

Mark bass

BASS at its **BEST**

www.markbass.it

OWNER'S MANUAL

**LITTLE MARK III ~ LITTLE MARK 250 ~ LITTLE MARK 800 ~
COMBO HEAD II / LITTLE MARK NINJA / LITTLE MARK TUBE ~
LITTLE MARK TUBE 800**

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions;
- 2) Keep these instructions;
- 3) Heed all warnings;
- 4) Follow all instructions;
- 5) Do not use this apparatus near water;
- 6) Clean only with dry cloth;
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions;
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat;
- 9) Do not defeat the safety purpose of the polarized or ground-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet;
- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus
- 11) Only use attachments/accessories specified by the manufacturer;
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from the tip-over (and Fig 21 DU Tipping Cart Symbol).
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time;
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped;
- 15) "WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS".
- 16) TO COMPLETELY DISCONNECT THIS APPARATUS FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE;
- 17) THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY ACCESSIBLE.
- 18) In case of voltage selector make sure the switch on the rear panel is on the correct voltage before connecting it to the AC power, and the fuse is the right value for that voltage (This selector is not available on the 100V version). Please change the voltage/fuse values label located near the voltage selector matching the voltage/fuse values when you need to change the voltage of the apparatus.
- 19) "WARNING: THIS APPARATUS MUST BE SECURELY ATTACHED TO THE FLOOR OR WALL IN ACCORDANCE WITH INSTALLATION INSTRUCTION. TIPPING, SHAKING, OR ROCKING THE MACHINE MAY CAUSE INJURY OR DEATH."
- 20) "CAUTION: THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO"



MORE INFORMATION

For warranty and service information, please contact your local Markbass distributor (contact information available at www.markbass.it). For more technical information, please visit us at www.markbass.it and fill out the form on the Support page. We hope you enjoy your power amp and use it to make great music!



"The Lightning Flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of shock to persons."



"The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product."



"To be used only with altitude not exceeding 2000 m"



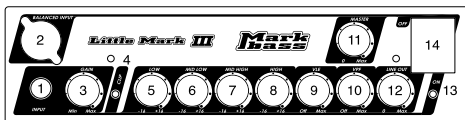
"To be used only where the climate is not tropical"



