


MASSIVE[®]

Built tough for sound competition

CK5^{STAGE}

CK6^{STAGE}

CK6x9^{STAGE}



Massive Audio Inc.
2261 S. Atlantic Blvd.
City of Commerce, CA 90040 U.S.A
www.massiveaudio.com

©2005 Massive Audio Inc.
Printed in the U.S.A.

V.1.2

®



WARRANTY

- Massive Audio, Inc. warrants all manufactured speaker products to be free from defect in material and workmanship for a period not to exceed **ONE YEARS*** from the date of purchase when installed by an authorized "Massive Audio" dealer. Units that are not installed by an authorized "Massive Audio" dealer maintain a warranty not to exceed 1 year from the original purchase date by original purchaser.
- **Products that display abuse such as burnt Voice Coils may not be covered under warranty.**
- "Massive Audio's" obligation under this warranty is limited to repairing or replacing, at its own discretion, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in anyway. This warranty applies only to the original purchaser who must have properly registered the product within 10 days of purchase.

Except as provided herein, Massive Audio Inc. makes no warranties or representations, express or implied, including any warranty implied by law, whether for merchantability or fitness for a particular purpose and shall be effective only for the period that this express warranty is effective. SEE THE WARRANTY REGISTRATION CARD FOR ADDITIONAL INFORMATION.

INTRODUCTION

Congratulations!

And thank you for purchasing "Massive Audio" Competition Series (CK) Stage **3** Component kits for your car audio system. You now own a component kit speaker system of uncompromising design and engineering incorporating the latest advances in technology. This handcrafted component speaker system is designed to deliver the demands of serious sound competitors. You will soon discover that Competition Series component kits display a fine balance between high quality, performance and reliability; all proven qualities of "Massive Audio" products.

"Massive Audio" Component kits are the result of American research and development using only the highest quality components and quality control standards. In order to provide you with many years of listening pleasure, we recommend you to have your new component kits installed by an Authorized "Massive Audio Dealer". This will ensure the proper installation of your product, and will also increase the length of your warranty to **ONE YEARS**.

(Please see the warranty section for more details.)

Please take a moment to thoroughly read this manual to ensure that you get the maximum benefit from this new addition to your car audio system. When installed properly, this unit will provide years of trouble-free performance.

Should your product need service or replacement, please record the following information, which will help protect your investment.

Model#: _____

Dealer's Name: _____

Date of Purchase: _____

Installation Shop and Date: _____

DESIGN FEATURES

Machined cast aluminum basket with heavy powder coating

Shallow mount Cast aluminum basket to eliminate flexing.
Heavy powder coating to damp the basket and add rigidity, further minimizing vibration and ringing noises.

Y40 High flux ferrite magnets

High-energy Y40 magnets assure sufficient magnetic force needed for high sensitivity and accurate sound reproduction.

Versatile tweeter mounting options

For maximum versatility and ease of installation tweeters can be installed as surface, flush or angle mount. Tweeter bracket allows mounting as co-axial.

35mm voice coil

Over sized winding to maximize power handling.
Black Electro-coated magnetic plates to draw heat from voice coil.

Woven carbon fiber cone with butyl rubber surround

Increased rigidity and lightness to reproduce accurate notes.

28 mm Silk tweeters

Silk Diaphragm with ferro fluid cooled voice coil for smooth precise notes and high output.

Nomax spider

High quality Nomax spider to ensure maximum linearity and accurate sound reproduction.

Competition grade 18 dB crossover

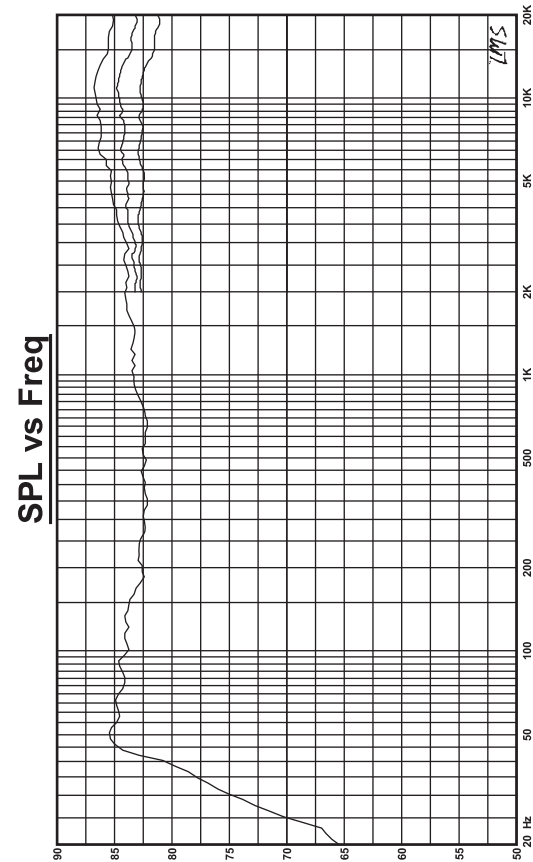
High-grade audiophile component with poly switch and Sk2 & Sk3 light bulbs for auto attenuation which protects the components at high SPL.

