,R143, R144,R145,R146,R147,R148,R149,R150, R151, R152,R153,R242,R243,R244,R245, R246,R247,R248,R249, R250,R251, R252,R253	60-00014 1 EACH	TRANS MP5A14 DRLNGTN NPN T0-92 Q1	62-54001 5 EACH	MMBT5401LT1 PNP SOT-23 SMT Q2,Q3,Q6,Q101,Q201
21-40000 2 EACH	XLR FEMALE CONNECTOR W/O GRND J100,J200	56-35010 2 EACH	RES 350.00 OHM 10W 10% SB SDOF R44,R45	60-15032 2 EACH	TRANS MJE15032 NPN T0-220 Q107,Q207	62-55500 5 EACH	MMBT5550 NPN SOT-23 Q5,Q102,Q202,Q8,Q9
21-40001 2 EACH	XLR MALE CONNECTOR J1,J2	58-00035 2 EACH	0.0 SMT JUMPER 1206 R181,R282	60-15033 2 EACH	TRANS MJE15033 PNP T0-220 Q108,Q208	70-05712 4 EACH	RELAY SPDT 12A@120VAC/24V COIL K100,K200,K1,K2
21-45000 3 EACH	SPEAKON 4-POLE PCMTG #N4LMD-V J3,J103,J203	58-10025 2 EACH	100.5 SMT .25W 1206 1% R128,R228	60-21193-1 *STD 12 EACH	TRANS BIPOLAR MUL21193-PREPPED Q109,Q110,Q111,Q112,Q113, Q114,Q209,Q210,Q211,Q212, Q213,Q214	70-22125 1 EACH	FUSE MDA 25.00A SLOW 6.35X32MM
21-52345 2 EACH	JACK .250 PHONE MONO STEEL J105,J205	58-10035 9 EACH	1K SMT .25W 1206 1% R8,R15,R22,R34, R111,R129,R211,R229,R187	60-21194-1 *STD 12 EACH	TRANS BIPOLAR MUL21194-PREPPED Q115,Q116,Q117,Q118,Q119,Q120, Q215,Q216,Q217,Q218, Q219,Q220	71-09251 2 EACH	POT 9 D-P 25F B10K THREAD BSH P100,P200
23-03529 2 EACH	FUSEHOLDER CLIPS 3AG VERT MTG F1	58-10045 24 EACH	10K SMT .25W 1206 1% R5,R13,R19,R28, R30,R35,R100,R101,R113,R154,R156, R200,R201,R213,R254,R256,R183, R185,R190 R283,R285,R290,R189,R289	60-35041 2 EACH	RECTIFIER BRIDGE 35AMP/400V PC BR100,BR200	71-24450 2 EACH	POT VERT TRIMMER 500ohm P101,P102
23-08604 3 EACH	CONNECT HEADER .086" 4 PIN H6B H1 H6A	58-10055 7 EACH	100K SMT .25W 1206 1%	60-50200 4 EACH	DIODE GEN REC 1N5402 3A 200V D107,D108,D207,D208		
23-08605 1 EACH	CONNECT HEADER .086" 5 PIN H5	58-10065 2 EACH	1M SMT .25W 1206 1% R115,R215	60-50253 2 EACH	OPTO ISOLATOR VACTROL AXIAL OP100,OP200		
23-08612 1 EACH	CONNECT HEADER .086" 12 PIN H7	58-15025 2 EACH	150ohm SMT .50W 1206 1% R141,R241				
23-10002 3 EACH	CONNECT HEADER .100" 2 PIN H4,H8,H9						
23-11010 6 EACH	CONNECT HEADER 10 PIN STRAIGHT H1A,H1B,H2A,H2B,H3A,H3B						
25-02201 4 EACH	SWITCH DPDT PUSH PC MTG LOCKNG S1,S2,S3,S4 30-						
02000K 1 EACH	PCB CARD MAIN DCM1500/2000						
41-47322 3 EACH	CAP MYLR .0470UF 250VAC BOX C19,C20,C21						
42-10312 4 EACH	CAP ELEC 10,000 MFD 100V 20% C115,C116,C215,C216						
44-13520 2 EACH	JUMPER PCB 20AWG .350" X .175" B1,B3						
45-25152 4 EACH	CAP CERM 250PF 500VOLT 5% C106,C107,C206,C207						



DCM1500, DCM2000

The DCM Series professional amps are designed utilizing Carvin's 35 years of experience in power amp technology. They meet or exceed every standard for professional amplification. Their powder coated steel face plates, large recessed knobs and heavy-duty steel chassis reflect the manufacturing quality within. The DCM professional amps are available in five different models and carry the CE approval for world-wide use.

