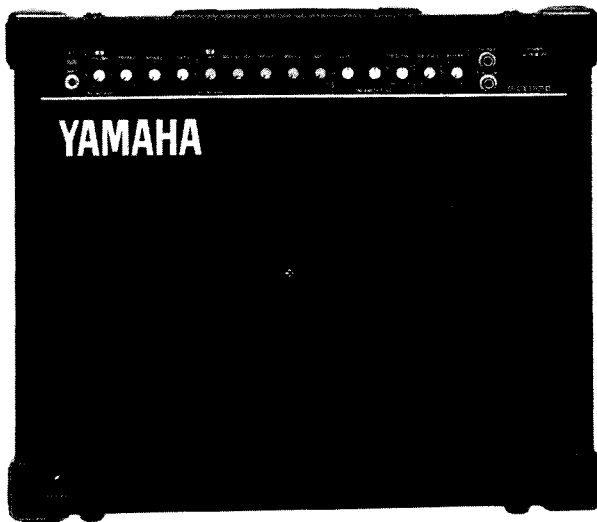


GUITAR AMPLIFIER

G100-112III/112SIII/ 210III/212III/212SIII

Except U.S.

SERVICE MANUAL



G100-112III



G100-212III

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SINCE 1887



YAMAHA

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SPECIFICATIONS(仕様)

		G100-112III	G100-112SIII☆	G100-210III	G100-212III	G100-212SIII☆
OUTPUT POWER		100W RMS @10% THD into 8Ω		100W RMS @10% THD into 4Ω		
SPEAKERS		JA3113 12" (30cm) x 2	JA3112 12" (30cm) x 1	JA2529 10" (25cm) x 2	JA3111 12" (30cm) x 2	JA3113 12" (30cm) x 2
INPUT LEVEL/IMPEDANCE	INPUT	-20dB (77.5 mV)/1 MΩ				
	RETURN INPUT	-10dB (245 mV)/20 kΩ				
	POWER AMP INPUT	-				
OUTPUT LEVEL	SPEAKER	100W (8Ω)		100W (4Ω)		
	SEND OUT/PRE OUT (10kΩ)	-10dB (245 mV)				
	DIRECT OUT (10kΩ)	-10dB (245 mV)				
	PHONES (8Ω)	-11dB (218 mV)				
GAIN	Ach (INPUT → SP OUT)	70dB				
	Bch (INPUT → SP OUT)	88dB				
	Ach (INPUT → SEND OUT)	33dB				
	(RETURN INPUT → OUTPUT)	47dB				
NOISE*	Ach (All Volumes at Min.)	-52dB				
	Bch (All Volumes at Min.)	-52dB				
	Ach: VOLUME, TREBLE MIDDLE, BASS at Max.	-42dB				
	Bch: GAIN, M. VOL, TREBLE MIDDLE, BASS at Max.	-24dB				
P.EQ	LEVEL	±15dB				
	Q	0.35 ~ 3.0				
	FREQUENCY	100 ~ 5kHz				
REVERB ACCUTRONICS SPRING (ACCUTRONICS SPRING-TYPE)		4EB3C1B				
POWER REQUIREMENT Japanese model U.S. & Canadian models General model		100V AC50/60Hz 120V AC60Hz 110/130/220/240V AC50/60Hz				
POWER CONSUMPTION Japanese model U.S. & Canadian models General model		90W 180W 250W				
DIMENSIONS	W	543mm (21-3/8")		647mm (25-15/32")		699mm (27-17/32")
	H	470mm (18-1/2")		420mm (16-17/32")		**560mm (22-1/16")
	D	293mm (11-17/32")		293mm (11-17/32")		293mm (11-17/32")
WEIGHT		22.5kg(49lbs 8oz)	25kg(55lbs)	26kg(57lbs 3oz)	29kg(63lbs 13oz)	34.4kg(75lbs 11oz)
STANDARD ACCESSORY		Double Foot SW	Foot SW ***	Double Foot SW		Foot SW ***

• 0 dB is referred to 775 mV rms. *Measured with a 6 dB/oct. filler @12.7 kHz. **Height include Castors. ***Triple Foot SW
 • Specifications subject to change without notice.
 ☆ Models with an "S" suffix feature balanced line outputs and special high-grade speakers

