



Service Manual

XS08

8 " 2-Way Speaker System





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XS08

8 Inch 2-Way Speaker System

Professional Series

Key Features:

- ▶ JBL 2414H-1 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
- ▶ 60° × 90° (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.

XS08 is a vented 8-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, XS08 uses a patent JBL 2414H-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 60° × 90° (H × V) horn, whenever the speaker is positioned in landscape or portrait mode.

XS08 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 18-gauge steel, for protection of internal components from foreign objects and drink splash. Just like else JBL entertainment product lines, XS08 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:	8", 2-way, bass-reflex
Frequency Range (-10 dB) ¹ :	58 Hz – 20 kHz
Frequency Response (±3dB) ¹ :	90 Hz – 18 kHz
System Sensitivity (1w@1m) ¹ :	93 dB
Nominal Impedance:	8 Ω
Maximum SPL ² :	117 dB (123 dB peak)
Power Rating ³ :	250 W / 500 W / 1000 W (continuous / program / peak)
Coverage Pattern:	60° × 90° (H × V)

Transducer:

HF Driver:	1 × JBL 2414H-1
LF Driver:	1 × 8" woofer

Physical:

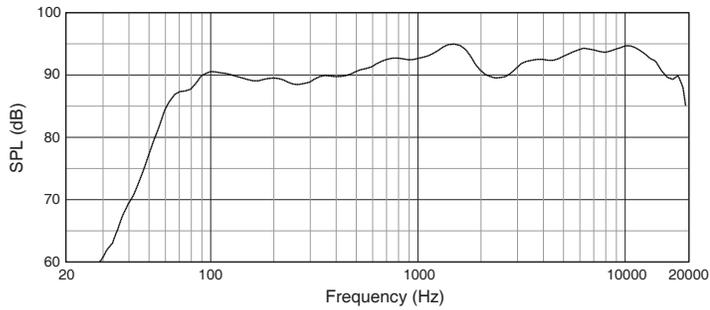
Enclosure:	Trapezoid, 15 mm, MDF
Suspension Attachment:	13 points, M10 threaded hardware; 35mm OmniMount pole mount socket
Finish:	Textured paint, black
Grille:	Powder coated, 1.2 mm perforated steel
Input Connector:	1 × Neutrik Speakon® NL4MP
Dimensions (H × W × D):	480 mm × 244 mm × 289 mm (18.9 in × 9.6 in × 11.4 in)
Net Weight:	11.9 kg (26.2 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

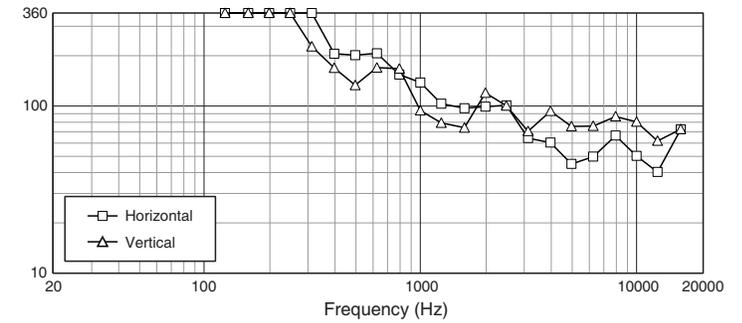
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published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

► XS08 8 Inch 2-Way Speaker System

Frequency Response:

