CLUB Series SPEAKER SYSTEM/ **SUBWOOFER**

SERVICE MANUAL



SM12 IV S

S115 IV S

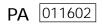




This document is printed on chlorine free (ECF) paper with soy ink.

PARTS LIST





This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been ass							
that basic service pr	rocedures inherent to the industry, and more specifically Yamaha Products, are already known and under and have therefore not been restated.						
WARNING :	WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in per sonal injury, destruction of expensive components and failure of the product to perform as specified. Fo these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.						
IMPORTANT :	This presentation or sale of this manual to any individual or firm does not constitute authorization cert cation, recognition of any applicable technical capabilities, or establish a principal-agent relationship any form.						
service departments and changes in spe	s belived to be accurate and applicable to the unit(s) indicated on the cover. The research engineering, a s of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitat cification are subject to change without notice or obligation to retrofit. Should any discrepancy appear t the distributor's Service Division.						
WARNING :	Static discharges can destroy expensive components. Discharge any static electricity your body m have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires conne to this buss.)						
	Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply pow						

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (Where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

WARNING

Components having special characteristics are marked $\hat{\Sigma}$ and must be replaced with parts having specification equal to those originally installed.

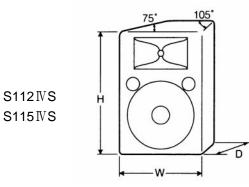
SPECIFICATIONS

Model		S112 ⅣS	SM12 IV S	S115 Ⅳ S		
Enclosure		Bass reflex type				
Speaker Unit	LF	12" cone	12" cone	15" cone		
	HF		2" driver			
Frequency Response)	60 Hz to 16 kHz	60 Hz to 16 kHz	55 Hz to 16 kHz		
Power Capacity	NOISE*	150 W	150 W	250 W		
	PGM	300 W	300 W	500 W		
	MAX	600 W	600 W	1000W		
Nominal Impedance		8 Ω				
Sensitivity		97 dB SPL (1W, 1m)	97 dB SPL (1W, 1m)	99 dB SPL (1W, 1m)		
Nominal Dispersion	Horizontal	·	90 °			
	Vertical		40 °			
Crossover Frequency	/	2 kHz	2 kHz	1.7 kHz		
Input Connectors		1/4" Phone jack x 2 (parallel input)				
Dimensions (W x H X D)		400 x 638 x 318 mm	643 x 402 x 344 mm	475 x 712 x 362 mm		
Weight		19.3 kg	19.5 kg	27.5 kg		

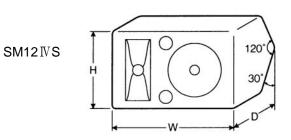
Model		SW118 IV S
Enclosure		Bass reflex type
Speaker Unit		18" cone
Frequency Response		30 Hz to 2 kHz
Power Capacity	NOISE*	250 W
	PGM	500 W
	MAX	1000W
Nominal Impedance		8 Ω
Sensitivity		96 dB SPL (1W, 1m)
Recommended Crossover	Frequency	90 Hz, 12 dB/octave
Input Connectors		1/4" Phone jack x 2 (parallel input)
Dimensions (W x H X	D)	542 x 654 x 791mm
Weight		32.4 kg

