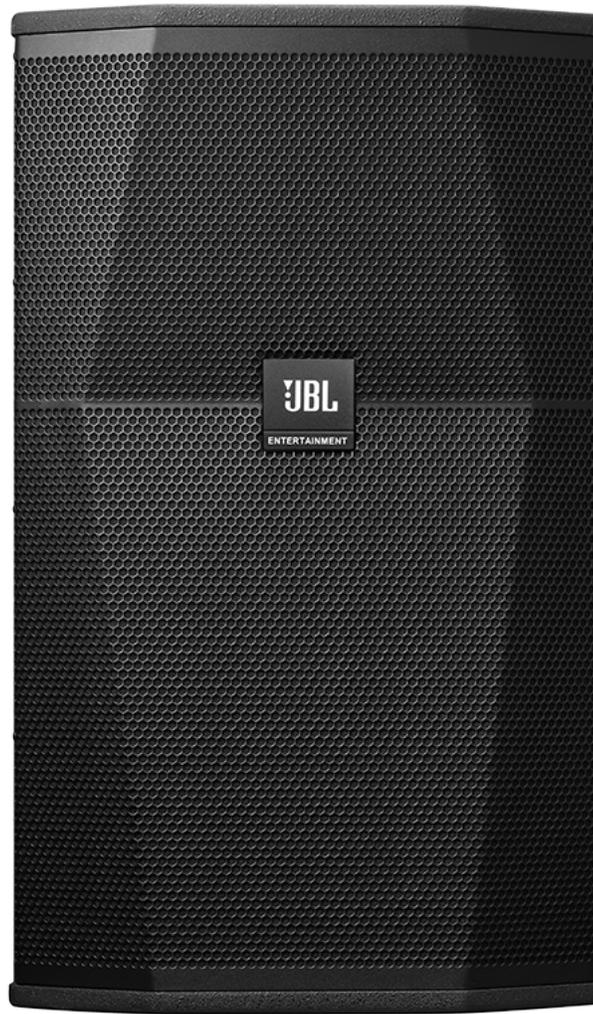




# Service Manual

## XS15

15 " 2-Way Speaker System





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# XS15

## 15 Inch 2-Way Speaker System

### Professional Series

### Key Features:

- ▶ JBL 2414H-C 1" polymer diaphragm compression driver for crystal clear vocal reproduction
- ▶ JBL designed low frequency transducer brings higher power handling and stronger bass energy
- ▶ A precision-engineered passive network critically eliminates band overlap and reveals each note detail
- ▶ 100° × 70° (H × V) horn for balanced coverage
- ▶ Rugged enclosure made from premium quality MDF
- ▶ Multiple high-strength suspension hardware for suspension installation
- ▶ Speaker pole receptacle for using with a tri-pod or subwoofer system
- ▶ High-strength edgy front grille protects the internal components from foreign objects or drink splash
- ▶ JBL Logo powered by PSL technology



### Applications:

- ▶ For entertainment businesses, e.g. high-end KTV chain stores, clubs, etc.

XS15 is a vented 15-inch full-range speaker system designed by JBL Entertainment to satisfy the demand for powerful bass punch and pristine vocal at high-class KTV chain stores or clubs.

For the high notes, XS15 uses a patent JBL 2414H-C 1" polymer diaphragm compression driver not only for its crystal clear high and mid vocal but also its contribution to reliability of the entire system. For the bass part, JBL engineered a new high-efficiency transducer capable of handling high power and reproducing more low frequency energy than its peers. A precision-engineered passive network critically eliminates band overlap and does a great job bringing each sound detail into full play. Balanced coverage across the KTV room is guaranteed by a 100° × 70° (H × V) horn, whenever the speaker is positioned in landscape or portrait mode.

XS15 houses all the acoustical components in a rugged enclosure made from premium quality MDF. Layout of components and transducers is an outcome of rounds of meticulous computing and simulation in order to achieve better frequency response in a more compact cabinet. Multiple high-strength suspension hardware and one speaker pole receptacle are provided to meet different installation requirements. The edgy front grille is machined from 16-gauge steel, for protection of internal components from foreign objects and drink splash. Just like else JBL entertainment product lines, XS15 also comes with a JBL Entertainment signature – the illuminating logo powered by JBL PSL (Passive Sound Lighting) technology, which will be constantly on when the singer keeps singing to his/her mic.