PURE—TRANSPARENT SOUND

Carvin considers the sound of an amp equally important as its reliability. To insure pure, uncolored sound, we designed one of the fastest responding power amps on the market today. High slew rates of 50v/μs deliver superb transient response. High frequencies are transparent and open—even at extreme levels. Linear feedback circuits reduce distortion to near the theoretical zero limit preventing any type of harshness which would lead to ear fatigue. The DCM Series amps deliver flat, transparent, unaltered sound—especially important to the studio user. And you can drive any type of reactive loads, including 70V transformer distribution systems. These amps are designed to deliver non-stop, continuous power and are completely protected from heat and short circuits.

ULTRA RUGGED FOR TOURING

Every chassis is made from heavy-duty 16 gauge steel that is plated before being painted to prevent rust. All internal cabling is neatly tied and harnessed. Every circuit card is FR-4 MILITARY SPEC, double-sided, through-hole plated, fire retardant glass epoxy. This insures that the solder flows on the top, bottom and through each hole of every component preventing components from shaking loose—even through constant tour use. XLR connectors, heavy-duty power switches, recessed knobs and machined front panels give the DCM amps a "tank-like" ability to handle rough, touring transport.

TOTALLY MODULAR

With the DCM Series, Carvin brings you totally modular construction. If you ever need an I/O (input/output) connector card because a connector wore-out, just unplug it and re-install the replacement card in minutes. You don't have to de-solder anything. This applies to every aspect of the DCM Series amps including the power supply, power cards, heat sinks and fans. Everything is connected by heavy-duty AMP™ and MOLEX™ type connectors for easy replacement—even the Toroid transformer is a total plug-in.

HEAVY-DUTY COOLING

Carvin offers up to 30% more cooling than comparable amps rated at the same wattage. This means that the DCM Series are thermally "over-engineered" to be sure heat will never be a concern. Even outdoor concerts in direct sunlight will not cause thermal shut down. Carvin uses precision 6063 T-5 aluminum high ratio heat sinks that are extruded for massive amounts of cooling. A high efficiency, multi-speed fan cools your amp quietly even when moving air at up to 115 CFM!

LIGHTER WEIGHT

For some companies weight reduction means cost reduction. Carvin however, uses expensive TOROID transformers to reduce weight. Toroids deliver massive amounts of "on demand" current for continuous 2 ohm operation. This gives the power supply a solid foundation yielding more headroom for the largest subwoofer application. Not only do toroids deliver high current, but they are known for reducing stray magnetic fields eliminating hum & noise. This is especially important for the recording industry.

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

The purpose of a limiter is to hold down peaks so the amp won't distort even with extra hot input signals (this protects 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 DCM Series limiters keep your sound pure and uncolored!

FRONT PANELS & CONNECTING UP

The DCM Series feature front panel signal, peak and protect LEDs which let you monitor the status of the amp. Balanced XLR input and through jacks are used to eliminate hum & noise. Speaker outputs features Twist-Lok connectors, plus 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 recessed bridge mode switch for delivering full power into a 4Ω load or 70V distribution system and a limiter ON/OFF switch that gives you the choice of using the internal limiter circuitry.

DCM POWER AMP SPECIFICATIONS:

