



DCM2000, DCM2500, DCM2570

Pristine sound, brute power and no-fault reliability make the DCM amps the power amp of choice for pro audio. Massive Toroid power supplies with huge capacitors deliver the bass that kick drums demand. Designed for continuous operation, overheating is not a problem especially down at minimum impedances where other amps simply turn off.

Each DCM is hand built at our San Diego factory featuring all steel construction, recessed controls and heavy-duty power components. The rock-solid, efficient design with its superb testimonial-proven sound makes the USA built DCM an amp you'll own for years.

PURE—TRANSPARENT SOUND

Carvin considers the sound of an amp equally important as to its reliability. To insure pure, uncolored sound, we build one of the fastest power stages 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 harshness which would lead to ear fatigue. The DCM deliver transparent, unaltered sound—especially important to the studio user. Drive any type of reactive loads, including 70V transformer distribution systems.

ULTRA RUGGED FOR TOURING

Every chassis is made from heavy-duty 16 gauge steel that is plated before painted to prevent rust. All internal cabling is neatly tied and harnessed. Every circuit card is FR-4 MILITARY SPEC, double-sided, fire retardant glass epoxy. Plated through-holes insure that the solder flows on the top, bottom and through each hole of every component preventing components from shaking loose. Speakon™ connectors, heavy-duty power switches, recessed knobs, all give the DCM amps a "tank-like" ruggedness.

TOROID POWER SUPPLY

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 large subwoofer applications. Not only do toroids deliver high current, but they are known for reducing stray magnetic fields eliminating hum & noise. This is especially important to the recording industry.

MODULAR CONSTRUCTION

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 and re-install the replacement card. 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 plug-in.

DISTORTION-FREE LIMITERS

The purpose of a limiter is to hold down peaks so the amp won't distort with extra hot input signals (helps protect speakers). In addition, a well designed limiter can increase your amp's average output as much as 3 dB allowing levels to be turned up without peak distortion. Part of Carvin's design uses the more expensive, distortion-free linear "opto isolators". Unlike amps that use FET controlled limiters, which inject small amounts of distortion, the DCM Series limiters keep your sound pure and uncolored!

FRONT PANELS & CONNECTING UP

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.

USA customers register online at: www.carvin.com/registration

All other countries register online at: www.carvinworld.com/registration

The DCM Series feature front panel signal, peak and protect LEDs which let you monitor the status of the amp. Both channels use detente level controls allowing you to see your settings at a glance. Balanced TRS & XLR input connectors are used to eliminate hum & noise. Speaker outputs feature heavy-duty binding posts, Speakon™ connectors and 1/4" jacks.

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 together eliminating Y cables for patching multiple amp systems. The accessory group also features a BRIDGE MODE switch to deliver twice the power into a "mono" load or full power into a 70V distribution system, and a LIMITER ON/OFF switch gives the choice of using the internal limiter circuitry.

DCM POWER AMP SPECIFICATIONS:

MODEL	DCM2000	DCM2500	DCM2570
Bridged RMS Continuous			
4Ω, (20-20k Hz, <1.0%)	2000w	2500w	—
8Ω, (20-20k Hz, <1.0%)	1400w	1700w	2400
Both Channels RMS Continuous			
2Ω (20-20k Hz, <1.0%)	1000/1000w	1250/1250w	—
4Ω (20-20k Hz, <1.0%)	700/700w	850/850w	1200/1200
8Ω (20-20k Hz, <1.0%)	425/425w	500/500w	700/700
THD (20-20k Hz 50% power)	0.03%	0.03%	0.03%
THD (20-20k Hz 90% power)	0.1%	0.1%	0.1%
Damping Factor:	>500	>500	>500
Slew Rate: bridged mode	>50v/μs	>50v/μs	>50v/μs
Sensitivity: (4Ω, Vms)	1.0 V	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 detente 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 & 1/4" • Speaker Output Connectors:		
Dual heavy duty binding posts, three Speakon™	and four 1/4"		
Internal Fuse SLOW BLOW - DCM2000, DCM2500, DCM2570:	25A, 240V/15A		
Dimensions:	5 1/4" High x 19" Wide x 10" Depth (3-space): 13.3 x 48.3 x 25.3 cm		
Net Weight:	DCM2000: 34 lbs. (16.4Kgs), DCM2500: 39 lbs. (16.6Kgs), DCM2570: 39 lbs. (16.7Kgs)		