Briefcase style gift box packaging

For enhanced product protection.

Power handling

CK 6x9 Stage 3	320 Watts Max / 150 Watts RMS
CK6 Stage 3	280 Watts Max / 130 Watts RMS
CK5 Stage 3	250 Watts Max / 120 Watts RMS



CK 6x9
stage 3

PARAMETERS

Fsa (Hz)	41.2
Re (Ohms)	3.2
BWs (Hz)	18
Qms	2.914
Qes	1.233
Qts	0.866
Xmax (mm)	6
V.C.Diameter (mm)	35.55
V.C.Layer	2
RMS Power (W)	150 (System)
Max power (W)	320 (System)
Zmaxs (Ohms)	16.6
Vas (Liters)	27.51
Cms (m/N)	3.94E-04
Mmd (g)	21.9
Mms (g)	1.9
BL (Tesla/m)	4.579
Flux density in gap (Gauss)	9110
Eta (%)	0.269%
Sensitivity@ 2.83V/1m (dB)	92.6
Sensitivity@ 1W/1m (dB)	89.4
Driver Diameter (m)	0.168
Area (m^2)	2.17E-02
Frame diameter (in.)	6X9
Mounting diameter (in.)	6X8.75"
Mounting depth (in.)	2.95"

Polarity: DC current applied to the + and - terminals as indicated the cone will move forward.

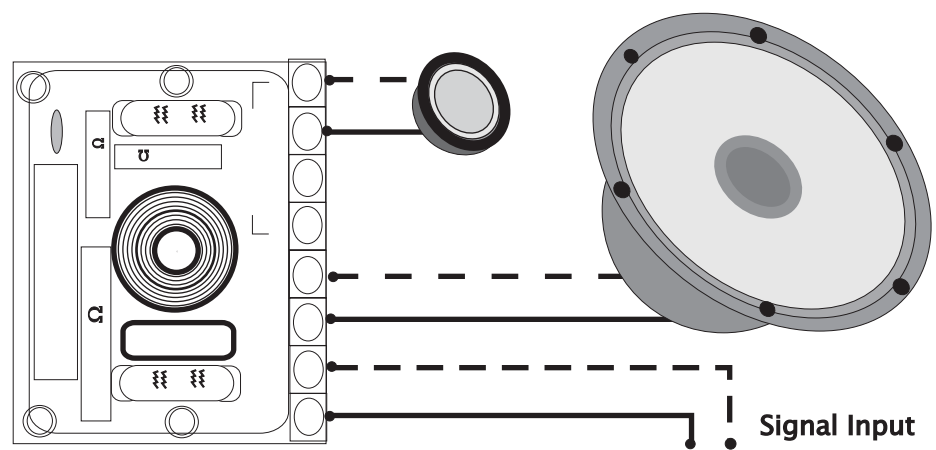
Heat Resistance: 70'C +/- 2'C @ 16 hrs
Humidity Resistance: 90% 40'C +/- 2'C @ 96hrs

INCLUDED IN THIS KIT

- Pair of cast basket carbon fiber cone speakers
- Pair of 28mm Silk tweeters
- Pair of speaker grills
- Pair of coaxial mount brackets for tweeter
- Tweeter housing for flush, angle and surface mounts
- 2 packs of mounting hardware
- 2 pairs of speaker wires



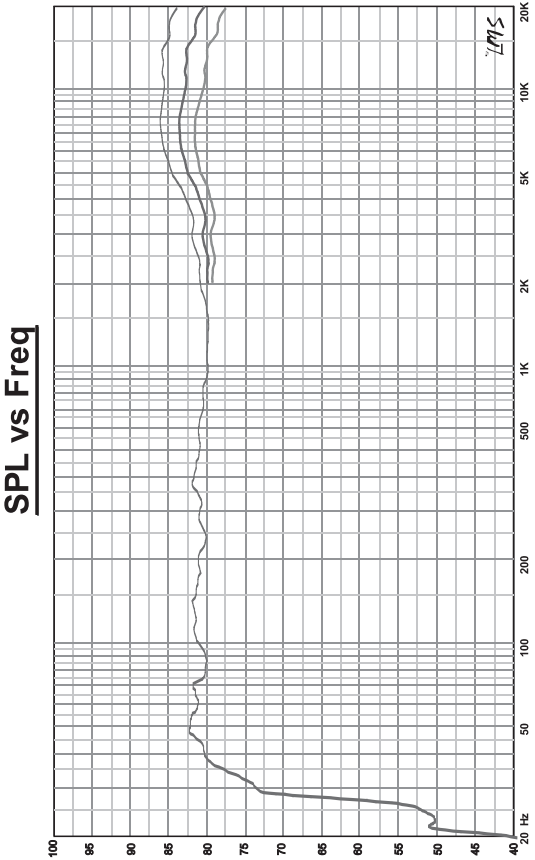
WIRING CONFIGURATION



Full range signal when used without subwoofer
55Hz* high pass signal when CK6 is used in conjunction with a subwoofer
65Hz* High pass signal when CK5 is used in conjunction with a subwoofer
50Hz* High pass signal when CK69 is used in conjunction with a subwoofer

