

OWNER'S MANUAL

C7-2K

C7-4K

C7-2000.4

C7-2200.5

DIGITAL MONOBLOCK FEATURES

- Digital Class-D Strapable Mono Block Amplifier
- Dual MOS-FET PWM Power Supply
- Stable Into 1 Ohm Mono Load
- 24 dB/Octave Variable Low Pass Filter
- 24 dB/Octave Variable Subsonic Filter
- 180 Degree Variable Phase Shift

- 9 dB/Octave Variable Bass Boost
- 4 Way Protection Circuit

 (Thermal, Voltage, Speaker Short and DC Offset)
- C7 Amplifiers Operating Voltage Range: 9V 16V
- 0 Awg Power & Ground Inputs
- Subwoofer Level Controller Included

DIGITAL MONOBLOCK SPECIFICATIONS

Rated Power Output (@ 12.5V)	1	C7-2K	C7-4K
- RMS Power, 1 Ohm Mono		2,000W x 1CH	4,000W x 1CH
- RMS Power, 2 Ohm Mono		1,200W x 1CH	2,200W x 1CH
- RMS Power, 4 Ohm Mono		800W x 1CH	1,200W x 1CH
Low Pass Frequency Crossover		35Hz ~ 250Hz	35Hz ~ 250Hz
Subsonic Filter		10Hz ~ 50Hz	10Hz ~ 50Hz
Phase Shift Control		0 ~ 180 Degree	0 ~ 180 Degree
Frequency Response		15Hz ~ 250Hz (+/- 1dB)	15Hz ~ 250Hz (+/- 1dB)
Input Sensitivity		0.2V ~ 6V (+/- 5%)	0.2V ~ 6V (+/- 5%)
Signal/Noise Ratio		90dB	90dB
T.H.D @ 4 Ohm		< 0.1%	< 0.1%
Efficiency @ 4 Ohm		90%	90%
Recommended Fuse Rating		200A (External Type Fuse)	400A (External Type Fuse)
Operationg Voltage		9V ~ 16V	9V ~ 16V
Dimensions		18.90 (L) Inches	23.25 (L) Inches
9.29(W) x 2.48(H)			

All features are subject to change in the continuing effort to improve the products without notice.

DIGITAL 4 CHANNEL FULL RANGE FEATURES

- Digital 4 Channel Full Range Amplifier
- Dual MOS-FET PWM Power Supply
- Stable Into 2 Ohm Stereo Load
- 12 dB/Octave Variable Low Pass Filter
- 12 dB/Octave Variable High Pass Filter
- Clipping Indicators For All Channels
- 4 Way Protection Circuit
 (Thermal, Voltage, Speaker Short and DC Offset)
- C7 Amplifiers Operating Voltage Range: 9V 16V
- 0 Awg Power & Ground Terminal
- Bandpass Capable
- Subwoofer Level Controller Included

DIGITAL 4 CHANNEL FULL RANGE SPECIFICATIONS

Rated Power Output (@ 14.4V)	C7-2000.4
DMCD 40L DILL	1.00014 2.511
- RMS Power, 4 Ohm Bridged	 1,000W x 2CH
- RMS Power, 2 Ohm Stereo	 500W x 4CH
- RMS Power, 4 Ohm Stereo	 300W x 4CH
High Pass Frequency Crossover	 20Hz ~ 4KHz
Low Pass Frequency Crossover	 40Hz ~ 4KHz
Frequency Response	 10Hz ~ 35KHz (+/- 1dB)
Input Sensitivity	 0.2V ~ 6V (+/- 5%)
Signal/Noise Ratio	 90dB
T.H.D @ 4 Ohm	 < 0.1%
Efficiency @ 4 Ohm	 86%
Recommended Fuse Rating	 150A (External Type Fuse)
Operationg Voltage	 9V ~ 16V
Dimensions	 14.60 (L) Inches
9.29(W) x 2.48(H)	

DIGITAL 5 CHANNEL FEATURES

- 4 Channel Full Range Digital Circuit &
 Stable into 2 Ohm Stereo Load
- CH5 is Digital Monoblock Circuit &
 Stable into 1 Ohm Load
- Dual MOS-FET PWM Power Supply
- Stable into 2 Ohm Mono Load
- 12 dB/oct, Variable Low Pass Filter
- 12 dB/oct, Variable High Pass Filter

Rated Power Output (@ 14.4V)

- 12dB/oct, Variable Subsonic Filter
- Band Pass Capable for CH3 & CH4
- Clipping Indicators for All Channels
- C7 Amplifiers Operating Voltage Range: 9V 16V
- 0 Awg Power & Ground Terminal
- 4 Way Protection Circuit
 (Thermal, Voltage, Speaker short and DC)
- Subwoofer Level Controller Included