CLUB Series SPEAKER SYSTEM/ SUBWOOFER



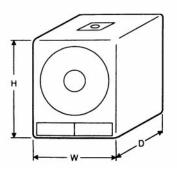


S112IVS (WXHXD): 400X638X318 S115IVS (WXHXD): 475X712X362



SM12 IV S (WXHXD): 643X402X344



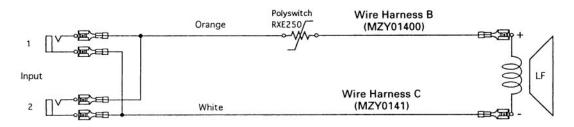


Units: mm

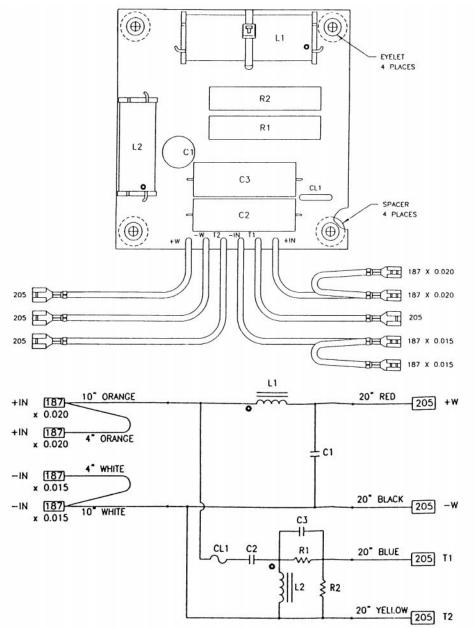
SW118 IVS (WXHXD): 542×654×791

SCHEMATIC DIAGRAMS & CIRCUIT BOARDS

\bullet SW118 ${\rm I\!V}$ S Network



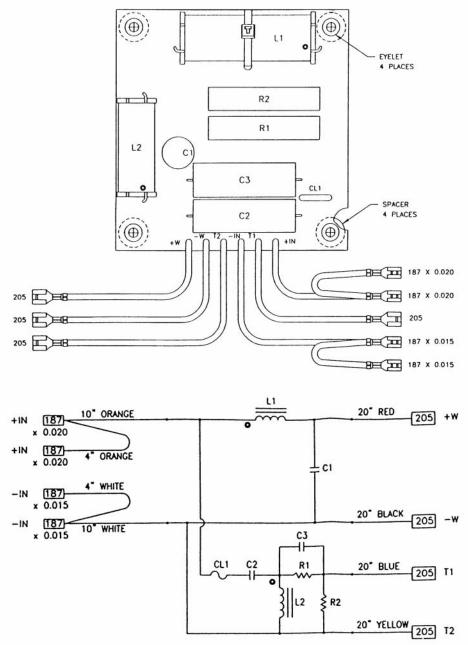
$\bullet\,S115\,\mathrm{IV}\,S$ Network



Network NBY06410 Parts List

C1	15.0 uF, 100V, NON-POLAR, RADIAL, 4% DF, ±5%, 13X26mm C.S.
C2, C3	4.7 uF, 250V, METALLIZED POLYESTER FILM, FLAT AXIAL TYPE, ±5%, 45mm LG
L1	2.00 mH, 57X9.5X10mm, LAMINATED STEEL I CORE, 0.36 ohm DCR, ±5%, 19 AWG
L2	0.80 mH, 41X6X7mm, LAMINATED STEEL I CORE, 0.27 ohm DCR, ±5%, 20 AWG
R1,R2	8.2 ohm, 10W, ±5%, SQZS-2
CL1	CURRENT LIMITER, RXE135
187 X 0.015	FASTON, FEMALE, 0.187 X 0.015, BRASS
187 X 0.020	FASTON, FEMALE, 0.187 X 0.020, TINNED BRASS
205	FASTON, FEMALE, 0.205 X 0.020, BRASS
EYELET	EYELET, SE68, BRASS
PCB	MATERIAL: CEM-1 COPPER: 1 OZ.
SPACER	SPACER, 1/2" O.D. X 3/16" I.D. X 1/8" T. PVC
WIRES	18 AWG, UL-1007
3.	ON SOLDER SIDE, MARK THE CHECK BOX CORRESPONDING WITH P/N NBY0613 WITH A BLACK DOT.
2.	"O" DENOTES START LEAD OF INDUCTOR.
1.	ALL COMPONENTS TO BE TESTED O 1 Khz., UNLESS OTHERWISE SPECIFIED.