### Specifications:

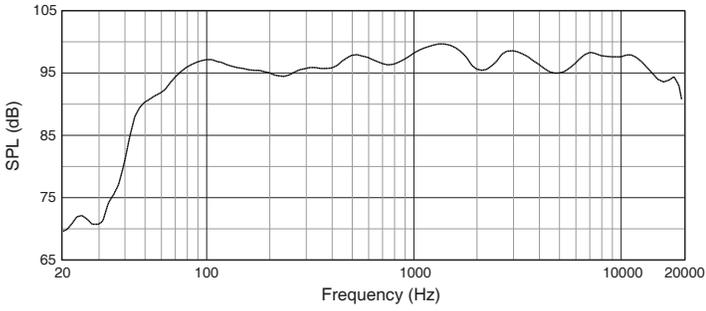
System:	
System Type:	15", 2-way, bass-reflex
Frequency Range (-10 dB) <sup>1</sup> :	45 Hz – 20 kHz
Frequency Response (±3dB) <sup>1</sup> :	75 Hz – 18 kHz
System Sensitivity (1w@1m) <sup>1</sup> :	98 dB
Nominal Impedance:	8 Ω
Maximum SPL <sup>2</sup> :	123 dB (129 dB peak)
Power Rating <sup>3</sup> :	350 W / 700 W / 1400 W (continuous / program / peak)
Coverage Pattern:	100° × 70° (H × V)
Transducer:	
HF Driver:	1 × JBL 2414H-C
LF Driver:	1 × 15" woofer
Physical:	
Enclosure:	Trapezoid, 15 mm, MDF
Suspension Attachment:	13 points, M10 threaded hardware; 35mm OmniMount pole mount socket
Finish:	Textured paint, black
Grille:	Powder coated, 1.5 mm perforated steel
Input Connector:	1 × Neutrik Speakon® NL4MP
Dimensions (H × W × D):	680 mm × 407 mm × 449 mm (26.8 in × 16.0 in × 17.7 in)
Net Weight:	24.9 kg (54.9 lbs)

1 Full space (4π) conditions  
2 Calculated maximum SPL based on rated power handling.  
3 IEC standard, pink noise with 6 dB crest factor for 2 hours

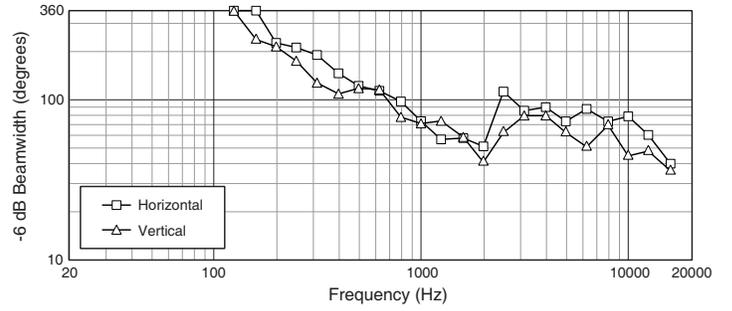
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