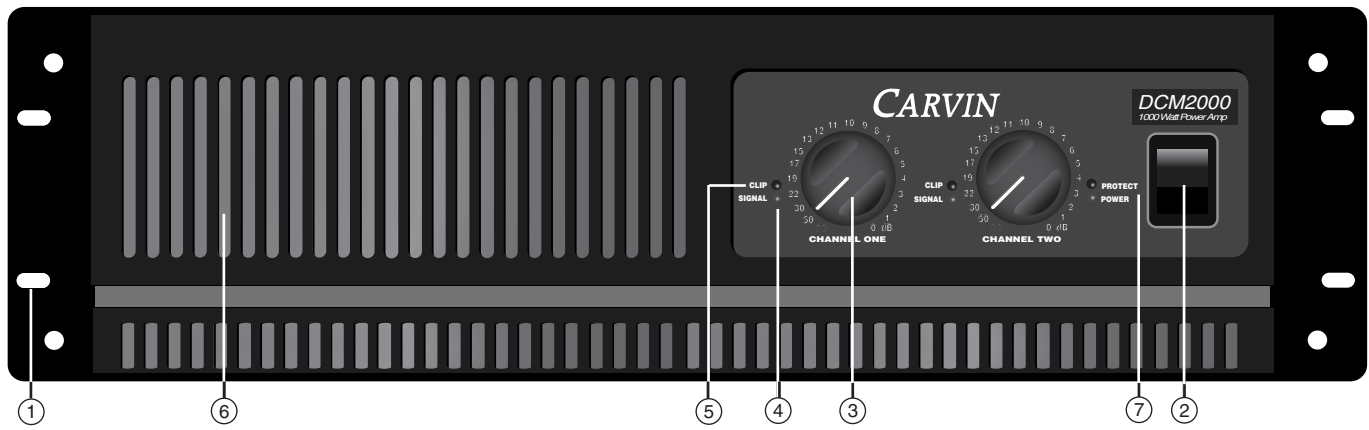
MODEL	DCM1500	DCM2000
Bridged RMS Continuous		
4Ω (20-20k Hz, <1.0%)	1500w	2000w
8Ω (20-20k Hz, <1.0%)	1000w	1400w
Both Channels RMS Continuous		
2Ω (20-20k Hz, <1.0%)	750/750w	1000/1000w
4Ω (20-20k Hz, <1.0%)	500/500w	700/700w
8Ω (20-20k Hz, <1.0%)	300/300w	450/450w
THD (Typical—1/2 power):	0.03%	0.03%
Damping Factor:	>450	>500
Slew Rate: bridged mode	>50v/μs	>50v/μs
Sensitivity: (4Ω, Vms)	1.0 V	1.0 V
Signal to Noise Ratio:	Above 100dB	
Frequency Response:	±0.5 dB, 20 Hz 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: 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 Switch • Input Connectors: Two each; Balanced XLR male/female • Speaker Output Connectors: Dual heavy-duty binding posts, two 1/4" & three (one for bridge use only) Twist-lok	
Dimensions:	5 1/4" High x 19" Wide x 10" Depth (3-space)	
Net Weight:	DCM1500: 32 lbs. DCM2000: 40 lbs.	

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

Serial No. _____ Invoice Date _____



12340 World Trade Drive, San Diego, CA 92128
800.854.2235 www.carvin.com



WARNING

This product produces high sound pressure levels that could damage your hearing. Use with caution.

FRONT PANEL

1. MOUNTING

A sturdy one piece 12 gauge steel face plate accomodates 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 yellow LED unmistakably indicates that all circuits are properly powered up.

3. CHANNEL LEVEL CONTROL

A precision input LEVEL attenuator is used to adjust the volume levels. Set the controls at 10 or higher to deliver the amps maximum power without reducing the headroom of the signal source.

4. CHANNEL SIGNAL INDICATOR

The green SIGNAL LED indicators will start to flash when there is a signal present at the channel input.

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. FRONT COOLING VENTS/FAN

Upon rack installation, the rear of the amp must be fully exposed to room temperature air. The surrounding air should not be warmer than 120° or the thermal protection could activate the PROTECT LED. The front cooling vents are not to be restricted from exhausting the warm air.

7. 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 protecting your speakers);

- 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 comes 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) The intake air is extremely warm, c) The front exhaust vents are 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

8. XLR CHANNEL INPUTS AND THROUGH

XLR balanced inputs helps to reduce hum and allows for longer cable runs from your signal source (mixer, etc). XLR pin configuration: Pin 1: Grounded through the GROUND LIFT switch, Pin 2: positive Bal. signal and Pin 3: negative Bal. signal.

9. PARALLEL SWITCH

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 and it will become an output for other equipment. All connections remain balanced.

10. 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 GND LIFT switch on the rear panel will help eliminate this problem. If not, another way to eliminate ground loops is to install Carvin's MTF55 ground lift adaptor between the amplifier input cable and the signal source which breaks the connection of the ground wire.

11. LIMITERS

To activate the LIMITERS, engage the rear limiter switch. The built-in high quality opto isolator 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!

12. SPEAKER OUTPUTS

The standard 1/4" SPEAKER jacks are recommended for lower power applications. Twist-Lok connectors are provided for high power connections. The center Twist-Lok is for Bridged output only. Turn the amp off before connecting your speakers.

13. SPEAKER BINDING POSTS

For other high power 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 14 BRIDGE MODE).