• S112 \mathbb{N} S/SM12 \mathbb{N} S Network



Network NBY06420 Parts List

	15.0 uF, 100V, NON-POLAR, RADIAL, 4% DF, ±5%, 13X26mm C.S. 4.7 uF, 250V, METALLIZED POLESTER FILM, FLAT AXIAL TYPE, ±5%, 45mm LG 1.30 mH, 57X9.5X10mm, LAMINATED STEEL I CORE, 0.29 ohm DCR, ±5%, 19 AWG 0.80 mH, 41X6X7mm, LAMINATED STEEL I CORE, 0.27 ohm DCR, ±5%, 20 AWG 5.0 ohm, 10W, ±5%, SQZS-2 CURRENT LIMITER, RXE135 FASTON, FEMALE, 0.187 X 0.015, BRASS FASTON, FEMALE, 0.187 X 0.020, TINNED BRASS FASTON, FEMALE, 0.205 X 0.020, BRASS FASTON, FEMALE, 0.205 X 0.020, BRASS FYELET, SE68, BRASS
PCB SPACER WIRES	MATERIAL: CEM-1 COPPER: 1 OZ. SPACER, 1/2" O.D. X 3/16" I.D. X 1/8" T. PVC 18 AWG, UL-1007
3.	ON SOLDER SIDE, MARK THE CHECK BOX CORRESPONDING WITH P/N NBYO614 WITH A BLACK DOT.
2.	■ DENOTES START LEAD OF INDUCTOR. ALL COMPONENTS TO BE TESTED ■ 1 Khz., UNLESS OTHERWISE SPECIFIED.
	- 동생 사람이 가 잘 가지 않는 것 같아요. 이렇게 이렇게 이렇게 가 있는 것 같아요. 이렇게 하는 것 같아요. 이렇게 아니 아요. 이렇게 아니 아요. 이렇게 아니 아요. 이렇게 하는 것 같아요. 이렇게 아니 아요. 이

CLUB Series SPEAKER SYSTEM/ SUBWOOFER

PARTS LIST

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OVERALL ASSEMBLY

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Notes : DESTINATION ABBREVIATIONS

A :	Australian model	M: South African model	
B :	British model	O: Chinese model	
C :	Canadian model	Q: South-east Asia model	
D :	German model	T: Taiwan model	
E :	European model	U: U.S.A. model	
F :	French model	V: General export model (110V)	
Η:	North European model	W: General export model (220)	
1:	Indonesian model	N,X: General export model	
J :	Japanese model	Y: Export model	

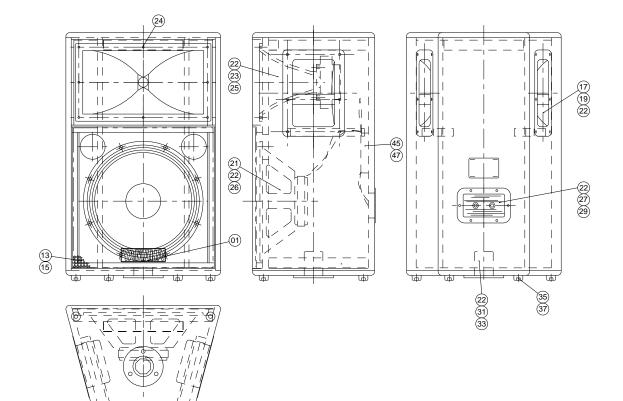
WARNING

Components having special characteristics are marked $\underline{\wedge}$ and must be replaced with parts having specification equal to those originally installed.

- The numbers "QTY" show quantities for each unit.
- The parts with "--" in "PART NO." are not available as spare parts.
- This mark " } " in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded () part number is O, not zero.
- The second letter of the shaded () part number is I, not one.

OVERALL ASSEMBLY: S112 IV S

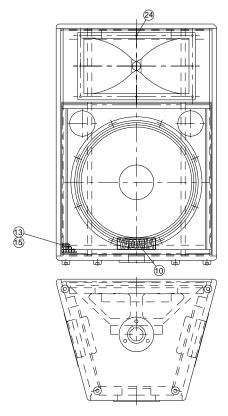
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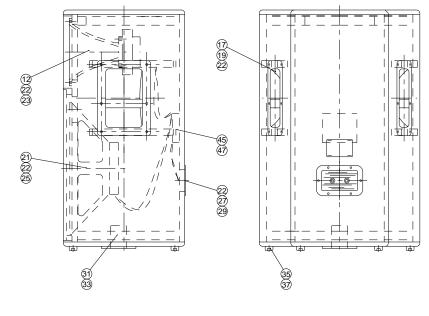


REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		OVERALL ASSEMBLY		S112IVS		
01	CBY03990	YAMAHA Logo				05
* 13	AAY02550	Metal Grille				
15	ETAG1030	Truss Head SM Screw	#6 X 5/8		8	01
17	AAY02200	Metal Handle			2	08
19	ETAI1230	Truss Head SM Screw	#8 X 3/4		12	01
	JAY51200		12"			19
22	CBY01480	Speaker Gasket			11	03
23	NBY06160	Horn Assembly				26
23a	CBY03900	Horn-90 Deg				13
23b	JAY20610	Horn Driver				22
23c	NBE20610	Diaphragm Assembly				16
23d	EKY01330	Pan Head Screw	1/4-20X5/8 W/T.W		2	01
* 24	EPAK2430	Pan Head SM Screw	#10 X 1-1/2 BL			
25	EKY01240	Pan Head PB Screw	#10 X 1 BLK		7	01
26	EKY01460	Pan Head PB Screw	#8X1 BLK ZINC		8	
* 27	NBY07010	Input Panel Assembly				
27a	AAY02130	Input Panel				08
27b	EWPP0010	Plain Washer	3/8SI SAE		2	01
27c	LBY00150	Jack				05
27d		Decal		(CBY0523)		
29	ETAG1030	Truss Head SM Screw	#6 X 5/8		6	01
31	CBY03910	Tripod Support MNT35				06
33	EKY01240	Pan Head PB Screw	#10 X 1 BLK		3	01
35	CBY01890	Rubber Foot			4	03
37	EKY01240	Pan Head PB Screw	#10 X 1 BLK		4	01
45	NBY06420	Network	12"			15
47	EPAG1230	Pan Head PB Screw	#6 X 3/4		4	01

*: New Parts

OVERALL ASSEMBLY: S115 IV S



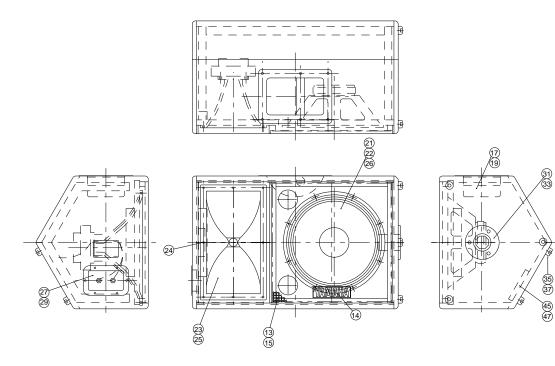


- 1	REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
			OVERALL ASSEMBLY	S115IVS		
	10	CBY03990	YAMAHA logo			05
	12	EKY01240	Pan Head PB Screw	#10 X 1 BLK	7	01
*	13	AAY02540	Metal Grille			
	15	ETAG1030	Truss Head SM Screw	#6 X 5/8	8	01
	17	AAY02200	Metal Handle		2	08
	19	ETAI1230	Truss Head SM Screw	#8 X 3/4	12	01
	21	JAY61300	Woofer	15"		30
	22	CBY01480	Speaker Gasket		12	03
	23	NBY06160	Horn Assembly			26
	23a	CBY03900	Horn-90 Deg			13
	23b	JAY20610	Horn Driver			22
	23c	NBE20610	Diaphragm Assembly			16
	23d	EKY01330	Pan Head Screw	1/4-20X5/8 W/T.W	2	01
*	24	EPAK2430	Pan Head SM Screw	#10 X 1-1/2 BL		
	25	EKY01000	Pan Head Screw	#10-32 X 1 BLK	8	03
*	27	NBY07000	Input Panel Assembly			
	27a	AAY02130	Input Panel			08
	27b	EWPP0010	Plain Washer	3/8SI SAE	2	01
	27c	LBY00150	Jack			05
	27d		Decal	(Cl	BY0523)	
	29	ETAG1030	Truss Head SM Screw	#6 X 5/8	6	01
	31	CBY03910	Tripod Support MNT35			06
	33	EKY01240	Pan Head PB Screw	#10 X 1 BLK	3	01
	35	CBY01890	Rubber Foot		4	03
	37	EKY01240	Pan Head PB Screw	#10 X 1 BLK	4	01
	45	NBY06410	Network	15"		15
	47	EPAG1230	Pan Head SM Screw	#6 X 3/4	4	01
_ I						