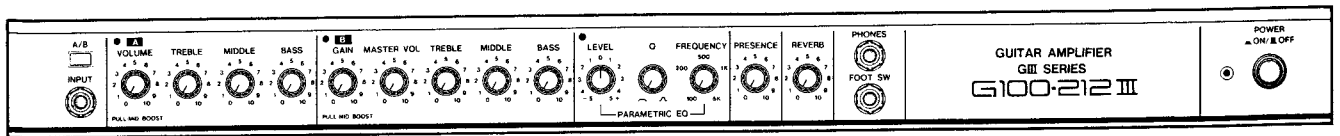
- * 12.7kHz、6dB/oct. フィルターで補正。
- ** キャスター含む。
- 国内向モデルは、G100-112III及びG100-212IIIのみ。
- 仕様および外観は、改良のため予告なく変更することがあります。

LOUDSPEAKER SPECIFICATIONS (スピーカー仕様)

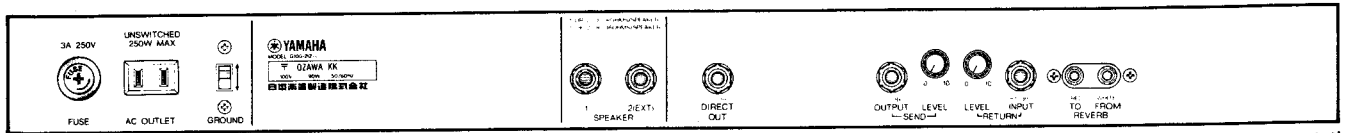
	JA3111	JA3113	JA3112	JA2529
Cone Diameter	12" (30 cm)	12" (30 cm)	12" (30 cm)	10" (25 cm)
Voice Coil Diameter (mm)	52 φ	66 φ	100 φ	52 φ
Magnet Weight (kg)	Ferrite 2.6	← 3.5	← 6.8	← 2.4
Frequency Range (Hz)	45 ~ 7 k	60 ~ 6.5 k	70 ~ 6 k	55 ~ 7 k
Sound Pressure Level 1 m/W (dB)	96	99	101	96
Rated Input* (W)	60	120	120	60
Nominal Impedance (Ω)	8	8	8	8
fo (Hz)	58	65	55	82

* Continuous RMS power rating. *RMS連続プログラム。

FRONT PANEL



REAR PANEL



G100-212III (Japanese model)

