



POWERED SPEAKER SYSTEM

POWERED LOUDSPEAKER

DXR 15 mk3

DXR 12 mk3

DXR 10 mk3

POWERED SUBWOOFER

DXS 18 mk3

DXS 15 mk3

DXS 12 mk3

Reference

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Function Tree

Function	Category	Parameter, display content	Default value	Setting range	DXRmk3	DXSmk3
HOME	DEVICE NAME	Displays the device name.	-	-	●	●
	ICON	• The panel lock function is operating.	-	-	●	●
		• Bluetooth Audio is connected.	-	-	●	●
		• An app is connected via Bluetooth.	-	-	●	●
	INPUT METER, PEAK INDICATOR	Displays the level meter and peak indicator for the INPUT connector.	-	-60 dB to 0 dB	●	●
		INPUT LEVEL	Displays and changes the INPUT LEVEL setting value.	0 dB	-∞ to +10 dB	●
	AUTO MIC EQ INDICATOR	The AUTO MIC EQ function is operating.	-	Displays the microphone icon while the function is operating.	●	●
	DUCKER INDICATOR	Green when DUCKER is on, and orange when the effect is applied.	-	OFF: Gray, ON: Green, Active: Orange	●	●
	OUTPUT METER, PEAK INDICATOR	Displays the level meter and peak indicator for the OUTPUT connector.	-	-60 dB to 0 dB	●	●
		OUTPUT LEVEL	Displays and changes the OUTPUT LEVEL setting value.	0 dB	-∞ to +10 dB	●
	MAIN METER	Displays the MAIN level meter.	-	-60 dB to 0 dB	●	●
	MAIN LEVEL	Displays and changes the MAIN level setting value.	0 dB	-∞ to +10 dB	●	●
	MAIN MUTE	Displayed when the main MUTE is ON.	OFF	OFF, MUTED	●	●
	LIMIT INDICATOR	Displayed when the limiter is applied.	-	Normal: Gray, Active: Red	●	●
FBS INDICATOR	Green when FBS is on, and orange when the effect is applied.	-	OFF: Gray, ON: Green, Active: Orange	●	●	
INFORMATION	Displayed when a problem occurs with the speaker unit.	-	PROTECT, THERMAL, ALERT	●	●	
PRESET NO., PRESET TITLE EDIT INDICATOR	Displays the preset number and title. If the settings are changed after a preset is recalled, © will be displayed.	0: INITIAL DATA	0: INITIAL DATA A to ...: Factory preset 1 to 8: User preset	●	●	
INPUT	HPF (IN2)	HPF ON	OFF	OFF, ON	●	●
		FREQ	80 Hz	20 Hz to 800 Hz	●	●
		SLOPE	12 dB/Oct	6 dB/Oct, 12 dB/Oct	●	●
	4BAND EQ (IN2)	EQ ON	ON	OFF, ON	●	●
		BYPASS	OFF	OFF, ON	●	●
		FREQ	<By band>	20 Hz to 20 kHz	●	●
		GAIN	0 dB	± 10.0 dB	●	●
		Q	10 to 0.7	1.0	●	●
		TYPE	<By band>	PEQ, LO SHELF 6 dB, LO SHELF 12 dB, HI SHELF 6 dB, HI SHELF 12 dB, HPF, LPF	●	●
	AUTO MIC EQ	←	ON	OFF, ON	●	●
	FBS	ON (DYNAMIC)	OFF	OFF, ON	●	●
		Q (DYNAMIC)	NARROW	NARROW, WIDE	●	●
		ON (FIXED)	OFF	OFF, ON	●	●
		Q (FIXED)	NARROW	NARROW, WIDE	●	●
		DETECT	-	-	●	●
		TARGET (IN1, IN2)	ON	OFF, ON	●	●
		DETECTED FBS POINTS (FIXED)	-	-	●	●

Function	Category	Parameter, display content	Default value	Setting range	DXRmk3	DXSmk3	
MAIN	DUCKER	ON/OFF	OFF	OFF, ON	●		
		THRESHOLD, INDICATOR	-38 dB	-54 dB to 0 dB	●		
		RANGE	-30 dB	-60 dB to 0 dB	●		
		HOLD	1.02 sec	100 msec to 1.96 sec	●		
		RELEASE	1.34 sec	296 msec to 6.94 sec	●		
		TARGET (IN2, BT IN)	ON	OFF, ON	●		
		INPUT METER	-	-60 dB to 0 dB	●		
		GR Meter	-	-36 dB to 0 dB	●		
	X-OVER	ON (HPF)	OFF	OFF, ON	●		
		FREQ. (HPF)	50 Hz	50 Hz to 118 Hz	●		
		TYPE (HPF)	24 dB BUT	12 dB BUT, 12 dB L-R, 18 dB BUT, 24 dB BUT, 24 dB L-R, 36 dB BUT, 48 dB BUT, 48 dB L-R	●		
		ON (LPF)	ON	Fixed		●	
		FREQ. (LPF)	118 Hz	50 Hz to 118 Hz		●	
		TYPE (LPF)	24 dB BUT	12 dB BUT, 12 dB L-R, 18 dB BUT, 24 dB BUT, 24 dB L-R, 36 dB BUT, 48 dB BUT, 48 dB L-R		●	
		POLARITY	NORMAL	NORMAL, INVERTED		●	
		6 BAND EQ	EQ ON	ON	OFF, ON	●	●
			BYPASS	OFF	OFF, ON	●	●
			FREQ	<By band>	20 Hz to 20 kHz	●	●
			GAIN	0 dB	±10.0 dB	●	●
			Q	10 to 0.7	1.0	●	●
			TYPE	PEQ	PEQ, LO SHELF 6 dB, LO SHELF 12 dB, HI SHELF 6 dB, HI SHELF 12 dB, HPF, LPF	●	●
DELAY	ON/OFF	ON	OFF, ON	●	●		
	TIME	0 msec	0 to 300 msec	●	●		
	DISTANCE (METER)	0 meter	0 to 103.0 meter	●	●		
	DISTANCE (FEET)	0 feet	0 to 338.2 feet	●	●		
DSP MODE (D-MODE)	MODE	FOH/MAIN	OFF (NORMAL) , FOH/MAIN, MONITOR	●			
	AUTO V/H POSITION	OFF	OFF, ON	●			
D-XSUB	MODE	NORMAL	NORMAL, XTENDED LF		●		
CARDIOID	MODE	OMNI (FRONT)	OMNI (FRONT), CARDIO-2 (REAR), CARDIO-3 (REAR)		●		