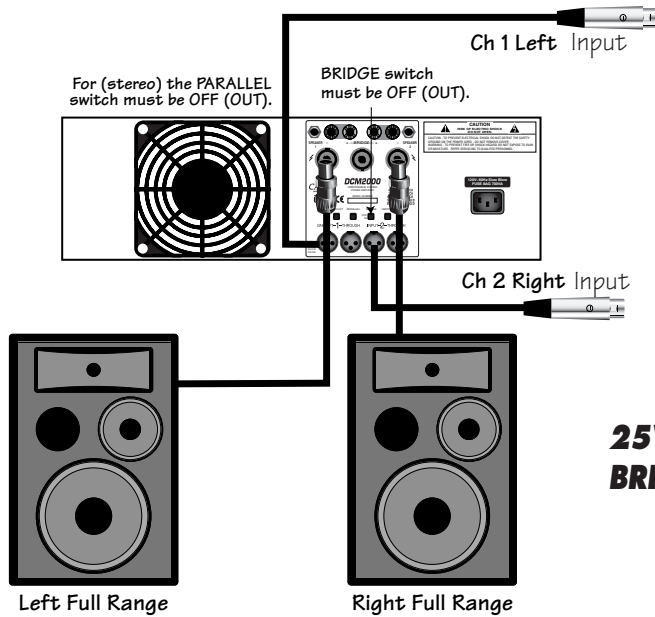
14. BRIDGE MODE—25V/70V DISTRIBUTION SYSTEMS

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 Twist-Lok or 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. CAUTION: The power developed by bridging your amp can destroy most speaker systems!

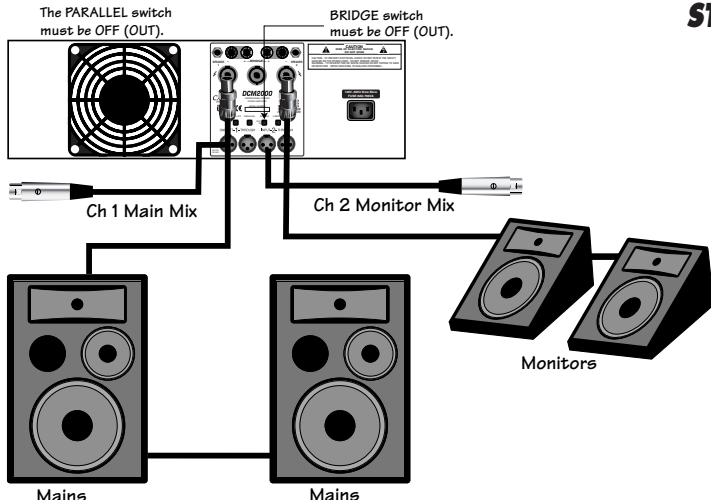
15. AC POWER

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 cord all the way into its receptacle.