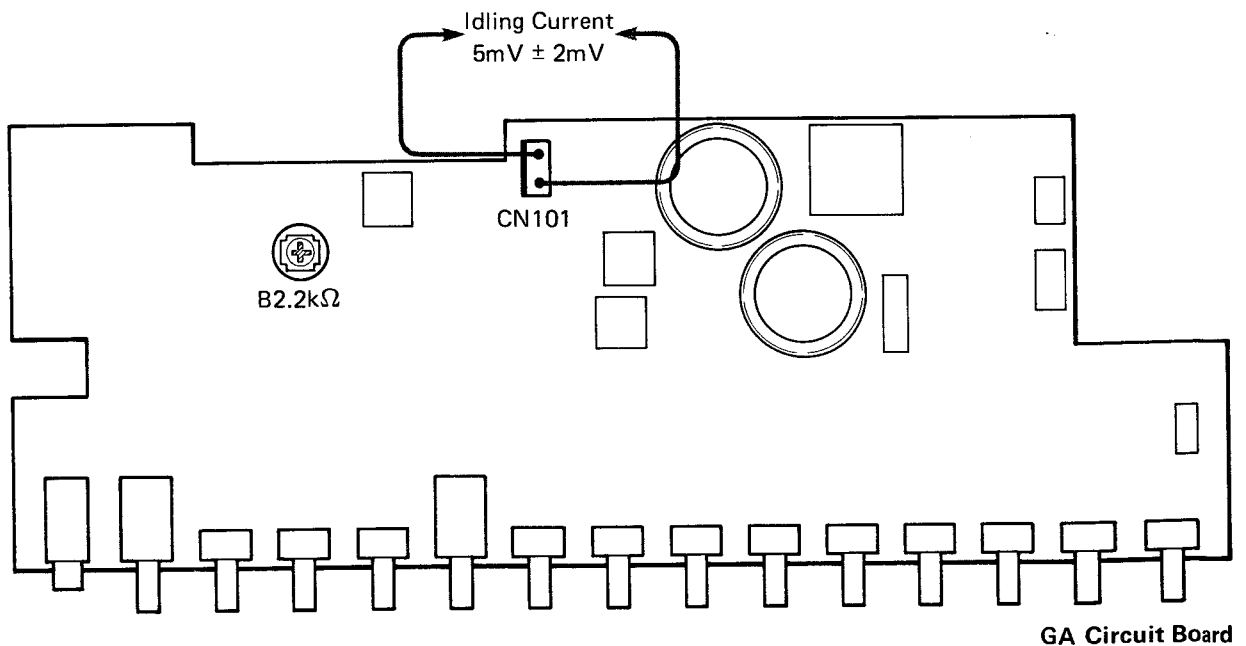
GENERAL ADJUSTMENT

For the measurement, use an AC voltmeter/dB meter with an input impedance of over $100k\Omega$ or the equivalent.

● Idling Current Adjustment

Adjust the pot (B $2.2k\Omega$) so that the voltage across the 1 pin and 2 pin of CN101 is set to $5mV \pm 2mV$.

*Idling current adjustment is necessary after replacing power transistors and/or driver transistors. Be sure to turn the adjustment pot fully counterclockwise before AC is applied.



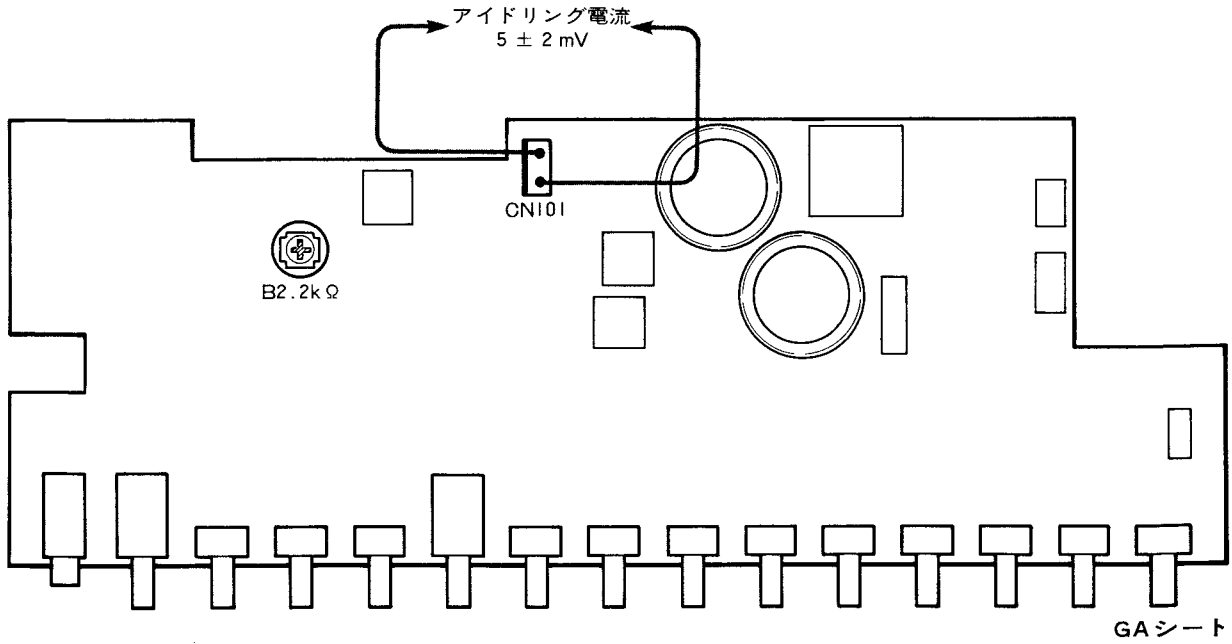
■調整

測定には、入力インピーダンス100kΩ以上のACボルトメーター等を使用してください。

●アイドル電流の調整

無信号状態において、CN101の1ピン、2ピン間の電圧が、 $5 \pm 2 \text{ mV}$ になるように半固定抵抗(B2.2kΩ)を調整します。

※パワートランジスタ交換時など、調整を最初からやり直す場合は、電源をONにする前に、一度半固定抵抗を反時計方向いっぱいまで廻してください。



210Ⅲ/212Ⅲ/2125Ⅲ