Function	Category	Parameter, display content	Default value	Setting range	DXRmk3	DXSmk3
OUTPUT	POST EQ	←	OFF	OFF, ON	●	●
	X-OVER	ON (LPF)	OFF	OFF, ON	●	
		FREQ. (LPF)	50 Hz	50 Hz to 118 Hz	●	
		TYPE (LPF)	24 dB BUT	12 dB BUT, 12 dB L-R, 18 dB BUT, 24 dB BUT, 24 dB L-R, 36 dB BUT, 48 dB BUT, 48 dB L-R	●	
		ON (HPF)	OFF	OFF, ON		●
		FREQ. (HPF)	118 Hz	50 Hz to 118 Hz		●
		TYPE (HPF)	24 dB BUT	12 dB BUT, 12 dB L-R, 18 dB BUT, 24 dB BUT, 24 dB L-R, 36 dB BUT, 48 dB BUT, 48 dB L-R		●
	DELAY	ON/OFF	ON	OFF, ON	●	●
		TIME	0 msec	0 to 10.0 msec	●	●
		DISTANCE (METER)	0 meter	0 to 3.44 meter	●	●
		DISTANCE (FEET)	0 feet	0 to 11.3 feet	●	●
	UTILITY	DEVICE INFORMATION	DEVICE NAME	-	-	●
VERSION			-	-	●	●
THERMAL (AMP)			-	-	●	●
BLUETOOTH SETUP		DEVICE NAME	-	-	●	●
		ENABLE	ENABLE	DISABLE, ENABLE	●	●
		IDENTIFY	-	-	●	●
		PAIRING (AUDIO)	-	-	●	●
		SEARCH (AUDIO)	-	-	●	●
LINK MODE		LINK MODE (DXRmk3)	MONO	MONO, STEREO	●	
		LINK MODE (DXSmk3)	MONO	MONO, STEREO (2.1), STEREO (2.2)		●
PANEL SETUP		BRIGHTNESS	6	1 to 10	●	●
		AUTO DIMMER TIME	30 min	10 sec, 30 sec, 1 min, 3 min, 30 min, NEVER	●	●
		DIMMER RATIO	25%	0%, 25%, 50%, 75%	●	●
		AUTO LOCK TIME	NEVER	10 sec, 30 sec, 1 min, 3 min, 30 min, NEVER	●	●
		LOCK MODE	PARTIAL	PARTIAL, ALL	●	●
		ENABLE UNLOCK PIN	OFF	OFF, ON	●	●
INITIALIZE		-	-	CURRENT SETTINGS, PRESETS, BLUETOOTH SETTINGS	●	●
LOG		LOG LIST	-	-	●	●
		DETAIL VIEW	-	-	●	●
MANUAL		USER GUIDE	-	-	●	●
MAINTENANCE		INITIALIZE	-	-	RESET ALL, KEEP BLUETOOTH, KEEP PRESETS	●
	RESET CURRENT MEMORY	-	-	-	●	●
	SOUND CHECK	LEVEL	-∞ dB	-∞ to 0 dB	●	●
	FIRMWARE VERSION	-	-	-	●	●