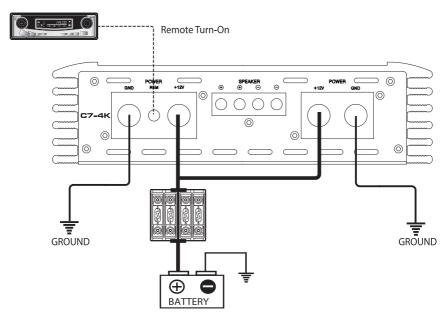
C7-2200.5

DIGITAL 5 CHANNEL SPECIFICATIONS

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- RMS Power, 4 Ohm Bridged	 360W x 2CH for CH1 - CH4
- RMS Power, 10hm Mono	 1,500W x 1 CH for CH5
- RMS Power, 2 Ohm Stereo	 180W x 4CH + 1000W x 1CH
- RMS Power, 4 Ohm Stereo	 125W x 4CH + 600W x 1CH
High Pass Frequency Crossover	 20Hz ~ 5KHz for CH1 - CH4
Low Pass Frequency Crossover	 50Hz ~ 5KHz for CH3 & CH4,
	35Hz ~ 250Hz for CH5
Subsonic Frequency Crossover	 10Hz ~ 50Hz
Frequency Response	 $10Hz \sim 25KHz$ (+/- $1dB$) for CH1 - CH4 &
	10Hz ~ 250Hz (+/- 1dB) for CH5
Input Sensitivity	 0.2V ~ 6V (+/- 5%)
Signal/Noise Ratio	 90dB
T.H.D @ 4 Ohm	 < 0.1%
Efficiency @ 4 Ohm	 85%
Recommended Fuse Rating	 200A (External Type Fuse)
Operationg Voltage	 9V ~ 16V
Dimensions	 18.90 (L) Inches
9.29(W) x 2.48(H)	

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POWER CONNECTIONS



A CAUTION

C7-2K, C7-4K, C7-200.4 & C7-2200.5 are not supplied with an intenrnal fuse. Make sure you install a in-line fuse holder from the positive (+) terminal of the battery.

C7-2K: 200A, C7-4K: 400A, C7-2000.4: 150A, C7-2200.5: 200A

+12V POWER

Connect the + 12V terminal of the amplifier to the positive (+) terminal of the battery using the same diameter cable as the ground cable, making sure you install a in-line fuse holder, approximately 300 or 400 mm from the positive (+) terminal of the battery.

GROUND

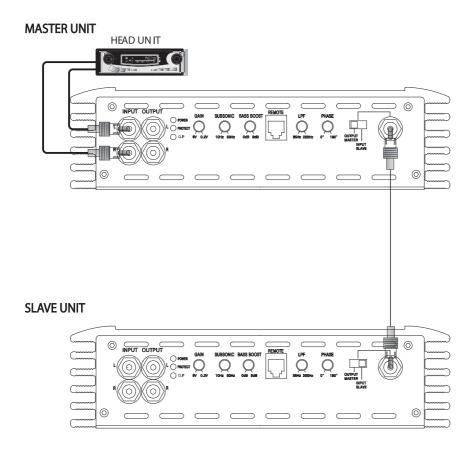
Disconnect the battery and connect the GND (Ground) terminal to the car's chassis. Keep this cable as short as possible (not longer than 20 inches or less) Making sure that the connection with the chassis is rust free and clear of paint or grime.

REMOTE

Connect the REM terminal of the amplifier to the power antenna terminal in the car ignition switch using 12 or 14 awg electrical wire.

STRAPPED INPUT & SPEAKER CONNECTION

MASTER & SLAVE RCA CONNECTION

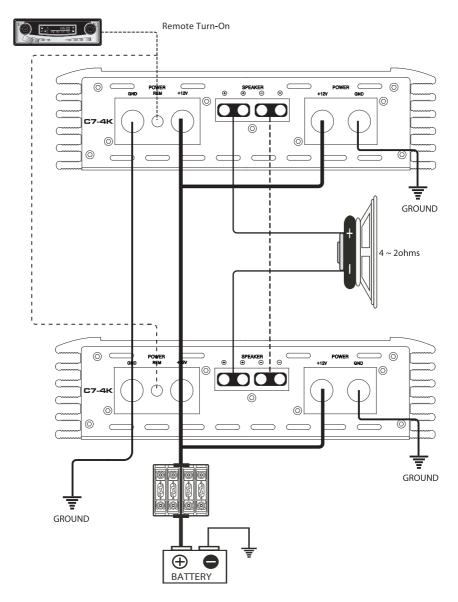


In a strapped mode configuration, the master amplifier has total control over the slave amplifier. When using a strapped mode to operate a subwoofer, the positive terminal of the subwoofer's voice coil must be connected to the positive terminal of the master amplifier and the negative terminal of the subwoofer's voice coil must be connected to the positive terminal of the slave amplifier. When wiring two amplifiers to a single subwoofer, please make sure power handling capabilities will not be exceeded.

A CAUTION

C7-2K & C7-4K minimum working impedance is 1 ohm for a single amplifier or 2 ohm for two amplifiers in a strapped configuration. Impedance lower than 1 ohm or 2 ohm strapped can damage the amplifiers.