## ► XS15 15 Inch 2-Way Speaker System

### Frequency Response:

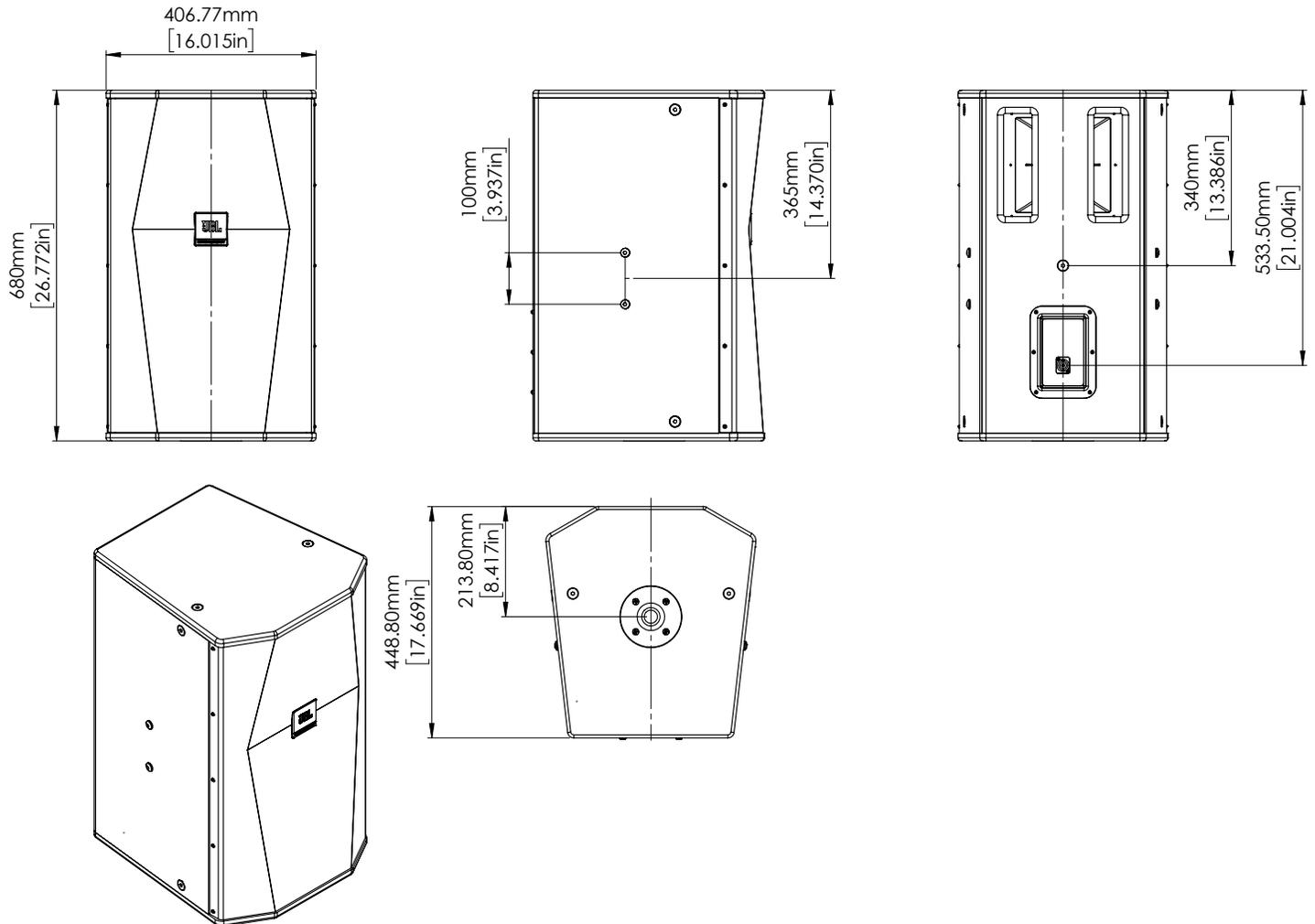


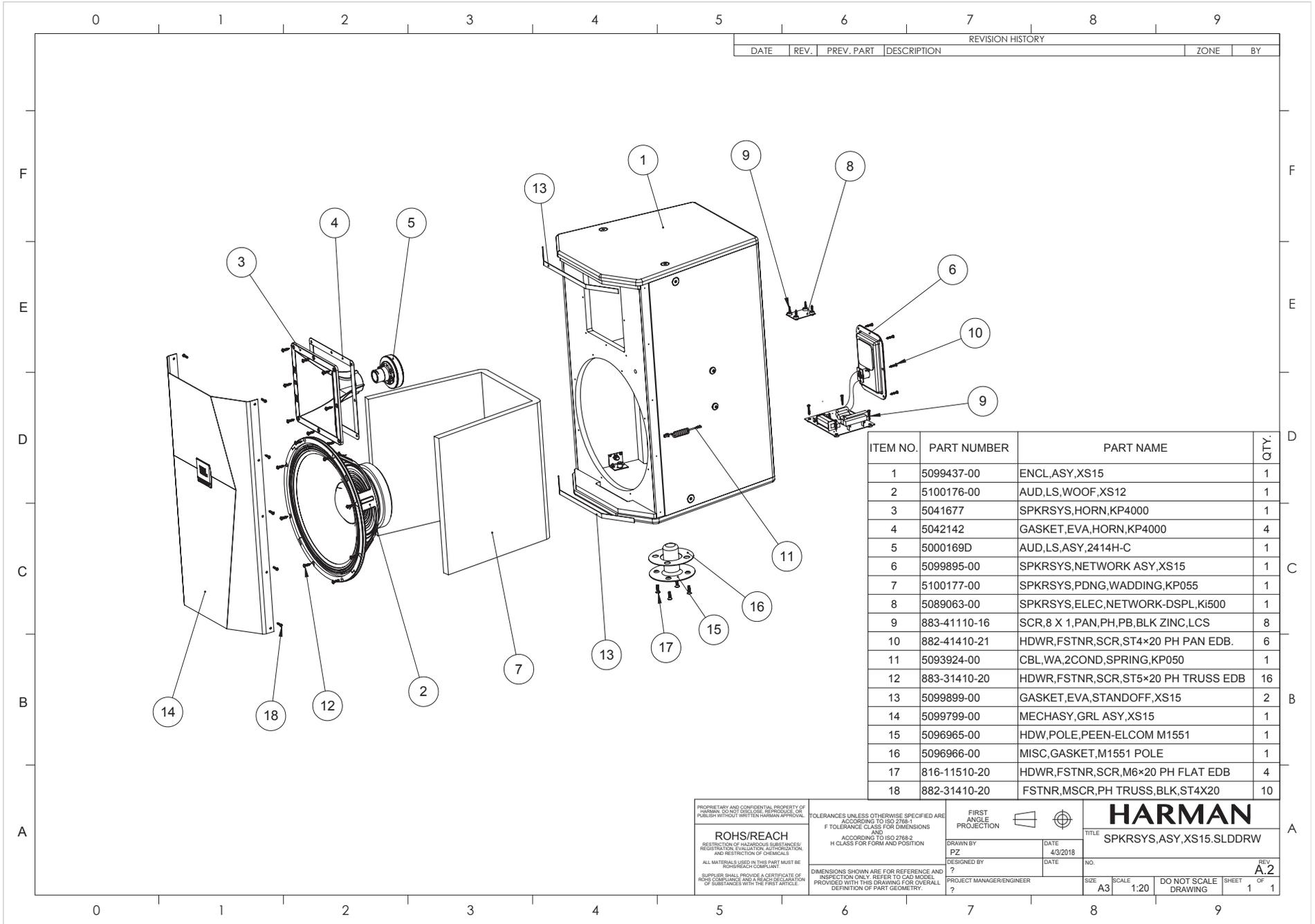
### Beamwidth:



### Dimensions:

6 [ W d a ` e [ \_ \_ / ' U z f i





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ROHS/REACH  
RESTRICTION OF HAZARDOUS SUBSTANCES;  
REGISTRATION, EVALUATION, AUTHORIZATION  
AND RESTRICTION OF CHEMICALS  
ALL MATERIALS USED IN THIS PART MUST BE  
ROHS/REACH COMPLIANT  
SUPPLIER SHALL PROVIDE A CERTIFICATE OF  
ROHS COMPLIANCE AND A REGISTRATION  
OF SUBSTANCES WITH THE FIRST ARTICLE.

TOLERANCES UNLESS OTHERWISE SPECIFIED ARE:  
F TOLERANCE CLASS FOR DIMENSIONS  
AND  
H CLASS FOR FORM AND POSITION  
ACCORDING TO ISO 2768-2

FIRST ANGLE PROJECTION

**HARMAN**

TITLE: SPKRSYS,ASY,XS15.SLDDRW

DATE: 4/3/2018

DRAWN BY: PZ

DESIGNED BY: 2

PROJECT MANAGER/ENGINEER: ?

NO.:

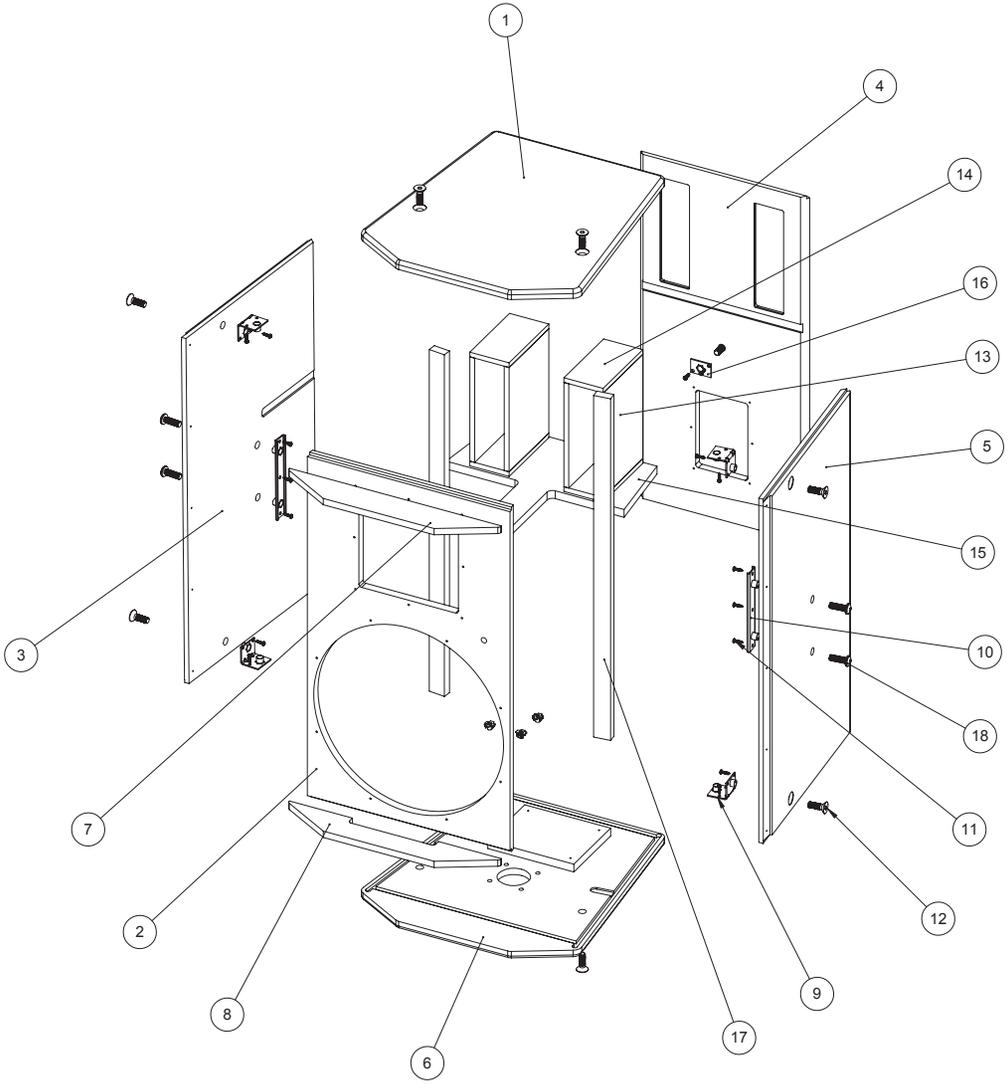
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DO NOT SCALE DRAWING