Message List

Number	Message	Symptom	Countermeasure
0 to 9	SYSTEM ERROR	The product is not starting up properly.	The product may be faulty. Contact your Yamaha dealer.
10	AMP MUTED-DC OUTPUT	The DC output of the amplifier has been detected, so the product has been shut down.	
11	LF OVER-TEMPERATURE LEVEL 1	The amplifier (LF) has become too hot, so the output limiter has been applied.	Use the product with a lower output level, or wait until the amplifier cools down. Also, avoid direct sunlight on the rear panel and ensure good ventilation around the rear panel.
12	LF OVER-TEMPERATURE LEVEL 2		
13	LF OVER-TEMPERATURE LEVEL 3		Wait until the amplifier cools down. Also, avoid direct sunlight on the rear panel and ensure good ventilation around the rear panel.
14	HF OVER-TEMPERATURE LEVEL 1	The amplifier (HF) has become too hot, so the output limiter has been applied.	Use the product with a lower output level, or wait until the amplifier cools down. Also, avoid direct sunlight on the rear panel and ensure good ventilation around the rear panel.
15	HF OVER-TEMPERATURE LEVEL 2		
16	HF OVER-TEMPERATURE LEVEL 3		Wait until the amplifier cools down. Also, avoid direct sunlight on the rear panel and ensure good ventilation around the rear panel.
17	AMP OUTPUT CURRENT LIMIT	The circuit is protected from the excessive output current of the amplifier.	Turn the power off once, wait at least six seconds, and then turn it back on. If the problem persists, the product may be faulty. Contact your Yamaha dealer.
18	LF GAIN REDUCED	The amplifier (LF) temperature has risen, so the output level has been reduced.	Wait until the amplifier cools down. If the symptom does not improve even after the amplifier has cooled down, the product may be faulty. Contact your Yamaha dealer.
19	HF GAIN REDUCED	The amplifier (HF) temperature has risen, so the output level has been reduced.	
20	LF AMP MUTED	The amplifier (LF) temperature has risen, so the output has been muted.	
21	HF AMP MUTED	The amplifier (HF) has risen, so the output has been muted.	
22	AMP SHUT DOWN	The amplifier temperature has risen, so the product has been shut down.	
30	BLUETOOTH HARDWARE ERROR	Bluetooth is not working properly.	Turn the power off once, wait at least six seconds, and then turn it back on. If the problem persists, the product may be faulty. Contact your Yamaha dealer.
31	POSITION SENSOR ERROR	The angle cannot be detected correctly.	
50	POWER ON	The power has been turned on.	-
51	POWER OFF	The power has been turned off.	-
52	MOMENTARY POWER INTERRUPTION DETECTED	A momentary power interruption has been detected.	Connect to a stable power source.
53	DEVICE INITIALIZED	Initialization has been completed.	-
54	TIME SYNCHRONIZED	The time has been synchronized with the control application.	-
55	FIRMWARE UPDATED	The firmware has been updated.	-
56	[*] : PRESET STORE	A preset has been stored (*: preset number).	-
57	[*] : PRESET RECALL	A preset has been recalled (*: preset number).	-
58	PANEL UNLOCKED	The panel is now unlocked.	-
59	PIN CODE CHANGED	The PIN code has been changed.	-
60	INCORRECT PIN CODE	An incorrect PIN code was entered.	-

Number	Message	Symptom	Countermeasure
61	BLUETOOTH AUDIO CONNECTED	Bluetooth Audio has been connected.	-
62	BLUETOOTH AUDIO DISCONNECTED	Bluetooth Audio has been disconnected.	-
63	INCORRECT CONNECTION PASSWORD	Authentication of the control application has failed.	-
64	CONTROL APP CONNECTED	The control application has been connected.	-
65	CONTROL APP DISCONNECTED	The control application has been disconnected.	-
66	SWITCHED TO MONITOR MODE	The product was detected as being placed horizontally, so the DSP MODE was changed to MONITOR.	-
67	SWITCHED TO FOH/MAIN MODE	The product was detected as being placed vertically, so the DSP MODE was changed to FOH/MAIN.	-
68	SWITCHED TO MIC EQ SETTING	The status of the MIC/LINE switch was detected, so the IN2's EQ setting was changed to that for MIC.	-
69	SWITCHED TO LINE EQ SETTING	The status of the MIC/LINE switch was detected, so the IN2's EQ setting was changed to that for LINE.	-

Specifications

General specifications	DXR15mk3	DXR12mk3	DXR10mk3	DXS18mk3	DXS15mk3	DXS12mk3
Speaker Type	2-way, Bi-amped Powered Speaker, Bass-reflex			Powered subwoofer, band-pass		
Frequency Range (-10 dB)	46 Hz to 20 kHz	50 Hz to 20 kHz	53 Hz to 20 kHz	32 Hz to 120 Hz	35 Hz to 140 Hz	38 Hz to 140 Hz
Coverage Angle (Horizontal × Vertical)	90° × 60°	90° × 60°	90° × 60°	-		
Crossover Frequency, Type	1.8 kHz	1.8 kHz	1.8 kHz	-		
	FIR-X tuning™ (Linear Phase FIR Filter)			-		
Maximum SPL (Measured peak SPL, PINK noise, 1 m)	134 dB SPL	134 dB SPL	132 dB SPL	134 dB SPL *1	133 dB SPL *1	132 dB SPL *1
Power Requirements	100 V to 120 V 50/60 Hz, 220 V to 240 V 50/60 Hz					
Power Consumption	Idle	35 W		40 W		
	1/8 Power	120 W		130 W		
Dimensions (W × H × D)	447 × 699 × 380 mm	366 × 600 × 350 mm	310 × 502 × 310 mm	563 × 683 × 721 mm	480 × 611 × 614 mm	400 × 567 × 570 mm
Net Weight	21.0 kg	17.4 kg	14.5 kg	51.0 kg	37.0 kg	33.0 kg
Floor Monitor Angle	52°	52°	55°	-		

Speaker section	DXR15mk3	DXR12mk3	DXR10mk3	DXS18mk3	DXS15mk3	DXS12mk3	
Transducers	LF	15" Cone 3" Voice coil	12" Cone 2.5" Voice coil	10" Cone 2.5" Voice coil	18" Cone 4" Voice coil	15" Cone 3" Voice coil	12" Cone 3" Voice coil
	HF	1.75" Diaphragm 1" Throat Compression Driver			-		
Material, Finish, Color	Plastic, Black			Plywood, Polyurea coating, Black			
Grille	Matte black powder coated perforated steel grille, t=1.2 mm						
Handles	Side × 2		Top × 1	Wood, Side × 2			
Pole Socket	ø 35 mm × 2 (0 and -7 degree)			ø 35 mm (Depth 80 mm), M20 (Threaded depth 25 mm)			
Rigging Points	Top × 2, Rear × 1 (Fit for M10 × 18 mm Eye-bolts), Bottom × 2, Side × 2 (Fit for M8 × 25 mm UB-DXR15A)	Top × 2, Rear × 1 (Fit for M10 × 18 mm Eye-bolts), Bottom × 2, Side × 2 (Fit for M8 × 25 mm UB-DXR12A)	Top × 2, Rear × 1 (Fit for M8 × 15 mm Eye-bolts), Bottom × 2, Side × 2 (Fit for M8 × 25 mm UB-DXR10A)	-			

