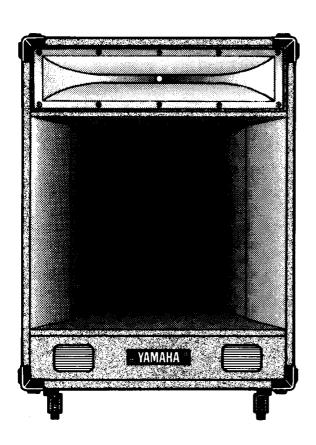
YAMAHA

Sound Peinforcement Speaker System Haut-Parleur de Renforcement Sonore Tonverstärkungslautsprechersystem

S4115HII

OPerating Manual Mode d'emploi Bedienungsanleitung



Thank you for purchasing the Yamaha S4115HII Sound Reinforcement Speaker System. The S4115HII is a professional SR speaker system that is versatile enough for use in a wide range of sound systems. It is mounted in a large model, front loaded-horn bassreflex type enclosure. An ample 38 cm carbon cone woofer with superior attack and dispersion, and a high performance H.F. driver and horn combination provide superb sound reproduction and excellent balance in both low and mid-to-high frequency ranges. What's more, the H.F. driver level can be freely controlled with the H.F. LEVEL control installed in the input panel, for top SR performance under all conditions. Naturally the materials, components and construction of the speaker box have been carefully tested, right down to the selection of the NW elements.

To obtain maximum performance from your Yamaha speaker system and ensure its trouble-free operation, we recommend that you read this operation manual thoroughly.

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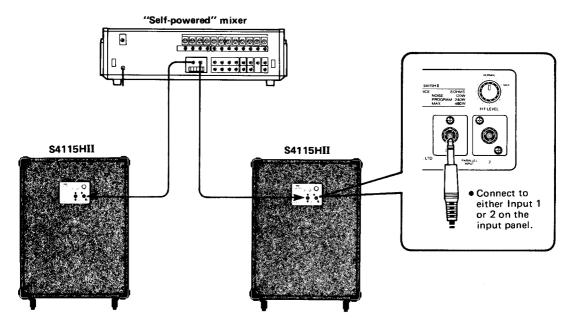
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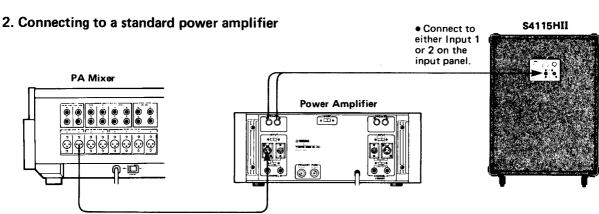
PRECAUTIONS

- Be sure to turn amplifier power OFF before attempting to connect the speakers.
- To avoid distortion and possible damage to the speaker units, never drive the speakers with more than their maximum rated power.
- Nominal impedance of the S4115HII is 8 ohms.
 When operating the unit in parallel, please ensure overall impedance falls within the amplifier's rated capacity.
- To avoid phase problems, please ensure that all speakers are correctly connected to the amplifier's speaker terminals (+, -).
- Corner protectors hold the S4115HII in place if it is set on a base, but when operated in this position proper safety precautions must be taken to prevent it from falling.

CONNECTIONS

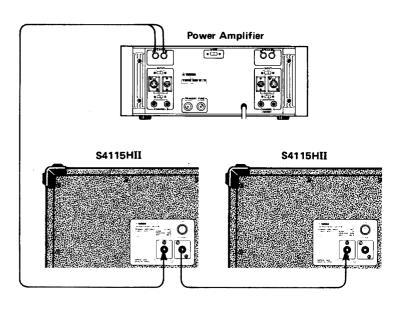
1. Connecting to a mixer a built-in power amplifier





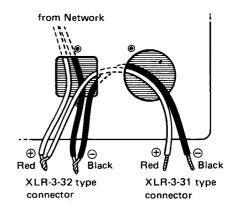
3. Connection in parallel

The two input jacks are connected in parallel inside the unit, so that connections can easily be made as shown in the diagram. Power amplifiers are normally designed for stable operation with 4 or 8 ohm impedance loads. Therefore, you should never connect more than two speaker units in parallel, except when using a power amplifier designed to operate with a load impedance lower than 4 ohms.



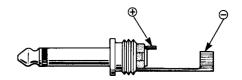
INSTALLATION OF XLR TYPE CONNECTORS

The S4115HII phone jacks can be easily replaced with XLR type connectors if necessary. Simply remove the phone jacks by unscrewing the two screws which hold them in place.



PHONE PLUG WIRING

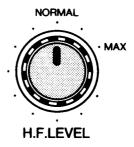
Standard input terminals for this unit are 1/4" phone jacks. Connect speaker leads as shown in this diagram.



• H.F. LEVEL Controller

The H.F. LEVEL controller installed in the input panel is usually set to NORMAL. The S4115HII speaker system delivers an extremely flat response at both the highest and lowest extremes of the frequency range, and this knob provides control of the high range (H.F. driver) level to suit the operating conditions.

To reduce this level 1.6 kHz or more, turn the knob to the left. To increase it 1.6 kHz or more, turn it toward MAX.