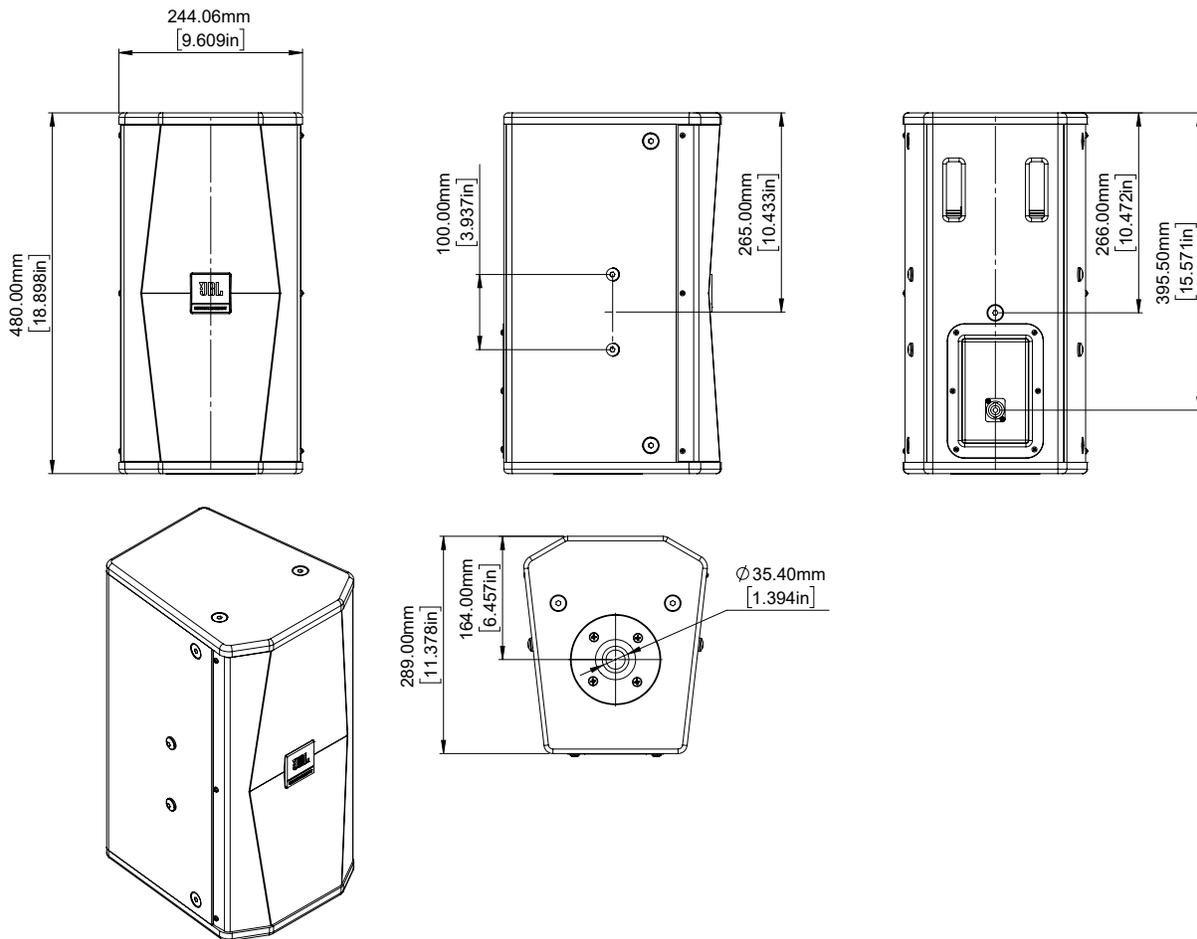


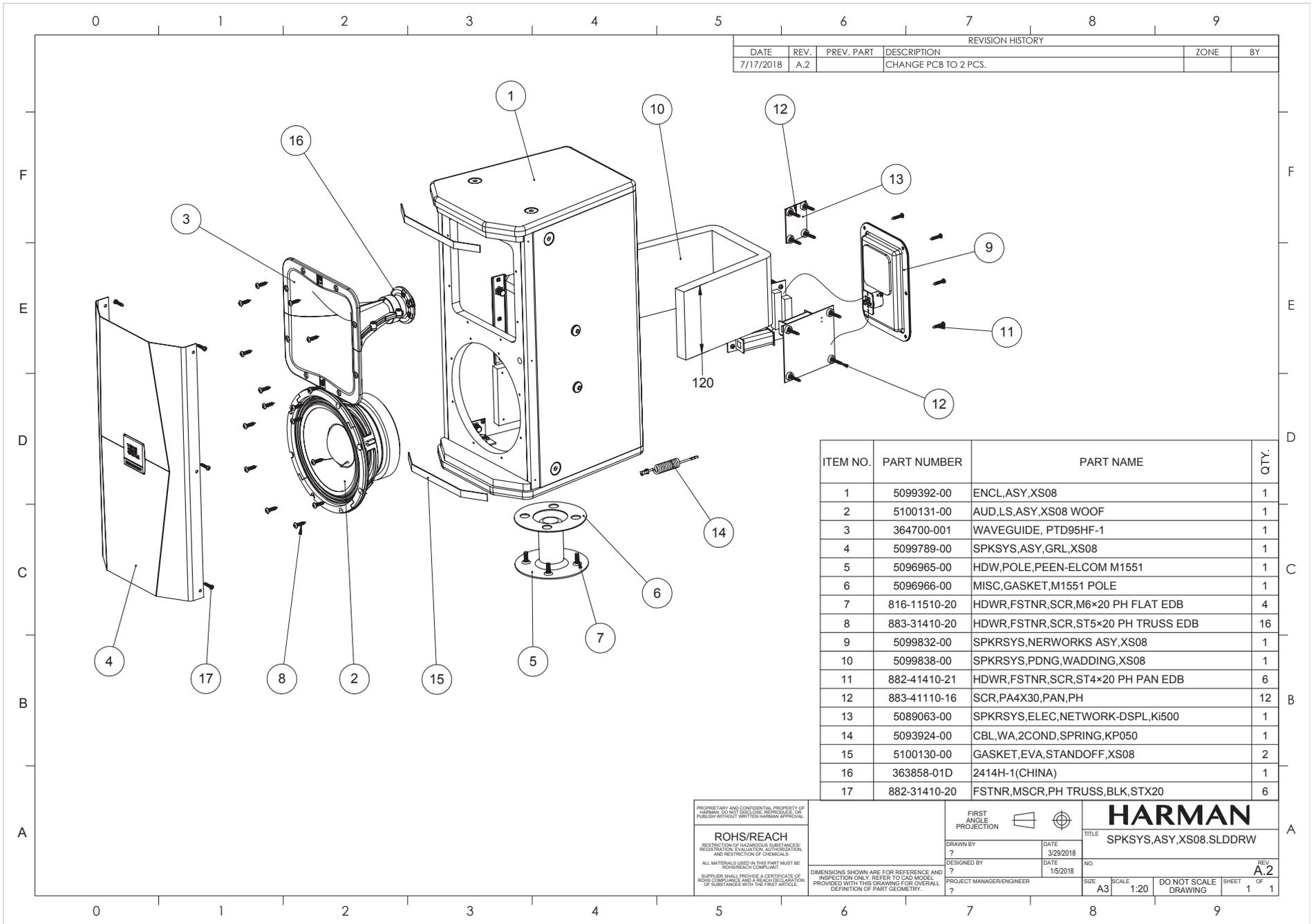
Beamwidth:



Dimensions:

Dimensions in mm (inch)