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

Serial No. _____ Invoice Date _____

CARVIN

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

Sturdy one piece 12 gauge steel face plate accommodates standard 19" 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. Yellow is used so the operator can see the red indicators (clipping or protect) from a distance.

3. CHANNEL LEVEL CONTROL

A precision input LEVEL attenuator is used to adjust the volume levels. To deliver the amps maximum power without reducing the headroom of the signal source, the level controls should be turned full on.

4. CHANNEL SIGNAL INDICATOR

The green SIGNAL LED indicators will start to flash when there is a signal passing to your speakers (-30dBu). This lets you know when the amp is passing a signal to your speaker connectors.

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. 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°F 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, the RED PROTECT LED will illuminate. 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.
- 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). The minimum impedance is 2 ohms per ch or 4 ohms BRIDGED. DCM2570 minimum load is 4 ohms per ch or 8 ohms BRIDGED.

REAR PANEL

8. CHANNEL INPUTS AND THROUGH

Balanced or Unbalanced 1/4" TRS inputs can be used along with the balanced XLR's. The male "THROUGH" XLR connector carries the same signal as the female XLR to daisy chain channels or additional amps. XLR pin configuration: Pin 1: Grounded through the GROUND LIFT switch, Pin 2: positive Bal. signal and Pin 3: negative Bal. signal.

9. PARALLEL OR "Y" INPUTS

The rear PARALLEL switch "IN" allows you to drive both channels from either input in which a signal entering any input will be available on both channels eliminating Y adapters.

10. INPUT GROUND LIFT

Many times sound systems are connected in such a manner to cause a grounded loop with the inputs which result in audible hum. The input GND LIFT (1/4" & XLR) 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 Lifter" between the amplifier input and the signal source. This isolates the input ground from the AC power ground.

11. LO CUT (DCM2500, DCM2570)

The LO CUT switch inserts a 40Hz, 3rd order, high pass filter. This will remove sub audio frequencies from damaging speakers and wasting inaudible power. It is active when the switch is pushed "IN".

12. LIMITERS

To activate the LIMITERS, engage the rear limiter switch to the "IN" position. The built-in "optio" limiters are recommended to hold down peaks that could cause early distortion. This will help to raise 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 full output), engage the limiters and hear the reduction of the distortion. If the distortion stops, you can try to 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 1/4" AND SPEAKON™ OUTPUTS

The standard 1/4" SPEAKER jacks are offered for low power applications. Speakon™ connectors are provided for high power application. Secure the Speakon™ connection by turning to the right. The center Speakon™ is for Bridge only. Turn the amp off before connecting your speakers. DCM 2570 minimum load 4 ohms

14. BINDING POST OUTPUTS

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 from the top of the binding post). Binding posts are spaced on ISO standards. Use the two center RED binding posts to BRIDGE both power amps (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, which can double your power into a single load. With your amp off, push "IN" the rear (recessed) BRIDGE switch after you have made your connections to either the center bridge Speakon™ or the rear center RED binding posts (ch 1 is + and ch 2 is -). Select carefully or damage may result to your speakers. This is why the switch has been recessed. 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! DCM2570 minimum load is 8 ohms in BRIDGE