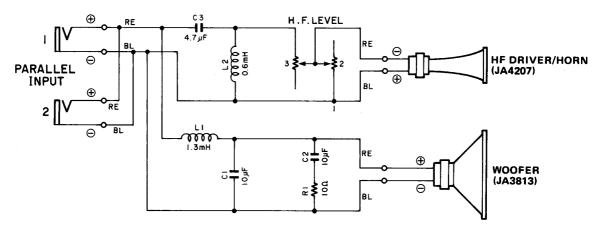


SPECIFICATIONS

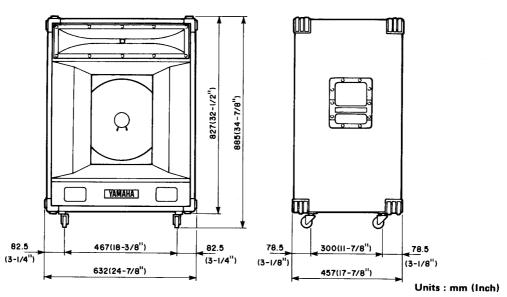
FREQUENCY RANGE:	50Hz to 16kHz
POWER CAPACITY:	120W (IEC weighted noise, 100 hours duration) 240W (Program) 480W (Max.)
NOMINAL IMPEDANCE:	8 ohms
SENSITIVITY:	103dB SPL (With 1W at 1m on-axis)
CROSSOVER FREQUENCY:	1.6kHz
DRIVER	Low: 15" low frequency loudspeaker JA3813 High: High frequency compression driver/horn JA4207
CONNECTORS:	Parallel 1/4"-phone jack (XLR connector can be substituted)
ENCLOSURE:	Front loaded-horn, Bass reflex type
DIMENSIONS (W x H x D):	632 x 827 x 457 mm 24-7/8 x 32-1/2 x 18" (Without caster)
WEIGHT:	56.0kg (123.2 lbs) (With caster) 55.2kg (121.4 lbs) (Without caster)
	Consideration which the state of the

Specifications subject to change without notice.

SCHEMATIC DIAGRAM



DIMENSIONS

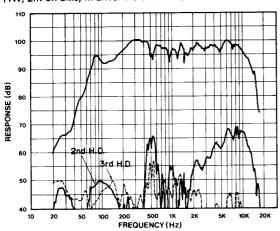


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PERFORMANCE GRAPHS

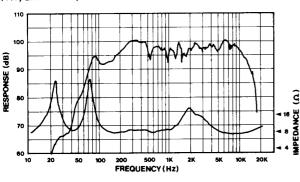
■ Frequency Response/Harmonic Distortion

(1W, 2m on axis, in anechoic chamber)



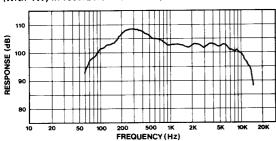
■ Frequency Response/Impedance

(1W, 2m on axis, in anechoic chamber)



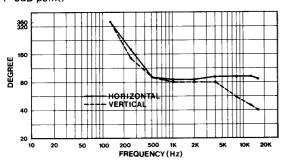
■ Power Level vs Frequency

(with 1W, in reverberant chamber)

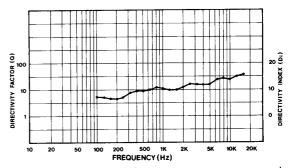


■ Beamwidth vs Frequency

(-6dB point)



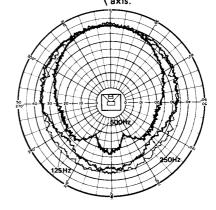
■ Directivity vs Frequency

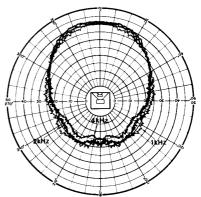


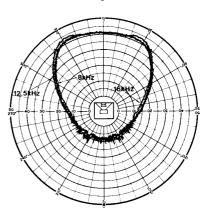
■ Polar Response

Horizontal

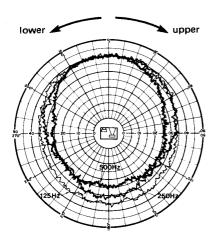
1/3 octave bands limited pink noise, 1W RMS, 2m on axis in anechoic chamber.
All polars nominalized to on axis.



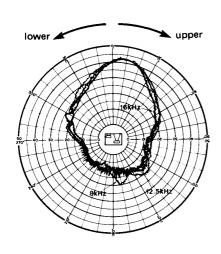




Vertical



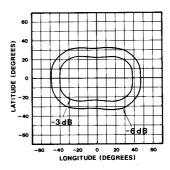
lower upper



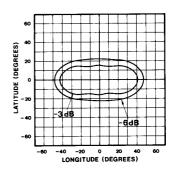
■ Isobar Contours

(octave bandwidth)
OdB on axis

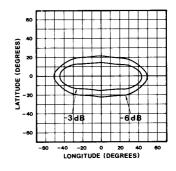
• 4kHz



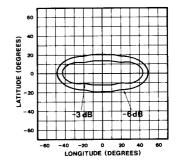
• 8kHz



• 12.5kHz



• 16kHz



SERVICE

The S4115HII is supported by Yamaha's worldwide network of factory trained and qualified dealer service personnel. In the event of a problem, contact your nearest Yamaha dealer.