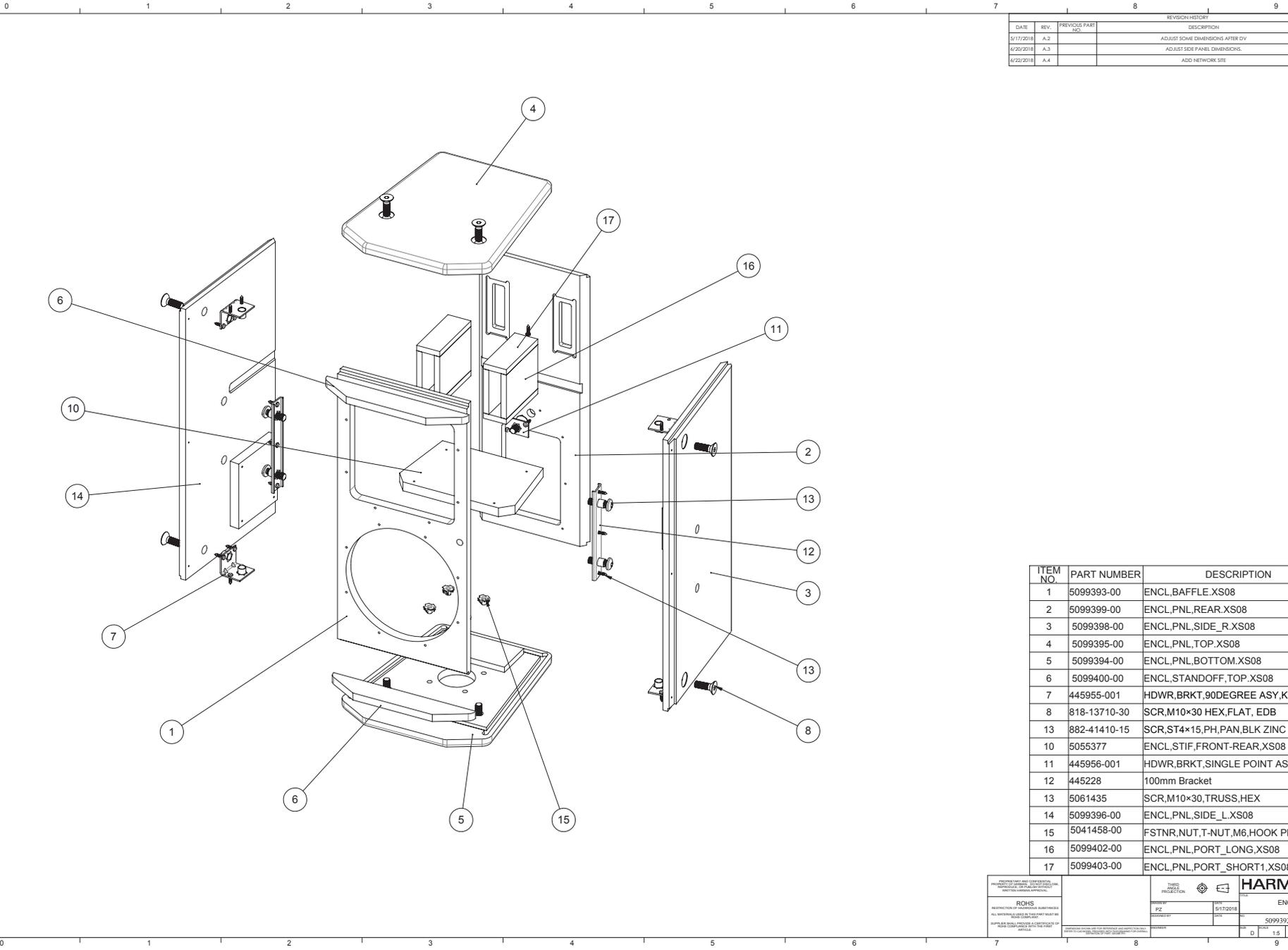




REVISION HISTORY				ZONE	BY
DATE	REV.	PREV. PART	DESCRIPTION		
7/17/2018	A.2		CHANGE PCB TO 2 PCS.		