Amplifier section		DXR15mk3	DXR12mk3	DXR10mk3	DXS18mk3	DXS15mk3	DXS12mk3
Amplifier class		Class-D					
Power Rating	PEAK	2,000 W (LF: 1,700 W, HF: 300 W)			2,500 W		
	RMS	1,000 W (LF: 850 W, HF: 150 W)			1,250 W		
Cooling		Fan Cooling, 5 Speeds					
AD/DA		32 bit/96 kHz Sampling					
HPF/LPH		OFF, 50 Hz to 118 Hz, 12 dB to 48 dB/Oct.					
HPF Type/LPF Type		Butterworth, Linkwitz					
DSP Mode		FOH/MAIN, MONITOR, OFF			NORMAL, XTENDED LF		
Protection	Speaker	Output over voltage, Integral Power Protection, DC-fault					
	Amplifier	Thermal, Output over current					
	Power Supply	Thermal, Output over voltage, Output over current					
Connectors	Input	Input1: Combo × 1, Input2: Combo × 1					
	Output	Output1: XLR3-32 THRU, Output2: XLR3-32 THRU or DSP OUT			Output1: XLR3-32 THRU or DSP OUT, Output2: XLR3-32 THRU or DSP OUT		
	Power Supply	IEC AC inlet × 1 (V-Lock)					
Input Impedance		INPUT1: 20 kΩ (balance) 10 kΩ (unbalance), INPUT2: 6 kΩ (balance) 3 kΩ (unbalance)			INPUT1/INPUT2: 20 kΩ (balance) 10 kΩ (unbalance)		
Input Sensitivity (LEVEL: Maximum)		INPUT1: +0 dBu, INPUT2: LINE: +0 dBu, MIC: -30 dBu			INPUT1/INPUT2: +0 dBu		
Input Sensitivity (LEVEL: Center)		INPUT1: +10 dBu, INPUT2: LINE: +10 dBu, MIC: -20 dBu			INPUT1/INPUT2: +10 dBu		
Maximum Input Level		INPUT1: +24 dBu, INPUT2: LINE: +24 dBu, MIC: -6 dBu			INPUT1/INPUT2: +24 dBu		
Controls		LEVEL × 2, LINE/MIC, THRU/DSP OUT, POWER			LEVEL × 2, THRU/DSP OUT, POWER		
Indicators		POWER (Green)					
Bluetooth		Profile: A2DP Codec: AAC, SBC Version: 5.0 Contents protection method: SCMS-T Wireless output: Bluetooth Class1 Transmission frequencies: 2,402 MHz to 2,480 MHz					
Temperature range	Operation	Min 0°C to Max 40°C					
	Storage	Min -20°C to Max 60°C					
AC cord	Length	2,500 mm ± 50 mm					