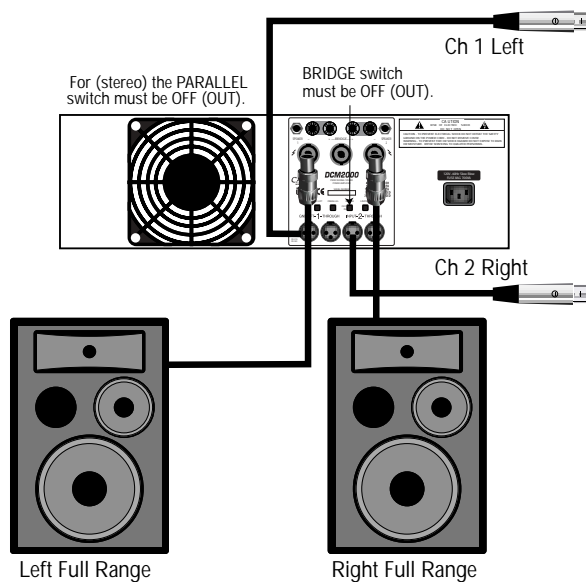
16. AC POWER

Your amp is designed to run on either 120V 60 Hz or 240V 50Hz depending on the model purchased. The voltage range for 120V model is 95V to 132V and for 230V model it is 195V to 255V. The rear heavy-duty AC receptacle will accept a standard grounded AC cord that is designed for 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 power cord all the way into its receptacle. In the case of a blown fuse; unplug the amp, remove the lid and replace the fuse located in the back corner above where the AC cord connects to the circuit board.

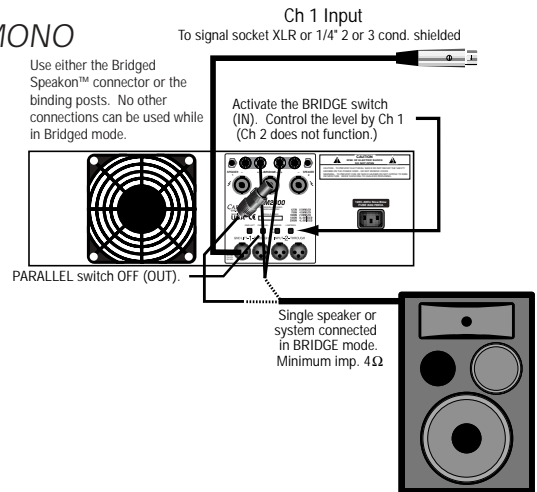
FUSE: The fuse is located within the main chassis above the AC connector mounted on the rear, inside the PC card. Normally if the fuse fails, the amp will require service. See spec. chart for fuse values.

NOTE: Each amp will require a dedicated circuit if you are driving the amp to its full output. There will be a sustained loss of power if the AC voltage falls below the rated 120V or 230/240V. Use a heavy gauge power cable and power source.