ITEM NO.	PART NUMBER	PART NAME	QTY.
1	5099392-00	ENCL,ASY,XS08	1
2	5100131-00	AUD,LS,ASY,XS08 WOOF	1
3	364700-001	WAVEGUIDE, PTD95HF-1	1
4	5099789-00	SPKRSYS,ASY,GRL,XS08	1
5	5096965-00	HDW,POLE,PEEN-ELCOM M1551	1
6	5096966-00	MISC,GASKET,M1551 POLE	1
7	816-11510-20	HDWR,FSTNR,SCR,M6*20 PH FLAT EDB	4
8	883-31410-20	HDWR,FSTNR,SCR,ST5*20 PH TRUSS EDB	16
9	5099832-00	SPKRSYS,NETWORKS ASY,XS08	1
10	5099838-00	SPKRSYS,PDNG,WADDING,XS08	1
11	882-41410-21	HDWR,FSTNR,SCR,ST4*20 PH PAN EDB	6
12	883-41110-16	SCR,PA4X30,PAN,PH	12
13	5089063-00	SPKRSYS,ELEC,NETWORK-DSPL,KI500	1
14	5093924-00	CBL,WA,2COND,SPRING,KP050	1
15	5100130-00	GASKET,EVA,STANDOFF,XS08	2
16	363858-01D	2414H-1(CHINA)	1
17	882-31410-20	FSTNR,MSCR,PH TRUSS,BLK,STX20	6

<p>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 REACH DECLARATION OF SUBSTANCES WITH THE FIRST ARTICLE.</p>	<p>FIRST ANGLE PROJECTION</p>	<p>HARMAN</p>	
	<p>DRAWN BY ?</p>	<p>DATE 3/29/2018</p>	<p>TITLE SPKRSYS,ASY,XS08.SLDDRW</p>
<p>DESIGNED BY ?</p>	<p>DATE 1/5/2018</p>	<p>NO.</p>	<p>REV. A.2</p>
<p>PROJECT MANAGER/ENGINEER ?</p>	<p>DIMENSIONS SHOWN ARE FOR REFERENCE AND INSPECTION ONLY. REFER TO CAD MODEL PROVIDED WITH THIS DRAWING FOR OVERALL DEFINITION OF PART GEOMETRY.</p>	<p>SIZE A3</p>	<p>SCALE 1:20</p>
		<p>DO NOT SCALE DRAWING</p>	<p>SHEET 1 OF 1</p>