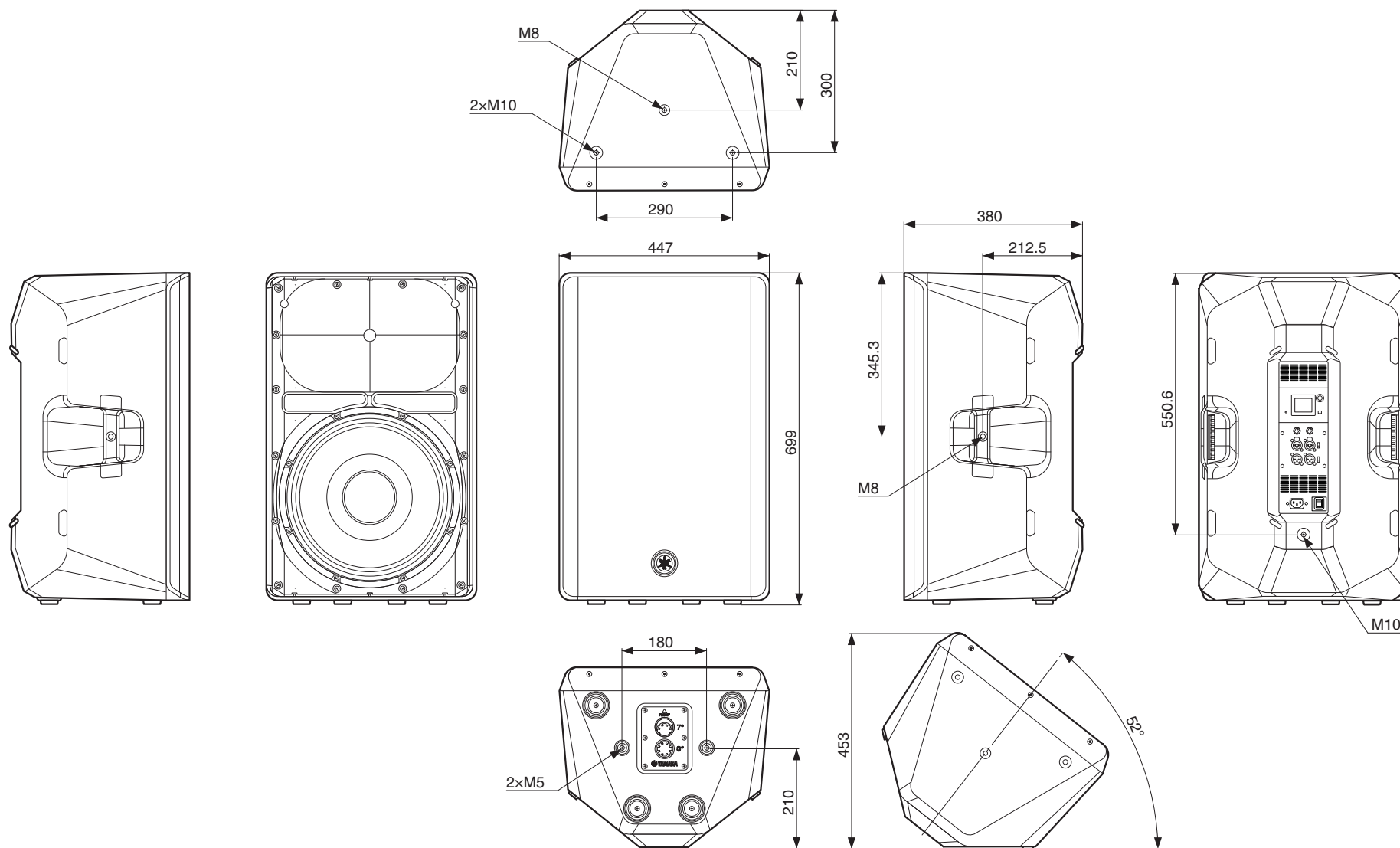
Accessories		DXR15mk3	DXR12mk3	DXR10mk3	DXS18mk3	DXS15mk3	DXS12mk3
Package Contents		Read This First, Power cord × 1					
Optional Accessories	Speaker Cover	SPCVR-DXR153	SPCVR-DXR123	SPCVR-DXR103	SPCVR-DXS183	SPCVR-DXS153	SPCVR-DXS123
	U-Bracket	UB-DXR15A	UB-DXR12A	UB-DXR10A		-	
	Wheels		-			SPW-1	

*1 Half-space (2π)

* The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file.