*: New Parts

RANK: Japan only

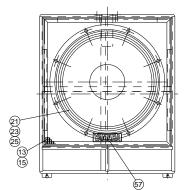
OVERALL ASSEMBLY: SM12 IV S

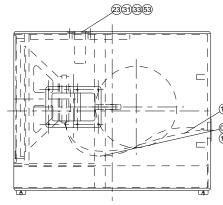


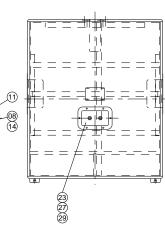
Г	REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
Γ			OVERALL ASSEMBLY		SM12IVS		
*	13	AAY02550	Metal Grille				
	14	CBY03990	YAMAHA Logo				05
	15	ETAG1030	Truss Head SM Screw	#6 X 5/8		8	01
	17	AAY02200	Metal Handle				08
	19	ETAI1230	Truss Head SM Screw	#8 X 3/4		6	01
	21	JAY51200		12"			19
	22	CBY01480	Speaker Gasket			9	03
	23		Horn Assembly				26
	23a		Horn-90 Deg		 		13
	23b	JAY20610	Horn Driver				22
	23c		Diaphragm Assembly				16
	23d		Pan Head Screw	1/4-20X5/8 W/T.W		2	01
*			Pan Head SM Screw	#10 X 1-1/2 BL			
			Pan Head PB Screw	#10 X 1 BLK	 	7	01
	-		Pan Head PB Screw	#8X1 BLK ZINC		8	
*			Input Panel Assembly				
	27a	AAY02130					08
	27b		Plain Washer	3/8SI SAE		2	01
	27c	LBY00150			 		05
	27d		Decal		(CBY0523)		
	29		Truss Head SM Screw	#6 X 5/8		6	01
	31		Tripod Support MNT35				06
	33		Pan Head PB Screw	#10 X 1 BLK			01
	35		Rubber Foot		 	7	03
	37		Pan Head PB Screw	#10 X 1 BLK		7	01
	45	NBY06420		12"			15
	47	EPAG1230	Pan Head SM Screw	#6 X 3/4		4	01

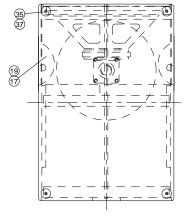
*: New Parts

OVERALL ASSEMBLY: SW118 IV S









REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		OVERALL ASSEMBLY		SW118IVS		
08		Wire Harness C		(MZY0141)		
11	MZY01400	Wire Harness B				08
13	AAY02000	Metal Grille				18
14	ETAG1030	Truss Head SM Screw	#6 X 5/8			01
		Truss Head SM Screw	#6 X 5/8		14	01
		Metal Handle			2	08
		Truss Head SM Screw	#8 X 3/4		12	01
	JAY70100					41
		Speaker Gasket			10	03
		Pan Head Screw	#10-32 X 1-1/2		8	01
		Input Panel Assembly				
	AAY02130					08
		Plain Washer	3/8SI SAE		2	01
		Jack				05
27d		Decal		(CBY0523)		
		Truss Head SM Screw	#6 X 5/8		6	01
	AAY02280		1-3/8			14
		Screw	1/4-20 X 1-1/4 BLK		4	01
					4	02
-	EKY01000	Pan Head PB Screw	#10-32 X 1 BLK	(4	03
53		Caution Label		(CBY0339)		
57	CBY03990	YAMAHA Logo				05

*: New Parts

RANK: Japan only