*Full range amplifier should be set to hi-pass mode at required frequency

Tweeter diameter: 28mm
Tweeter diaphragm: Silk
Magnet: Neodymium
Voice coils: High temperature voice coil with ferro fluid cooling.
Included mounting option (opposite page)
Flush, angle, surface and Coaxial
Coaxial mounting bracet can be used as a free standing upright fixture for the tweeters.



PARAMETERS

Fsa (Hz)	40.7
Re (Ohms)	3.6
BWs (Hz)	23.0
Qms	8.06
Qes	0.84
Qts	0.76
Xmax (mm)	8.9
V.C.Diameter (mm)	35.55
V.C.Layer	2
RMS Power (W)	130 (System)
Max power (W)	280 (System)
Zmaxs (Ohms)	38.2
Vas (Liters)	11.7
Cms (m/N)	4.71E-04
Mmd (g)	15.7
Mms (g)	0.879
BL (Tesla/m)	5.05
Flux density in gap (Gauss)	8920
Eta (%)	0.246
Sensitivity 2.83V/1m (dB)	93.1
Sensitivity 1W/1m (dB)	89.9
Driver Diameter (m)	0.130
Area (m^2)	1.33E-02
Frame diameter (in.)	6.5
Mounting diameter (in.)	5.75
Mounting depth (in.)	2.75

Polarity: DC current applied to the + and - terminals as indicated the cone will move forward.

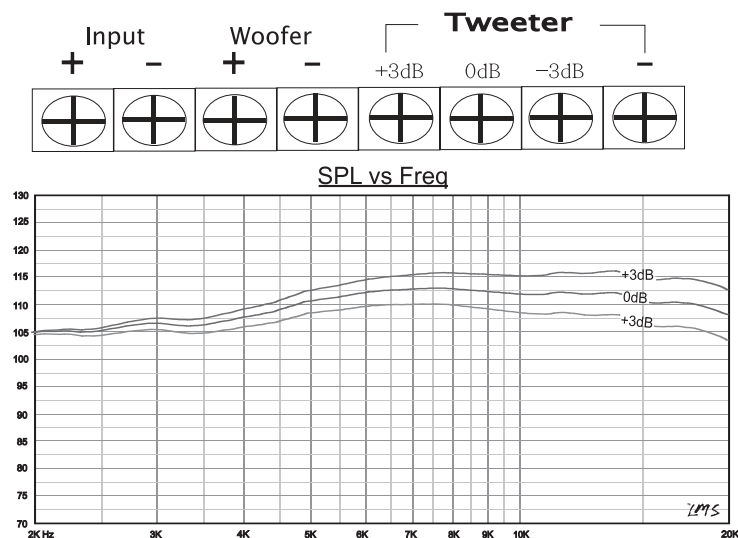
Heat Resistance: 70°C +/- 2°C @ 16 hrs

Humidity Resistance: 90% 40°C +/- 2°C @ 96hrs

TWEETER ATTENUATION:

You can use this option to attenuate the hi frequency. The positive input to the tweeter can be connected to -3dB / 0dB / +3dB to make the tweeter more bright or less bright

Please see the chart below



TWEETER MOUNTING OPTIONS:



Angle mount

Surface mount

Flush mount



PARAMETERS

Fsa (Hz)	51.4
Re (Ohms)	3.6
BWs (Hz)	29.2
Qms	7.55
Qes	0.84
Qts	0.75
Xmax (mm)	8.8
V.C.Diameter (mm)	35.55
V.C.Layer	2
RMS Power (W)	120 (System)
Max power (W)	250 (System)
Zmaxs (Ohms)	36
Vas (Liters)	4.61
Cms (m/N)	4.21E-04
Mmd (g)	11.9
Mms (g)	0.477
BL (Tesla/m)	4.82
Flux density in gap (Gauss)	8920
Eta (%)	0.179
Sensitivity 2.83V/1m (dB)	92
Sensitivity 1W/1m (dB)	88.5
Driver Diameter (m)	0.106
Area (m^2)	8.83E-03
Frame diameter (in.)	5.125
Mounting diameter (in.)	4.625
Mounting depth (in.)	2.5

Polarity: DC current applied to the + and - terminals as indicated the cone will move forward.

Heat Resistance: 70'C +/- 2'C @ 16 hrs

Humidity Resistance: 90% 40'C +/- 2'C @ 96hrs