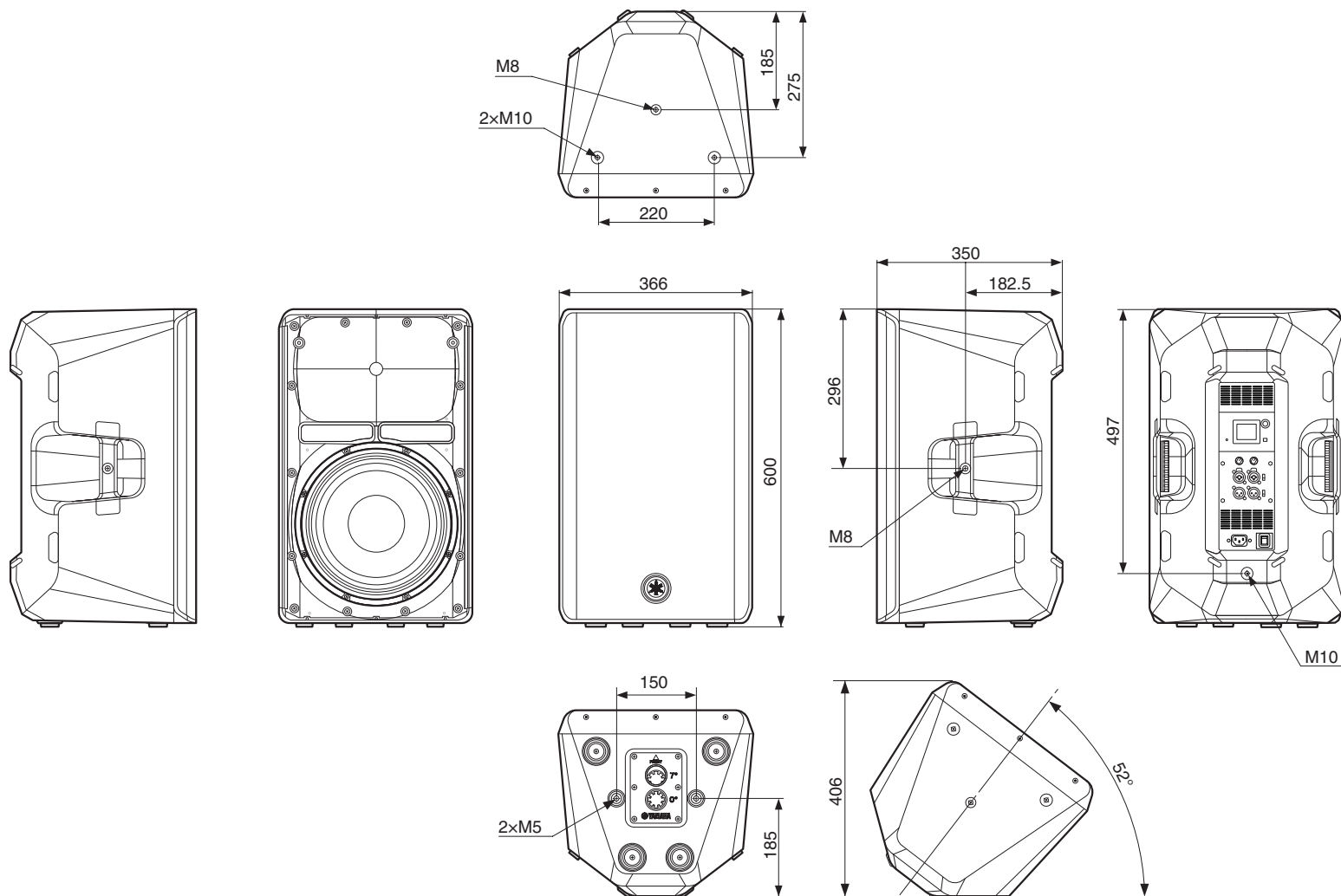
Dimensions

■DXR15mk3



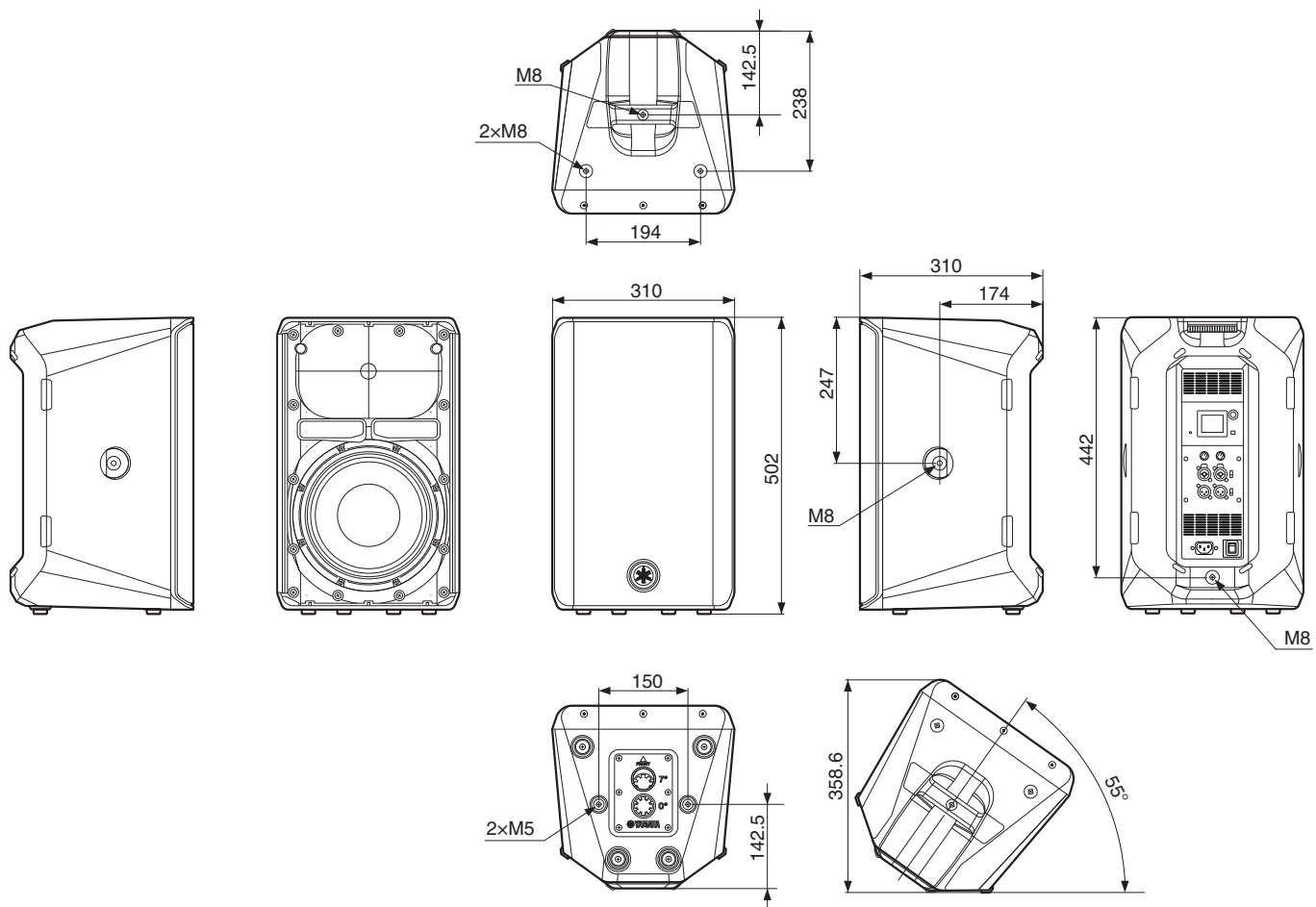
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■DXR12mk3