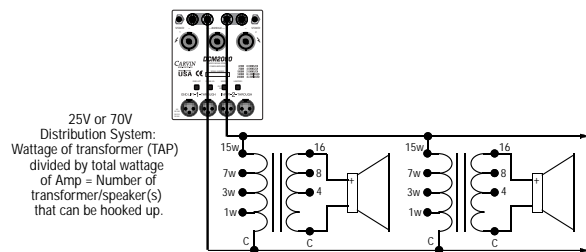
TYPICAL STEREO SETUP



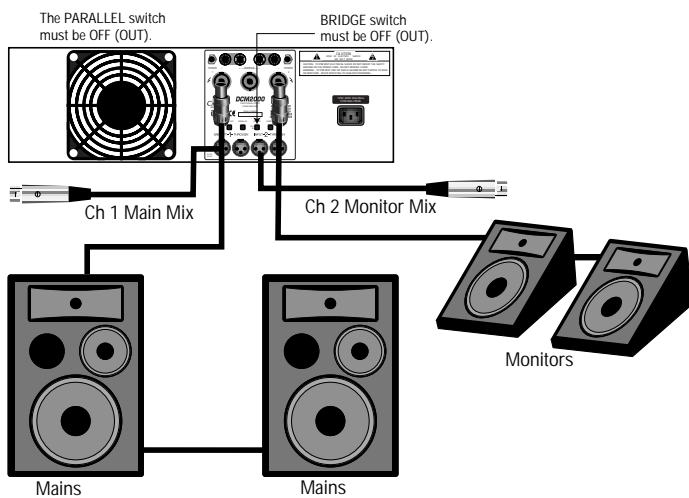
BRIDGED MONO



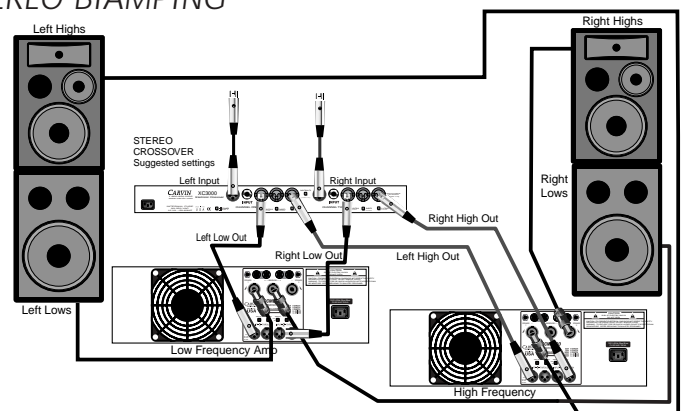
25V OR 70V DISTRIBUTION SYSTEM



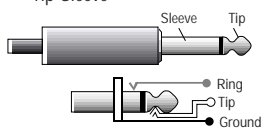
MONO MAINS & MONITORS



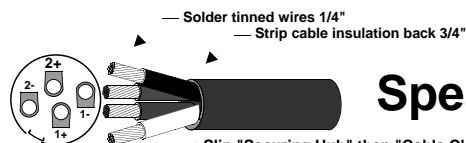
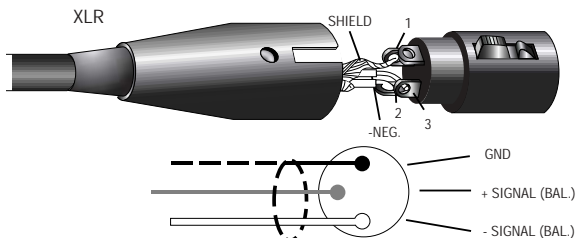
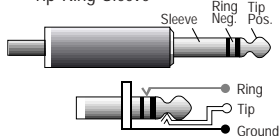
STEREO BIAMPING



TS 1/4" Unbalanced Tip-Sleeve

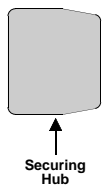
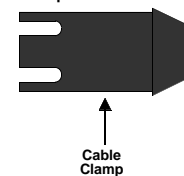
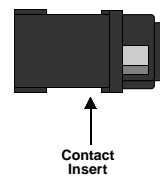
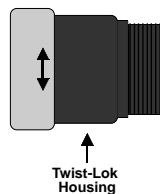


TRS 1/4" Balanced Tip-Ring-Sleeve



Speakon™

- Slip "Securing Hub" then "Cable Clamp" over cable before attaching wires.
- Connection Configuration:
Black (1+) / positive
White (1-) / negative
Red (2+) / positive
Green (2-) / negative
- Solder wires in contacts or use hex screws provided.



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 to much power.
- 4) SYSTEM HUM: Switch the rear GND LIFT switch IN or OUT. If the hum is not eliminated, then install Carvin's MTF55 "Ground Lifter" between the amplifier input and signal source. This isolates the input ground from the AC power ground.
- 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 sound, especially the bass response will improve.
- 6) DEDICATED CIRCUIT BREAKER: Each amp will require a dedicated circuit breaker for its full output. There will be a sustained loss of power if the AC voltage falls below the rated 120V or 230/240V input.