PRECAUTIONS D'EMPLOI

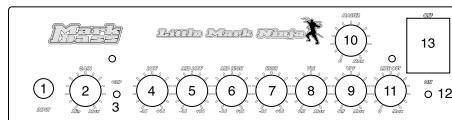
- 1) Lire ces instructions;
- 2) Conserver ces instructions;
- 3) Suivre tous les conseils d'utilisations;
- 4) Suivre toutes les instructions;
- 5) Ne pas utiliser cet appareil au bord de l'eau;
- 6) Nettoyer uniquement avec un chiffon humide;
- 7) Ne pas bloquer le système de ventilation. Installer conformément aux instructions du fabricant;
- 8) Ne pas installer l'appareil près d'une source de chaleur tel qu'un radiateur, un fourneau, ou bien un autre appareil qui produit de la chaleur;
- 9) Ne pas modifier le système de sécurité de la fiche polarisée ou de la fiche pour les prises de terre. Une fiche polarisée a deux broches, l'une étant plus distante de l'autre. Une fiche pour prise de terre a deux broches et une pointe pour la masse. La broche plus distante et la pointe pour la masse ont été installées pour votre sécurité. Si la fiche fournie de rentre pas dans votre prise de courant consulter un électricien pour la substitution;
- 10) Protéger le cordon d'alimentation afin qu'il ne soit pas piétiné ou écrasé tout particulièrement au niveau des fiches, des prises de courant femelles, et des parties qui sortent de l'appareil;
- 11) Utiliser uniquement les accessoires recommandés par le fabricant;
- 12) Utiliser uniquement avec le chariot, le socle, le trépied, le support ou la table spécifiés par le fabricant ou vendu avec l'appareil. Lorsque vous utilisez un chariot, soyez prudent lorsque vous déplacez l'ensemble chariot / appareil pour éviter toute blessure du renversement (et la figure 21 DU Tipping panier Symbol).
- 13) Ne pas branché l'appareil en cas d'orage accompagné d'éclairs. Le débrancher en cas de non utilisation prolongée;
- 14) S'adresser à un service assistance agréé si l'appareil a subi des dommages, si le cordon d'alimentation ou la fiche a été endommagé, si un liquide a été renversé sur l'appareil ou bien si un objet est tombé dans l'appareil, si ce dernier a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas correctement ou s'il est tombé;
- 15) "AVERTISSANT: POUR RÉDUIRE LE RISQUE DU FEU OU DE DÉCHARGE ÉLECTRIQUE, N'EXPOSEZ PAS CET APPAREIL À LA PLUIE OU L'HUMIDITÉ ET LES OBJETS REMPLIS DE LIQUIDES; TELS QUE DES VASES, NE DEVRAIENT PAS ÊTRE PLACÉS SUR CET APPAREIL";
- 16) POUR DÉCONNECTER COMPLETEMENT L'APPAREIL DU RESEAU D'ALIMENTATION, DÉCONNECTER LE CORDON D'ALIMENTATION DE LA PRISE MURALE;
- 17) LA PRISE DU RESEAU D'ALIMENTATION DOIT DEMEURER AISEMENT ACCESSIBLE.
- 18) En cas de sélecteur de tension s'assurer que l'interrupteur sur le panneau arrière est sur la bonne tension avant de le raccorder à l'alimentation secteur et le fusible est la bonne valeur pour que la tension (Ce sélecteur n'est pas disponible sur la version 100V). S'il vous plaît changer la tension / valeurs de fusibles étiquette située près du sélecteur de tension correspondant aux valeurs / fusibles de tension lorsque vous avez besoin de changer la tension de l'appareil.
- 19) "AVERTISSEMENT: CET APPAREIL DOIT ÊTRE ASSUJETTI AU PLANCHER OU AU MUR CONFORMÉMENT AUX INSTRUCTIONS D'INSTALLATION. LE FAIT DE L'INCLINER, DE LE BALANÇER OU DE L'AGITER PEUT CAUSER DES BLESSURES OU LA MORT."
- 20) "ATTENTION: CES INSTRUCTIONS D'ENTRETIEN SONT DESTINÉES PAR PERSONNEL QUALIFIÉ SEULEMENT . POUR RÉDUIRE LE RISQUE DE CHOC ÉLECTRIQUE NE PAS EFFECTUER TOUT ENTRETIEN AUTRE QUE CELLES CONTENUES DANS TEH MODE D'EMPLOI SAUF SI VOUS ÊTES QUALIFIÉ POUR LE FAIRE"

**2. LITTLE MARK III / LITTLE MARK 250 /
LITTLE MARK 800 / COMBO HEAD II FRONT PANEL**



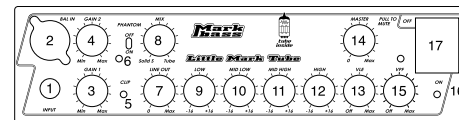
- 1 UNBALANCED 1/4" JACK INPUT
- 2 BALANCED XLR INPUT
- 3 SOLID STATE GAIN
- 4 CLIP LED
- 5 LOW EQUALIZATION CONTROL KNOB
- 6 MID LOW EQUALIZATION CONTROL KNOB
- 7 MID HIGH EQUALIZATION CONTROL KNOB
- 8 HIGH EQUALIZATION CONTROL KNOB
- 9 VLE FILTER LEVEL CONTROL KNOB
- 10 VPF FILTER LEVEL CONTROL KNOB
- 11 MASTER VOLUME LEVEL KNOB
- 12 LINE OUT LEVEL KNOB
- 13 POWER ON LED
- 14 MAIN ON/OFF SWITCH

3. LITTLE MARK NINJA FRONT PANEL



- 1 UNBALANCED 1/4" JACK INPUT
- 2 1/4" JACK INPUT GAIN
- 3 CLIP LED
- 4 LOW EQUALIZATION CONTROL KNOB
- 5 MID LOW EQUALIZATION CONTROL KNOB
- 6 MID HIGH EQUALIZATION CONTROL KNOB
- 7 HIGH EQUALIZATION CONTROL KNOB
- 8 VLE FILTER LEVEL CONTROL KNOB
- 9 VPF FILTER LEVEL CONTROL KNOB
- 10 MASTER VOLUME LEVEL KNOB
- 11 LINE OUT LEVEL KNOB
- 12 POWER ON LED
- 13 MAIN ON/OFF SWITCH