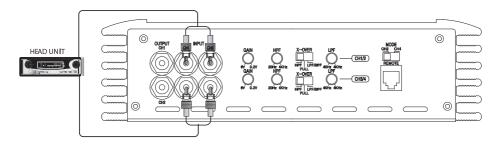
STRAPPED INPUT & SPEAKER CONNECION



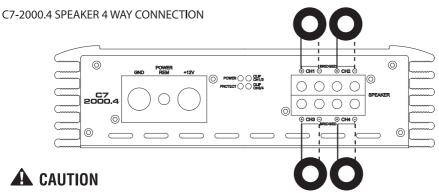
A CAUTION

C7-2K & C7-4K Operation Voltage: 9V to 16V C7-2K & C7-4K Strapped Minimum Impedance is 2 Ohms

C7-2000.4 INPUT CONNECTION



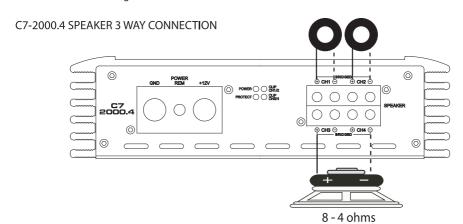
C7-2000.4 SPEAKER CONNECTIONS



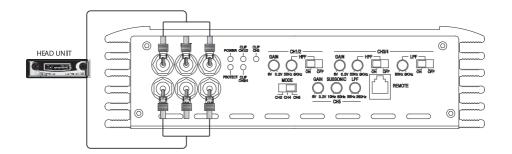
C7-2000.4 Operation Voltage: 9V to 16V

C7-2000.4 Minimum Impedance is 2 Ohm Stereo or 4 Ohm Mono

C7-2000.4 Fuse Rating is 150A

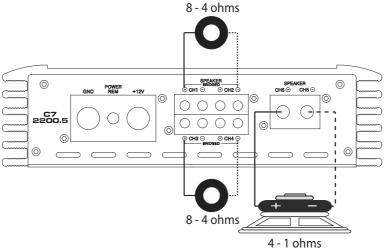


C7-2200.5 INPUT CONNECTION



C7-2200.5 SPEAKER CONNECTIONS

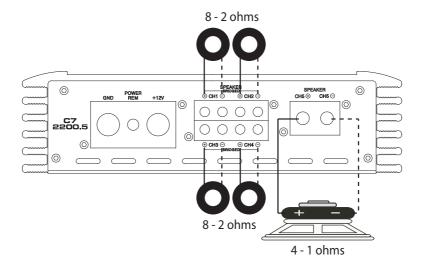
C7-2200.5 SPEAKER 3 WAYS CONNECTION



⚠ Caution !!

C7-2200.5 operation voltage : 9V to 16V C7-2200.5 minimum impedance is 20hm stereo or 40hm mono for CH1 \sim CH4 and 10hm mono for CH5 C7-2200.5 fuse rate is 200A

C7-2200.5 SPEAKER 5 WAYS CONNECTION



TROUBLE SHOOTING

C7-2K, C7-4K, C7-2000.4 & C7-2200.5 amplifiers have protection features to prevent any damages from misuse or faulty conditions. If C7-2K, C7-4K, C7-2000.4 & C7-2200.5 amplifiers sense excessive heat, short circuited speaker, DC offset or voltage below 9 volts or over 16 volts the protection indicator will light and the system will be turned off. In order to check the problem, you should turn all levels down and all power off and carefully check the installation for wiring mistakes or short. If C7-2K, C7-4K, C7-2000.4 & C7-2200.5 shut down due to excessive heat, they will remain in thermal protection until amplifier reaches normal operation temperature.

Before removing your amplifiers, refer to the list below and follow the suggested proceedures.

NO OUTPUT

- @ Check remote turn-on voltage at amplifier and headunit, when remote turn-on voltage is low or no turn-on voltage, there is no sound.
- @Check fuses at the battery side or external fuses and all wire connections
- @ Check RCA Input is properly connected.

AMPLIFIER SHUT DOWN (PROTECTION)

- @ Please check POWER, GND and REMOTE wire connection and other wires properly connected.
- @ If the amplifier sees over 4 volts DC offset the amplifier will go ino protect mode. Please check whether amplifier works after removing RCA-Input. if the amplifier works, then check DC offset by checking RCA-Input when DC offset is over 4 volts at input, check by replacing the source unit.
- @ Amplifier goes into the thermal protection when amplifier is over-heated. Amplifier will turn back on after it cools down. Please install amplifier in a better ventilated area.
- @ C7-2K & C7-4K have a minimum working impedance of 10hm as single unit. Strapped connection is 20hm.

C7-2000.4 has a minimum working impedance of 20hm stereo or 40hm bridged.

- C7-2200.5 has a minimum working impedace of 20hm stereo or 40hm bridged for H1 ~ CH4 and 10hm for CH5.
- @ C7-2K, C7-4K, C7-2000.4 & C7-2200.5 voltage protection will activate when voltage goes below 9 volts or over 16 volts.
- @ Make sure Chassis and Remote use same GROUND.

DISTORTION & NOISE

- @ Please re-adjust amplifier input level which is printed on endplate.
- @ Make sure good ground contact of amplifier or source unit.
- @ Use sufficientrly shielded RCA interconnects and good RCA routing.
- @ Check all ground connections of all other audio equipment.

POOR BASS RESPONSE

@ Check speaker wiring and reverse polarity.



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