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			150K SMT .25W 1206 1% R11,R12,R260			D32,D180
03-00475	1 EACH	SPACER PAD .1X .4X .75 W/ADHSV			C127,C227	58-15055	3 EACH	2.2K SMT .25W 1206 1% R1,R137,R237, R191,R291	60-75340	1 EACH	LED YELLOW DIFFUSED 3MM T-1.00
03-00503	8 EACH	INSULATOR .36X .36X .20" 85deg	47-10235	4 EACH	CAP ELEC 1,000 MFD 35V 20%	58-22035	5 EACH	22K SMT .25W 1206 1% R26,R29,R106, R107, R125,R130,R206,R230,R225			D3
03-82061	1 EACH	CABLE TIE 14.5Lx .19Wx 2" BNDL	47-22151	1 EACH	CAP ELEC 220 MFD 50VOLT 10% C18	58-22045	9 EACH	220K SMT .25W 1206 1% R31,R119, R140,R219,R240,R186	60-78150	1 EACH	REGULATOR VOLTAGE 15 +V 1 AMP
03-92521	6 EACH	STANDOFF LED .925 x .215 T1	47-47125	1 EACH	CAP ELEC 470 MFD 25VOLT 20% C7			270.5 SMT .25W 1206 1% R108,R131, R132,R208,R231,R232	60-79120	1 EACH	REGULATOR VOLTAGE 12 -V 500mA
		USE ON D2,D3,D181,D180,D31,D32	49-10412	2 EACH	0.1UF SMT 5% CERAMIC 0805 C10,C13	58-22055	6 EACH	470.5 SMT .25W 1206 1% R24,R32	60-79150	1 EACH	REGULATOR VOLTAGE 15 -V 1 AMP
05-85622	1 EACH	CABLE ASSY, 5C 220MM	49-22035	13 EACH	SMT CAP 22uF 35v ELECTROLITIC			4.7K SMT .25W 1206 1% R2,R7,R10, R14,R188,R288,R135,R235,R20			VR1
06-10028	24 EACH	MS PPH 4-40X .500 ZINC TYPE F	49-22035	13 EACH	C15,C16,C17,C102,C120,C124,C126, C181,C202,C220,C224,C226,C281	58-27025	6 EACH	47K SMT .25W 1206 1% R33,R126, R226,R180,R280,R281	60-79150	1 EACH	VR2
06-40050	7 EACH	TERMINAL VERT MALE PC MTG .250	49-22212	1 EACH	0.0022UF SMT 10% FILM 0805 50V C14	58-47025	2 EACH	68K SMT .25W 1206 1% R17	61-04733	1 EACH	DIODE ZENER 1N4733A 5.1V 1W
		QC1,QC2,QC3,QC4,QC5,QC6,QC7	49-27052	9 EACH	27 PF SMT 5% CERAMIC 0805	58-47035	9 EACH	22 SMT 1W 2512 20% R38,R39,R40, R41,R133,R134,R233,R234	61-40030	1 EACH	DIODE RECT GEN 1N4003 200V 1A
12-00880	1 EACH	HEATSINK 8"L 1pc FAN MOUNTED			C100,C101,C103,C104,C200,C201, C203,C204,C280	58-47045	6 EACH	TRANS MPSA14 DRLNGTN NPN T0-92 Q1			D24
15-00105	2 EACH	COIL AIR 1.5uH 14AWG L100,L200	49-39052	2 EACH	39PF SMT 5% CERAMIC 0805 C123,C223	58-47055	6 EACH	TRANS MJE15032 NPN T0-220	62-00014	2 EACH	MMBTA14 SOT-23 SMT Q100,Q200
21-31100	1 EACH	RECEPTACLE AC W/FAST-ON CHASS PL1	49-47312	6 EACH	0.047UF SMT 10% FILM 0805 50V			Q107,Q207	62-06001	7 EACH	DIODE ULTRA FAST 600V 1A SMA
21-40000	2 EACH	XLR FEMALE CONNECTOR W/O GRND			C3,C4,C9,C11,C105,C205	58-68035	2 EACH	60-15032			D11,D12,D4,D5,D6,D7,D9
		J100,J200	49-82052	2 EACH	82PF SMT 5% CERAMIC 0805 C121,C221	58-68035	2 EACH	60-15033	62-19140	24 EACH	1N914 HI SPD SMT 250mW DIODE