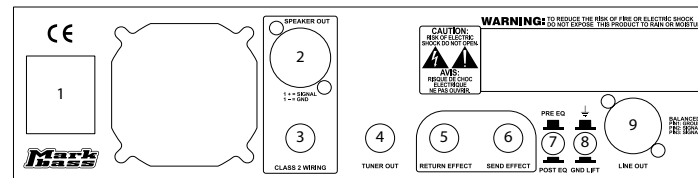
4. LITTLE MARK TUBE / LITTLE MARK TUBE 800 FRONT PANEL



- 1 UNBALANCED 1/4" JACK INPUT
- 2 BALANCED COMBO XLR / 1/4" JACK INPUT
- 3 1/4" JACK INPUT GAIN
- 4 COMBO XLR / 1/4" JACK GAIN
- 5 CLIP LED
- 6 PHANTOM POWER 48V ON/OFF SWITCH (ON BALANCED COMBO XLR / 1/4" JACK INPUT)
- 7 LINE OUT LEVEL KNOB
- 8 MIX LEVEL CONTROL KNOB
- 9 LOW EQUALIZATION CONTROL KNOB
- 10 MID LOW EQUALIZATION CONTROL KNOB
- 11 MID HIGH EQUALIZATION CONTROL KNOB
- 12 HIGH EQUALIZATION CONTROL KNOB
- 13 VLE FILTER LEVEL CONTROL KNOB
- 14 MASTER VOLUME LEVEL KNOB (PULL OUT TO MUTE)
- 15 VPF FILTER LEVEL CONTROL KNOB
- 16 POWER ON LED
- 17 MAIN ON/OFF SWITCH

**5. LITTLE MARK III / LITTLE MARK 250 / LITTLE MARK 800 / COMBO HEAD II / LITTLE MARK TUBE / LITTLE MARK TUBE 800 /
LITTLE MARK NINJA REAR PANEL**

- 1 AC POWER SOCKET
- 2 SPEAKER OUT SPEAKON / 1/4" COMBO JACK (LITTLE MARK NINJA - HEAD VERSION: SPEAKER OUT SPEAKON)
- 3 SPEAKER OUT 1/4" JACK (NOT PRESENT ON LITTLE MARK NINJA - HEAD VERSION)
- 4 TUNER OUT 1/4" JACK
- 5 RETURN EFFECT 1/4" JACK
- 6 SEND EFFECT 1/4" JACK
- 7 PRE/POST EQUALIZATION CONTROL SWITCH
- 8 GROUND LIFT CONTROL SWITCH
- 9 LINE OUT XLR



6. LITTLE MARK III / LITTLE MARK 250 / LITTLE MARK 800 / COMBO HEAD II TECHNICAL DETAILS

INPUTS

INPUT	impedance: 500 Kohm, max. voltage: 15 Vpp
BALANCED	impedance: 100 Kohm, max. voltage: 25 Vpp
RETURN EFFECT	impedance: 33 Kohm, max. voltage: 10 Vpp

CONTROLS

GAIN	-60 dB to +23 dB range
LINE OUT	level control on front panel
PRE/POST EQ (for line out)	switch on rear panel
GROUND LIFT	switch on rear panel
MASTER VOLUME	

EQUALIZATION

LOW	center frequency 40 Hz; level: ±16 dB
MID LOW	center frequency 360 Hz; level: ±16 dB
MID HIGH	center frequency 800 Hz; level: ±16 dB
HIGH	center frequency 10 kHz; level: ±16 dB
VLE (Vintage Loudspeaker Emulator)	max cut range: 250 Hz – 20 kHz
VPF (Variable Pre-shape Filter)	center frequency 380 Hz (cut)

OUTPUTS

SEND EFFECTS	unbalanced, max. voltage 20 Vpp
TUNER OUT	unbalanced, max. voltage 2 Vpp
LINE OUT	balanced XLR, max. voltage 20 Vpp
SPEAKER OUT	speakon/1/4" combo, 1/4"