SHEET 1 OF 1

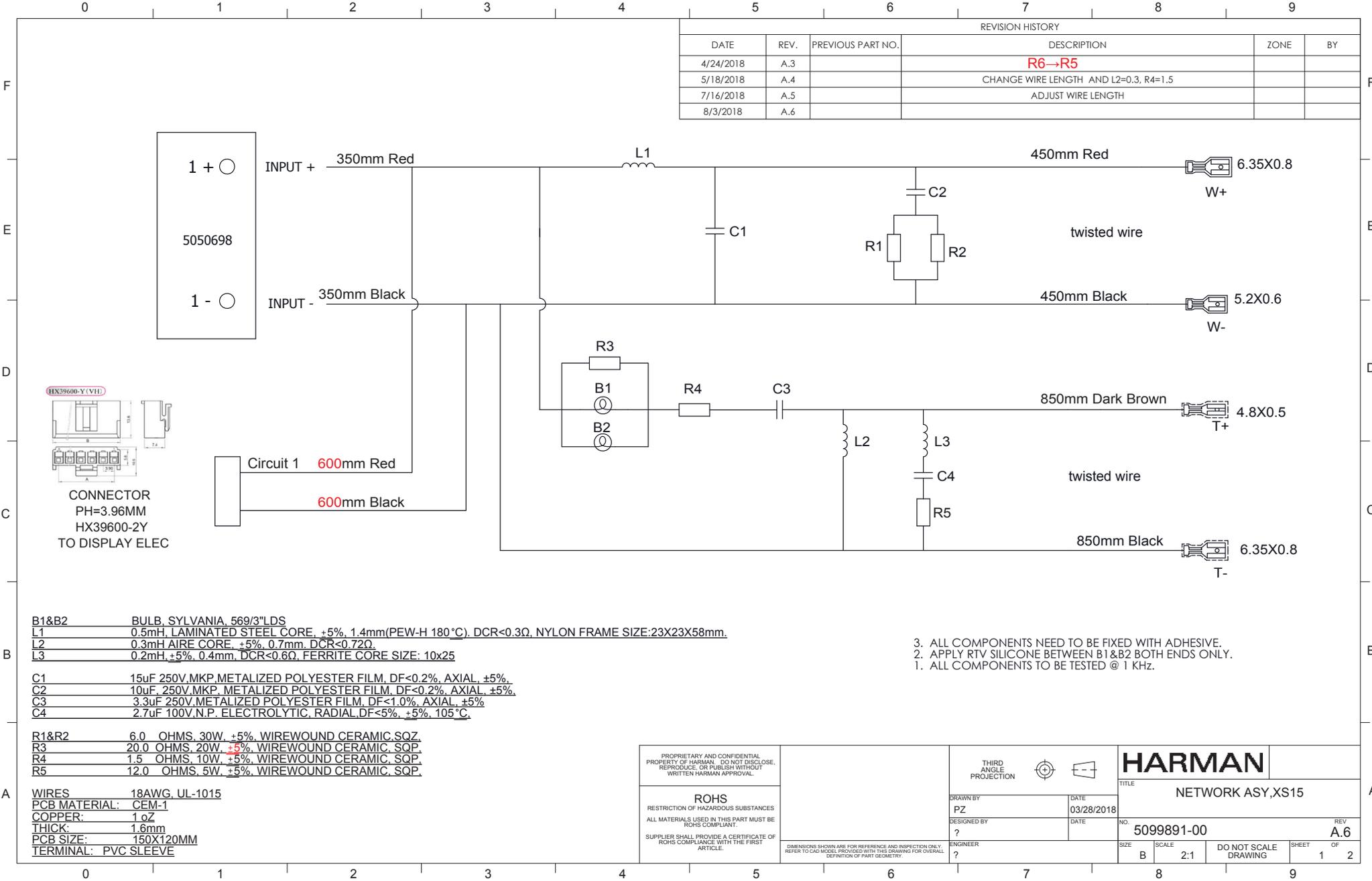
REV: A.2

REVISION HISTORY				DATE	REV.	PREVIOUS PART NO.	DESCRIPTION	ENGINEER	BY
				5/16/2018	A-2		ADJUST SOME DIMENSIONS AFTER DV.		PZ
				7/3/2018	A-4		CHANGE TOP AND BOTTOM PANEL DIMENSIONS.		



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	5099440-00	ENCL_PNL_TOP,KPS5	1
2	5099438-00	ENCL_PNL_BAFFLE,KPS5	1
3	5099441-00	ENCL_PNL_SIDE_LEFT,KPS5	1
4	5099443-00	ENCL_PNL_REAR,KPS5	1
5	5099442-00	ENCL_PNL_SIDE_RIGHT,KPS5	1
6	5099439-00	ENCL_PNL_BOTTOM,KPS5	1
7	5099447-00	ENCL_STANDOFF_TOP,KPS5	1
8	5099446-00	ENCL_STANDOFF_BOT,KPS5	1
9	445955-001	HDWR_BRKT_90DEGREE ASY,KP600	4
10	445228-001	100mm Bracket	2
11	882-41410-15	SCR_ST4*15 PH,PAN, BLK ZINC	24
12	818-13710-30	SCR,M10*30,FLAT, HED, DACROMET	9
13	5099449-00	ENCL_PNL_PORT_LONG,KPS5	4
14	5099450-00	ENCL_PNL_PORT_SHORT,KPS5	4
15	5099448-00	ENCL_PNL_CENTER,KPS5	1
16	445956-001	HDWR_BRKT_SINGLE POINT ASY,KP600	1
17	5099451-00	ENCL_STIF_SIDE,KPS5	2
18	5061435	SCR,M10*30,TRUSS,HEX	4
19	5041458	FSTNR,NUT,T-NUT,M6,HOOK PRONG	4

<b>ROHS</b> RESTRICTION OF HAZARDOUS SUBSTANCES ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED	TOLERANCES UNLESS OTHERWISE SPECIFIED X ±0.30 mm ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED	THIS IS A HARMAN PRODUCT DATE: 5/16/2018 DRAWN BY: PZ CHECKED BY: PZ ENGINEER: PZ	<b>HARMAN</b> ENCL.ASY.XS15 5099437-00 A.4 1 OF 14
	ALL DIMENSIONS APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED	DO NOT SCALE DRAWING	SCALE: 1:10



Refer to the corresponding Service Bill of Materials (SBOM) to order parts stocked by Harman.