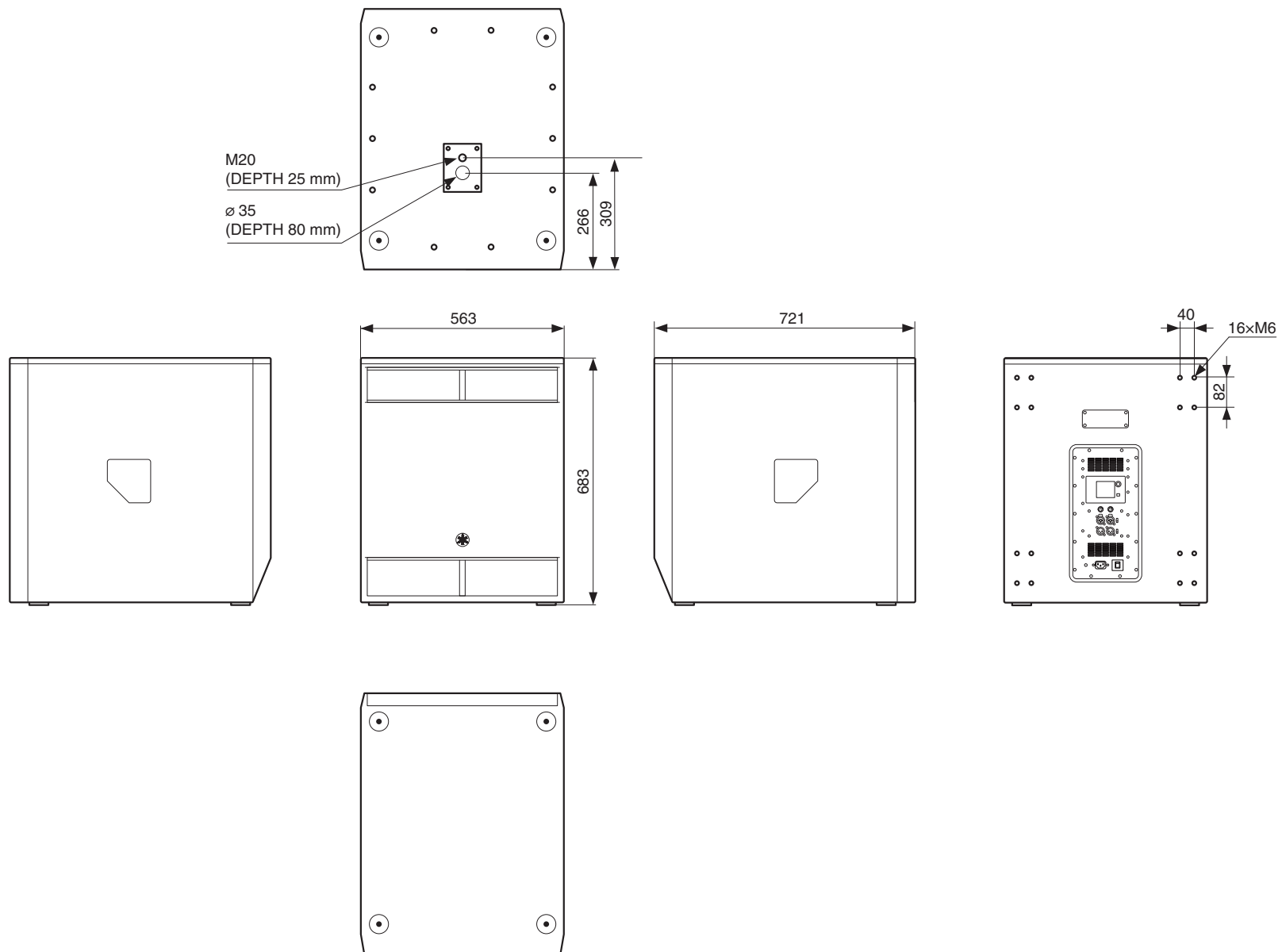
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■DXR10mk3



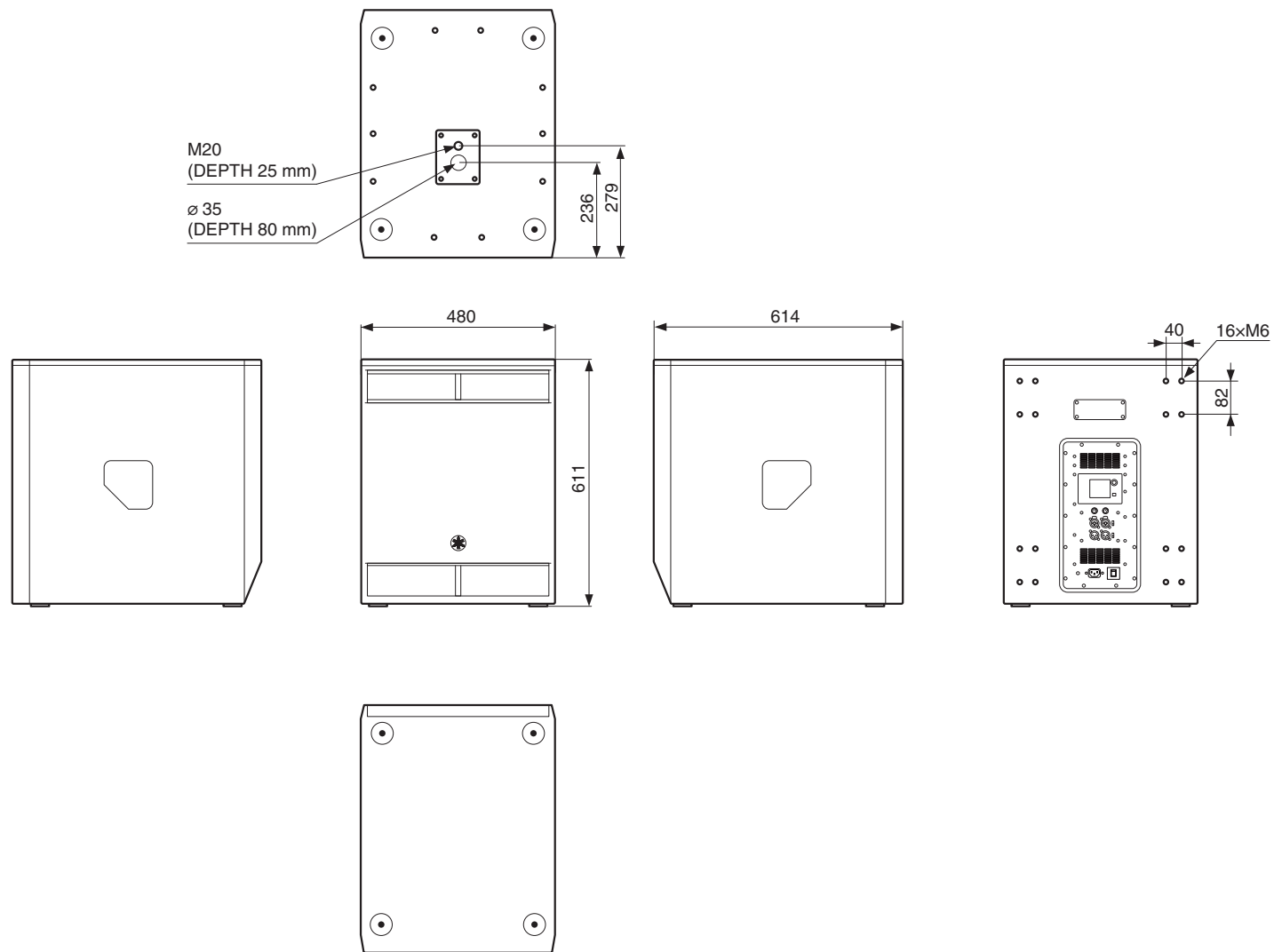
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■DXS18mk3