OTHER

HEIGHT	2 rack units (3.16 in. / 80.3 mm)	
WIDTH	10.87 in. / 27.6 cm (19 in. / 48.3 cm with rack ears)	
DEPTH	10.04 in. / 25.5 cm	
WEIGHT	6.39 lbs / 2.9 kg	(LITTLE MARK III)
	6.15 lbs / 2.79 kg	(LITTLE MARK 800)
	5.73 lbs / 2.6 kg	(LITTLE MARK 250)

OUTPUT POWER

300W RMS @ 8 ohm, 500W RMS @ 4 ohm
(LITTLE MARK III, COMBO HEAD II)
500W RMS @ 8 ohm, 800W RMS @ 4 ohm
(LITTLE MARK 800)
150W RMS @ 8 ohm, 250W RMS @ 4 ohm
(LITTLE MARK 250)

POWER REQUIREMENT

100V; 120V; 230V; 240V 50/60Hz
(Voltage is factory preset according to region of sale).

Markbass amps/combos are manufactured to be sold and used in the country of purchase, and are factory preset to that country's voltage.

Due to homologation issues, the voltage may not be changed.

FUSE

LITTLE MARK III, COMBO HEAD II:

EUROPE	4 A 250V T 5x20
AUSTRALIA/UK	4 A 250V T 5x20
USA/CANADA	8 A 250V T 5x20
JAPAN	10 A 250V T 5x20

LITTLE MARK 800:

EUROPE	6.3 A 250V T 5x20
AUSTRALIA/UK	6.3 A 250V T 5x20
USA/CANADA	8 A 250V T 5x20
JAPAN	10 A 250V T 5x20

LITTLE MARK 250:

EUROPE	3.15 A 250V T 5x20
AUSTRALIA/UK	3.15 A 250V T 5x20
USA/CANADA	6.3 A 250V T 5x20
JAPAN	6.3 A 250V T 5x20

7. COMBO HEAD II SERIES: TECHNICAL DETAILS

COMBO HEAD II SERIES	CMD 102P	CMD 103H	MINI CMD 121P	CMD 121H	MINI CMD 151P	CMD 151P JEFF BERLIN	CMD JB PLAYER SCHOOL
SPEAKER SIZE (INCHES)	2X10"	3X10"	1X12"	1X12"	1X15"	1X15"	1X15"
TWEETER	PIEZO TWEETER	1" HF COMP. DRIVER	PIEZO TWEETER	1" HF COMP. DRIVER	PIEZO TWEETER	NONE	NONE
CROSSOVER FREQUENCY	3.5 KHZ	3.5 KHZ	3.5 KHZ	3.5 KHZ	3.5 KHZ	NONE	NONE
CAB POWER HANDLING (AES STANDARD)	400W RMS	600W RMS	400W RMS	400W RMS	400W RMS	400W RMS	250W RMS
FREQUENCY RESPONSE	40HZ TO 18KHZ	40HZ TO 20KHZ	45HZ TO 18KHZ	45HZ TO 20KHZ	40HZ TO 18KHZ	40HZ TO 5KHZ	45HZ TO 5KHZ
CABINET SENSITIVITY (DB SPL)	101	103	99	99	100	100	99
CABINET IMPEDANCE	8 Ω	6 Ω	8 Ω	8 Ω	8 Ω	8 Ω	8 Ω
REFLEX	FRONT	REAR	REAR	REAR	REAR	REAR	REAR
WEIGHT KG.	20	28.7	13.3	17.9	18.5	21.2	18.5
WEIGHT LBS.	44.09	63.27	29.32	39.46	40.79	46.74	40.79
WIDTH MM.	594	594	390	390	464	464	464
WIDHT INCHES	23.39	23.339	15.35	15.35	18.27	18.27	18.27
HEIGHT MM.	479	699	432	599	464	557	464
HEIGHT INCHES	18.86	27.52	17.01	23.58	18.27	21.93	18.27
DEPTH MM.	475	480	357	464	480	480	480
DEPTH INCHES	18.70	18.90	14.06	18.27	18.90	19.90	18.90
PREAMP	SOLID-STATE	SOLID-STATE	SOLID-STATE	SOLID-STATE	SOLID-STATE	SOLID-STATE	SOLID-STATE
POWER AMP	300W @ 8 Ω / 500W @ 4 Ω	300W @ 8 Ω / 500W @ 4 Ω	300W @ 8 Ω / 500W @ 4 Ω	300W @ 8 Ω / 500W @ 4 Ω	300W @ 8 Ω / 500W @ 4 Ω	300W @ 8 Ω / 500W @ 4 Ω	150W @ 8 Ω / 250W @ 4 Ω
POWER SUPPLY	ALL MODELS ARE EQUIPPED WITH CUSTOM-DESIGNED MARKBASS DIGITAL POWER SUPPLIES						