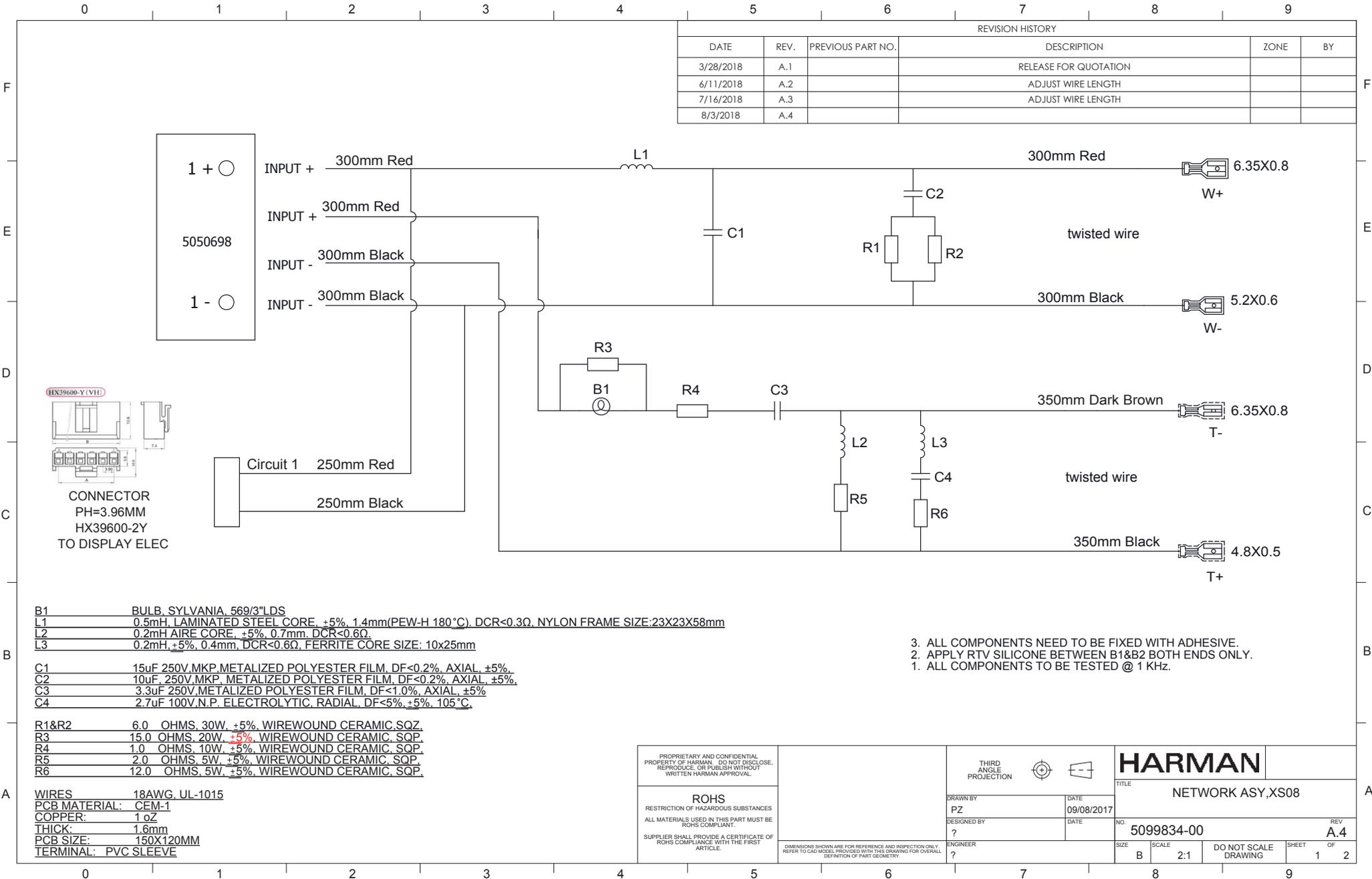


REVISION HISTORY			
DATE	REV.	PREVIOUS PART NO.	DESCRIPTION
5/17/2018	A-2		ADJUST SOME DIMENSIONS AFTER DV
6/20/2018	A-3		ADJUST SIDE PANEL DIMENSIONS
6/22/2018	A-4		ADD NETWORK SITE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	5099393-00	ENCL,BAFFLE.XS08	1
2	5099399-00	ENCL,PNL,REAR.XS08	1
3	5099398-00	ENCL,PNL,SIDE_R.XS08	1
4	5099395-00	ENCL,PNL,TOP.XS08	1
5	5099394-00	ENCL,PNL,BOTTOM.XS08	1
6	5099400-00	ENCL,STANDOFF,TOP.XS08	2
7	445955-001	HDWR,BRKT,90DEGREE ASY,KP600	4
8	818-13710-30	SCR,M10*30 HEX,FLAT, EDB	9
13	882-41410-15	SCR,ST4*15,PH,PAN,BLK ZINC	24
10	5055377	ENCL,STIF,FRONT-REAR,XS08	1
11	445956-001	HDWR,BRKT,SINGLE POINT ASY,KP600	1
12	445228	100mm Bracket	2
13	5061435	SCR,M10*30,TRUSS,HEX	4
14	5099396-00	ENCL,PNL,SIDE_L.XS08	1
15	5041458-00	FSTNR,NUT,T-NUT,M6,HOOK PRONG	4
16	5099402-00	ENCL,PNL,PORT_LONG,XS08	4
17	5099403-00	ENCL,PNL,PORT_SHORT1,XS08	4

ROHS RESTRICTION OF HAZARDOUS SUBSTANCES ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE BY THIS CODE OR BY THE TERMS OF ANY APPLICABLE	THIRD PARTY PROJECTION DATE: 5/17/2018 BY: PZ	HARMAN ENCL,ASY,XS08 PART NO: 5099392-00 REV: A.4
	SHEET 1 OF 2 SCALE: 1:5 DIM. UNIT: MM	1 2 3 4 5 6 7 8 9 10 11 12

Network Assembly Diagram



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