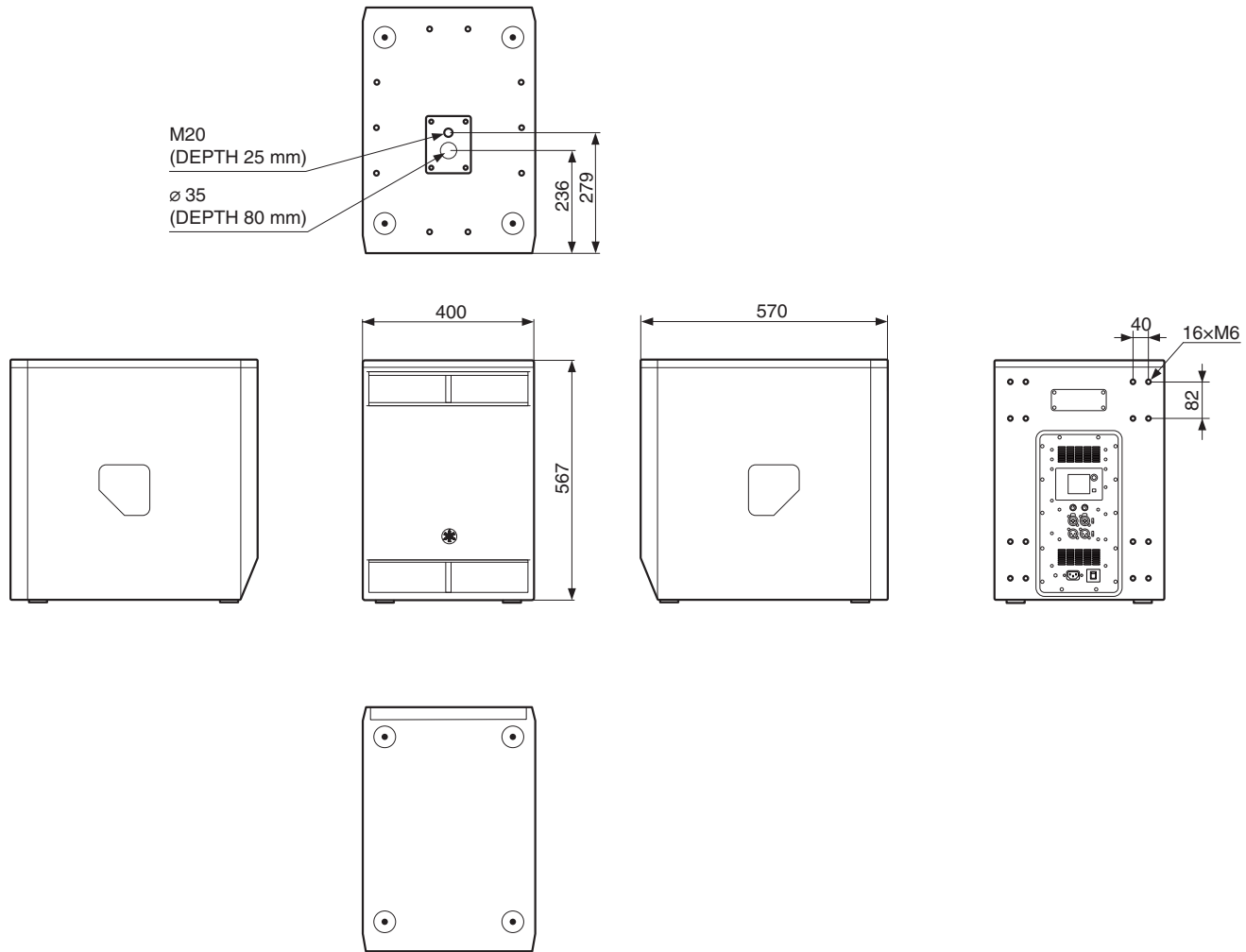
Unit: mm

■DXS15mk3



Unit: mm

■DXS12mk3



Unit: mm

Block Diagram

■DXRmk3