8. LITTLE MARK NINJA TECHNICAL DETAILS

INPUT

INPUT impedance: 500 Kohm, max. voltage: 15 Vpp
RETURN EFFECT impedance: 33 Kohm, max. voltage: 10 Vpp

CONTROLS

GAIN -60 dB to +23 dB range
LINE OUT level control on front panel
PRE/POST EQ (for line out) switch on rear panel
GROUND LIFT switch on rear panel
MASTER VOLUME

EQUALIZATION

LOW center frequency 40 Hz; level: ± 16 dB
MID LOW center frequency 360 Hz; level: ± 16 dB
MID HIGH center frequency 800 Hz; level: ± 16 dB
HIGH center frequency 10 kHz; level: ± 16 dB
VLE (Vintage Loudspeaker Emulator) max cut range: 250 Hz – 20 kHz
VPF (Variable Pre-shape Filter) center frequency 380 Hz (cut)

OUTPUTS

SEND EFFECTS unbalanced, max. voltage 20 Vpp
TUNER OUT unbalanced, max. voltage 2 Vpp
LINE OUT balanced XLR, max. voltage 20 Vpp
SPEAKER OUT speakon

OTHER

HEIGHT 2 rack units (3.16 in. / 80.3 mm)
WIDTH 10.87 in. / 27.6 cm (19 in. / 48.3 cm with rack ears)
DEPTH 10.04 in. / 25.5 cm
WEIGHT 6.39 lbs / 2.9 kg

OUTPUT POWER 500W RMS @ 8 ohm, 1000W RMS @ 4 ohm
POWER REQUIREMENT 100V; 120V; 230V; 240V 50/60Hz
(Voltage is factory preset according to region of sale).

Markbass amps/combos are manufactured to be sold and used in the country of purchase, and are factory preset to that country's voltage.

Due to homologation issues, the voltage may not be changed.

FUSE

EUROPE 8 A 250V T 5x20
AUSTRALIA/UK 8 A 250V T 5x20
USA/CANADA 10 A 250V T 5x20
JAPAN 12 A 250V T 5x20

9. LITTLE MARK NINJA COMBO SERIES: TECHNICAL DETAILS

LITTLE MARK NINJA COMBO SERIES	NINJA 102 250	NINJA 102 500	FUSE
SPEAKER SIZE (INCHES)	2X10"	2X10"	NINJA 102 250:
TWEETER	PIEZO TWEETER	PIEZO TWEETER	EUROPE
CROSSOVER FREQUENCY	3.5 KHZ	3.5 KHZ	AUSTRALIA/UK
CAB POWER HANDLING (AES STANDARD)	400W RMS	400W RMS	USA/CANADA
			JAPAN
			3.15 A 250V T 5x20
			3.15 A 250V T 5x20
			6.3 A 250V T 5x20
			8 A 250V T 5x20
FREQUENCY RESPONSE	40HZ TO 18KHZ	40HZ TO 18KHZ	NINJA 102 500:
CABINET SENSITIVITY (DB SPL)	98	101	EUROPE
CABINET IMPEDANCE	8 Ω	8 Ω	AUSTRALIA/UK
REFLEX	REAR	REAR	USA/CANADA
			JAPAN
			4 A 250V T 5x20
			4 A 250V T 5x20
			8 A 250V T 5x20
			10 A 250V T 5x20
WEIGHT KG.	16.4	16.4	
WEIGHT LBS.	36.16	36.16	
WIDTH MM.	330	330	
WIDHT INCHES	12.99	12.99	
HEIGHT MM.	696	696	
HEIGHT INCHES	27.40	27.40	
DEPTH MM.	433	433	
DEPTH INCHES	17.05	17.05	
PREAMP	SOLID-STATE	SOLID-STATE	
POWER AMP	150W @ 8 Ω / 250W @ 4 Ω	300W @ 8 Ω / 500W @ 4 Ω	