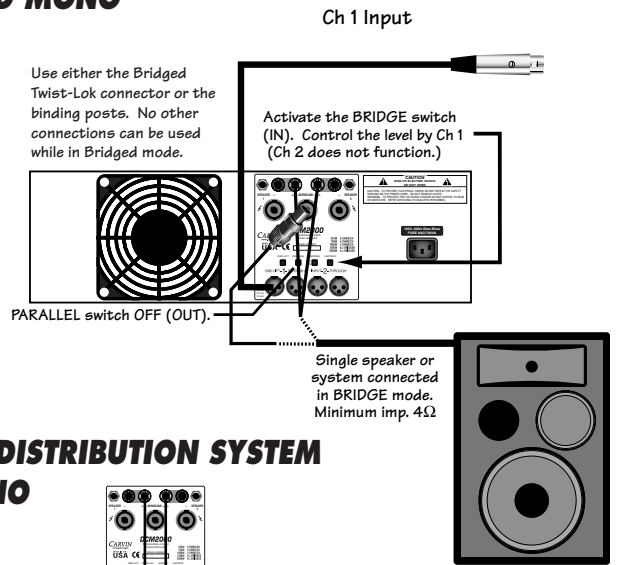
TYPICAL STEREO SETUP



MONO MAINS & MONITORS

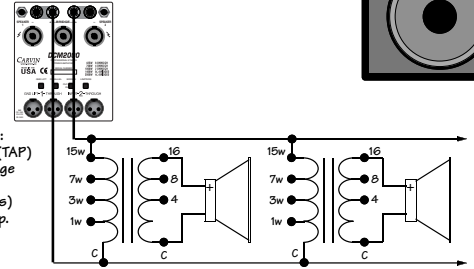


BRIDGED MONO

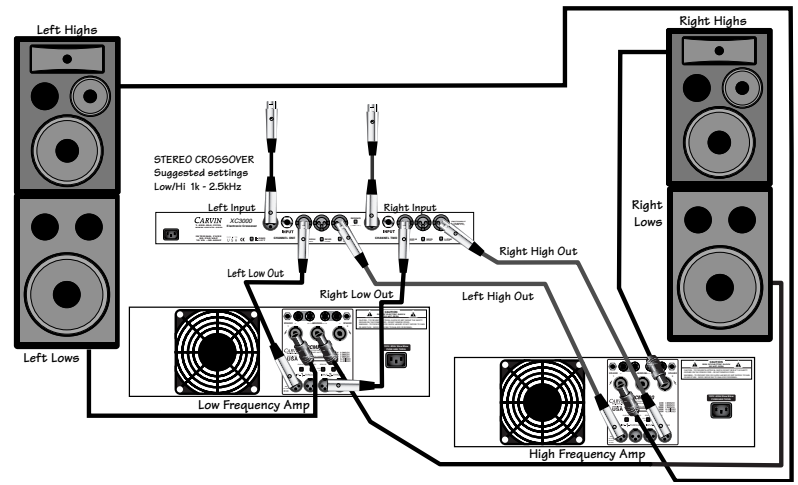


25V OR 70V DISTRIBUTION SYSTEM BRIDGED MONO

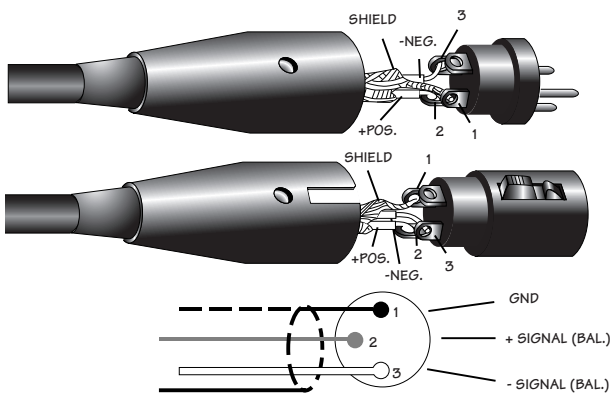
25V or 70V Distribution System:
Wattage of transformer (TAP) divided by total wattage of Amp = Number of transformer/speaker(s) that can be hooked up.



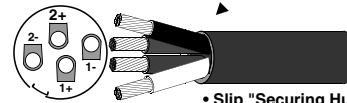
STEREO BIAMPING



BALANCED MIC/LINE XLR CABLES

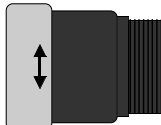


— Solder tinned wires 1/4"
— Strip cable insulation back 3/4"

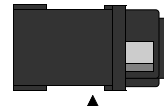


Twist-Lok

- Slip "Securing Hub" then "Cable Clamp" over cable before attaching wires.
- Connection Configuration:
Black (1+) / pos. full range mode, Low pos. Bi amp mode
White (1-) / neg. full range mode, Low neg. Bi amp mode
Red (2+) / not used
Green (2-) / not used
- Solder wires in contacts or use hex screws provided.



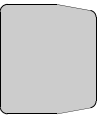
Twist-Lok Housing



Contact Insert



Cable Clamp



Securing Hub

HELPFUL HINTS

- 1) NO SOUND FROM CH 2: The rear recessed BRIDGE switch has been inadvertently pushed in.
- 2) STEREO CHANNELS SOUND THE SAME: The rear PARALLEL switch has been inadvertently pushed in.
- 3) NO HIGH FREQUENCIES: Tweeters or midrange drivers have been damaged or blown from feedback or overpowering.
- 4) SYSTEM HUM: Try switching the GND LIFT switch IN or OUT (depending on your use). If hum is not eliminated, then use Carvin's MTF55 XLR cable ground lifter by connecting it inline to your XLR cable(s).
- 5) POOR SOUND (BASS): The speaker systems are wired out of phase to each other. To correct, reverse the wires on one speaker connector only and your bass response will improve.
- 6) MAIN AC BREAKER TRIPS: Each high powered amp may require a separate 20 amp circuit breaker (230V: 10 amp) for delivering full power. Note: Some 120V homes have only 15 amp breakers.