21-40001	2 EACH	XLR MALE CONNECTOR J1,J2	52-10015	1 EACH	RES 10.00 OHM .50W 5% CARBON R27	58-68045	1 EACH	60-15033			D1,D8,D10,D13,D14,D19,D20, D21,D22,D23,D100,D104,D106, D200,D204,D206,D15,D16,D25, D26,D27,D28,D29, D30
21-45000	3 EACH	SPEAKON 4-POLE PCMTG #N4LMD-V	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	58-92201	8 EACH	60-15032	62-20430	4 EACH	NJM2043SMT(TESTED) DUAL HFREQ
		J3,J103,J203			RES 5.00 OHM 5W 5% SB VERT			60-00014			A1,A5,A100,A200
21-52345	2 EACH	JACK .250 PHONE MONO STEEL	55-05025	4 EACH	R120,R121,R220,R221	60-15032	2 EACH	TRANS MJE15032 NPN T0-220	62-29010	1 EACH	NJM2901SMT SNGLE SUPPLY A3
		J105,J205	55-30035	2 EACH	RES 3.00KOHM 5W 5% SB WIRE R42,R43	60-15033	2 EACH	Q107,Q207	62-45650	3 EACH	NJM4565 SMT DUAL HI FREQ A6,A7,A2
23-03529	2 EACH	FUSEHOLDER CLIPS 3AG VERT MTG	56-35010	2 EACH	RES 350.00 OHM 10W 10% SB SDOF	60-21193-1	*STD 12 EACH	Q109,Q110,Q111,Q112,Q113, Q114,Q209,Q210,Q211,Q212, Q213,Q214	62-54001	5 EACH	MMBT5401LT1 PNP SOT-23 SMT
		F1			R44,R45			70-05712			Q2,Q3,Q6,Q101,Q201
23-08604	3 EACH	CONNECT HEADER .086" 4 PIN H6B H1 H6A	58-00035	2 EACH	0.0 SMT JUMPER 1206 R181,R282	60-21194-1	*STD 12 EACH	Q115,Q116,Q117,Q118,Q119,Q120, Q215,Q216,Q217,Q218, Q219,Q220	62-55500	5 EACH	MMBT5550 NPN SOT-23
23-08605	1 EACH	CONNECT HEADER .086" 5 PIN H5	58-10025	2 EACH	100.5 SMT .25W 1206 1% R128,R228			70-22125	1 EACH	RELAY SPDT 12A@120VAC/24V COIL	
23-08612	1 EACH	CONNECT HEADER .086" 12 PIN H7	58-10035	9 EACH	1K SMT .25W 1206 1% R8,R15,R22,R34, R111,R129,R211,R229,R187			71-09251	2 EACH	FUSE MDA 25.00A SLOW 6.35X32MM	
23-10002	3 EACH	CONNECT HEADER .100" 2 PIN H4,H8,H9			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	60-31000	3 EACH	70-22125	1 EACH	POT 9 D-P 25F B10K THREAD BSH	
23-11010	6 EACH	CONNECT HEADER 10 PIN STRAIGHT	58-10055	7 EACH	100K SMT .25W 1206 1%						P100,P200
		H1A,H1B,H2A,H2B,H3A,H3B			R21,R114,R157,R214,R257,R184,R284	60-35041	2 EACH	RECTIFIER BRIDGE 35AMP/400V PC	71-24450	2 EACH	POT VERT TRIMMER 500ohm
25-02201	4 EACH	SWITCH DPDT PUSH PC MTG LOCKNG	58-10065	2 EACH	1M SMT .25W 1206 1% R115,R215	60-50200	4 EACH	BR100,BR200			P101,P102
		S1,S2,S3,S4 30-						DIODE GEN REC 1N5402 3A 200V			
02000K	1 EACH	PCB CARD MAIN DCM1500/2000						D107,D108,D207,D208			
41-47322	3 EACH	CAP MYLAR .0470UF 250VAC BOX						OPTO ISOLATOR VACTROL AXIAL			
		C19,C20,C21						OP100,OP200			
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									