POWER SUPPLY ALL MODELS ARE EQUIPPED WITH CUSTOM-DESIGNED MARKBASS DIGITAL POWER SUPPLIES

10. LITTLE MARK TUBE / LITTLE MARK TUBE 800 TECHNICAL DETAILS

INPUTS

INPUT 1	impedance: 500 Kohm, max. voltage: 15 Vpp
INPUT 2	balanced XLR, impedance: 500 Kohm, max. voltage: 15 Vpp
RETURN EFFECT	impedance: 33 Kohm, max. voltage: 10 Vpp

CONTROLS

GAIN 1	-60 dB to +23 dB range
GAIN 2	-60 dB to +23 dB range
LINE OUT	level control on front panel
PRE/POST EQ (for line out)	switch on rear panel
GROUND LIFT	switch on rear panel
MUTE	pulling out the Master knob
MASTER VOLUME	

EQUALIZATION

LOW	center frequency: 40 Hz; level: ± 16 dB
MID LOW	center frequency: 360 Hz; level: ± 16 dB
MID HIGH	center frequency: 800 Hz; level: ± 16 dB
HIGH	center frequency: 10 kHz; level: ± 16 dB
VLE (Vintage Loudspeaker Emulator)	max. range cut: 250 Hz – 20 kHz
VPF (Variable Pre-shape Filter)	center frequency 380 Hz (cut)

OUTPUTS

SEND EFFECT	unbalanced, max. voltage 20 Vpp (pre-EQ)
TUNER OUT	unbalanced, max. voltage 2 Vpp
LINE OUT	balanced XLR, max. voltage 20 Vpp
SPEAKER OUT	speakon/1/4" combo, 1/4"

OTHER

HEIGHT	2 rack units (3.16 in. / 80.3 mm)
WIDTH	10.87 in. / 27.6 cm (19 in. / 48.3 cm with rack ears)
DEPTH	10.04 in. / 25.5 cm
WEIGHT	6.55 lbs / 2.97 kg (LITTLE MARK TUBE) 6.31 lbs / 2.86 kg (LITTLE MARK TUBE 800)

OUTPUT POWER

300W RMS @ 8 ohm, 500W RMS @ 4 ohm
(LITTLE MARK TUBE)
450W RMS @ 8 ohm, 750W RMS @ 4 ohm
(LITTLE MARK TUBE 800)

POWER REQUIREMENT

100V; 120V; 230V; 240V 50/60Hz
(Voltage is factory preset according to region of sale).

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Due to homologation issues, the voltage may not be changed.

FUSE

LITTLE MARK TUBE:

EUROPE	4 A 250V T 5x20
AUSTRALIA/UK	4 A 250V T 5x20
USA/CANADA	8 A 250V T 5x20
JAPAN	10 A 250V T 5x20

LITTLE MARK TUBE 800:

EUROPE	6.3 A 250V T 5x20
AUSTRALIA/UK	6.3 A 250V T 5x20
USA/CANADA	8 A 250V T 5x20
JAPAN	10 A 250V T 5x20

11. TROUBLESHOOTING TIPS

THERMAL PROTECTION

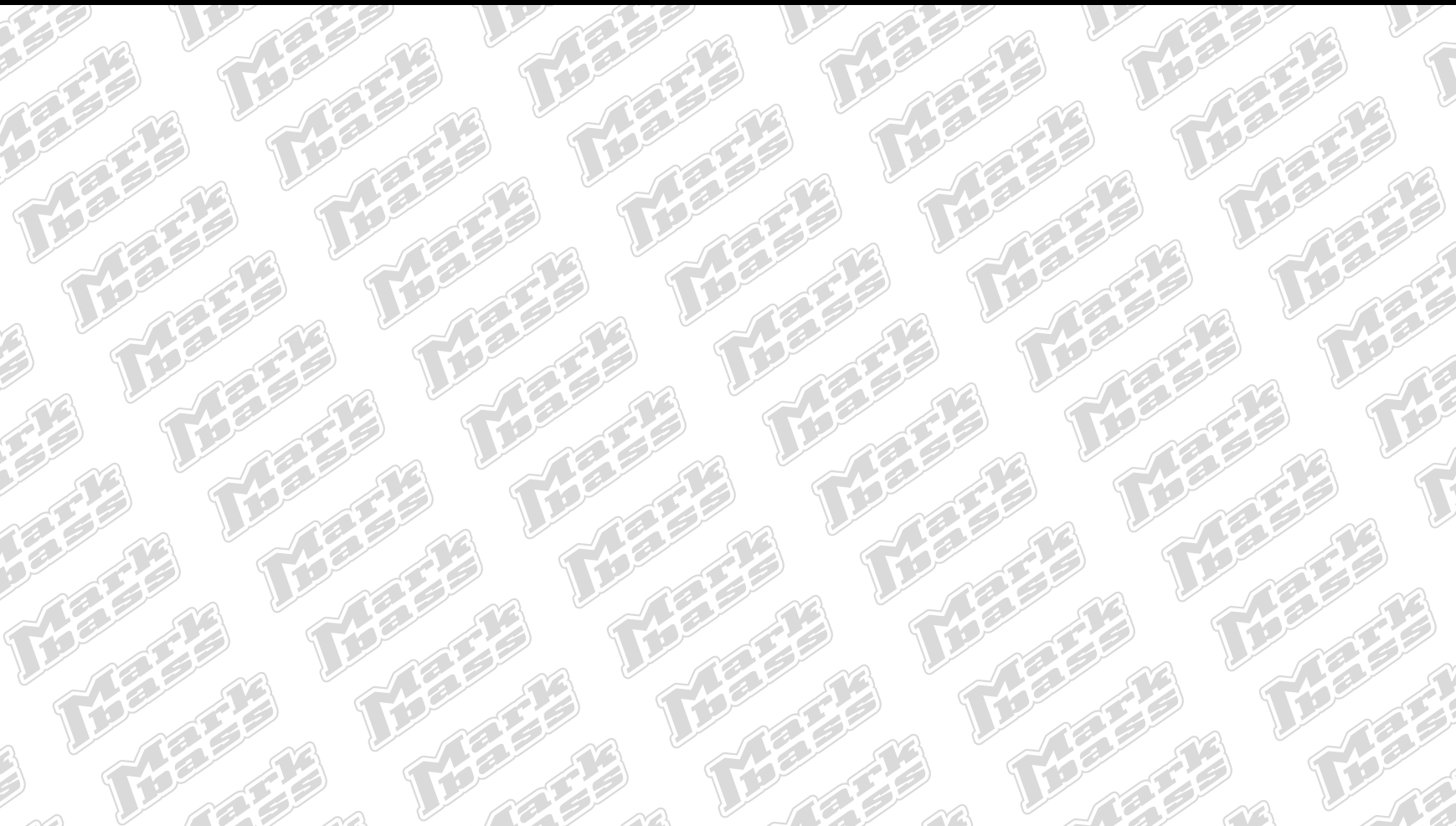
- SYMPTOM** The amp gets hot and shuts down.
- PROBABLE CAUSE** The amp has overheated, either as a result of inadequate ventilation or a damaged cooling system fan. When the amplifier cools down to a safe level, the amp will automatically restart.
- SUGGESTIONS** Please verify that the fan is working properly, and that the cooling system ports are not obstructed.

CURRENT PROTECTION

- SYMPTOM** The amp turns on, but there is no signal coming from the speaker/s.
- PROBABLE CAUSE** Low impedance load (minimum impedance for Markbass amps is 4 ohms), or a bad speaker cable.
- SUGGESTIONS** Please verify the impedance of the speaker/s connected to the amp. Note that two 4 ohm cabinets, or an 8 ohm and a 4 ohm cabinet, will result in an impedance below 4 ohms. Please check the speaker cable/s. After checking these two things, please turn the amp off and turn it on again.

If the troubleshooting steps outlined above do not solve your problem, please contact your Markbass distributor/dealer for service information.

For more TROUBLESHOOTING TIPS, please check the FAQ section on the SUPPORT page of our website at www.markbass.it.



Markbass

Product specifications are subject to change without notice

**Mark
bass**

BASS at its BEST

www.markbass.it

Italy - 66020 San Giovanni Teatino (Ch) - Via Po, 52 - Tel. +39 085 446 3755 - Fax +39 085 440 7764 -
www.markbass.it - info@markbass.it