SB ACOUSTICS

Sasandu-TX | User Manual

Technical Specifications :

Frequency range	: 32-32000 Hz +3/-6 dB
Sensitivity (2.83V / 1m)	: 89 dB
Nominal impedance	: 4Ω
Max SPL	: 108 dB
Recommended amplifier	: 100-200 W
Cross-over frequencies	: 400 Hz & 2800 Hz
Speaker type	: 3-way Floor Stand
Enclosure type	: Bass reflex (woofers), sealed (midrange)
Port tuning frequency	: 32 Hz

Drive Units:

- High frequency driver	SATORI TW29TXN-B-8 (Textreme Tweeter)
- Mid frequency driver	6½" SATORI MW16TX-4 (advanced midrange)
- Low frequency drivers	2 x 7½" SATORI MW19TX-8 (advanced midwoofer)

Cabinet:

15mm, 18mm, 25 mm MDF

Dimensions (H x W x D)	: 1100 x 230 x 615 mm / 43.30 x 9.05 x 24.21 inch
Port dimensions (inside)	: Ø75 x 150 mm (Ø3" x 6.1")

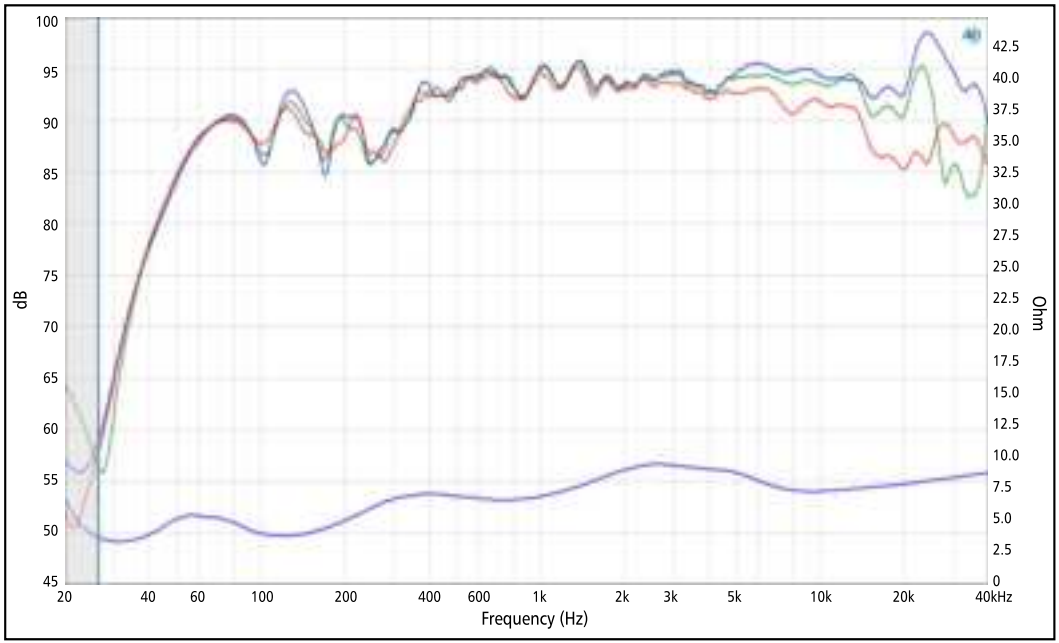
Net Weight (each):

- Cabinet only	: 28.5 kg / 62.83 lb
- Full assembly	: 33 kg / 72.75 lb

Special Features:

- Advanced high-end drivers.
- Non-parallel cabinet walls.
- Facets and optimized tweeter position for reduced diffraction.
- Slanted internal partition for reduction of standing waves.
- Inclined baffle for time alignment of drivers.
- Large low compression midrange cavity.
- Large low noise vent.
- Strategic internal bracing and damping.
- Solid single-wiring binding posts.

Frequency Response Sasandu-TX

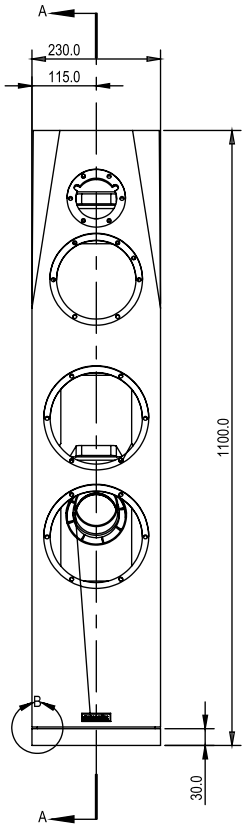


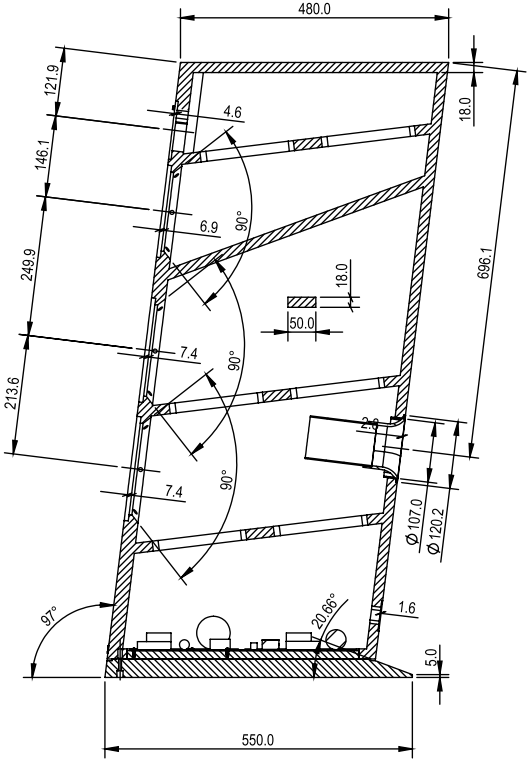
Response Curve :

(Blue) : on axis (Green) : 15° off-axis (Red) : 30° off-axis

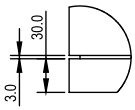
Measured on-axis, 15º and 30º at 1m in an ordinary room at bottom of tweeter faceplate. Lower frequency dips and peaks are caused by room modes/reflections

Mechanical Drawing (dimensions in mm)

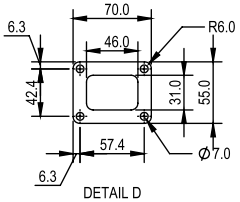




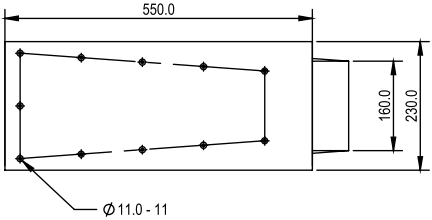
SECTION A-A
SCALE 1 : 8

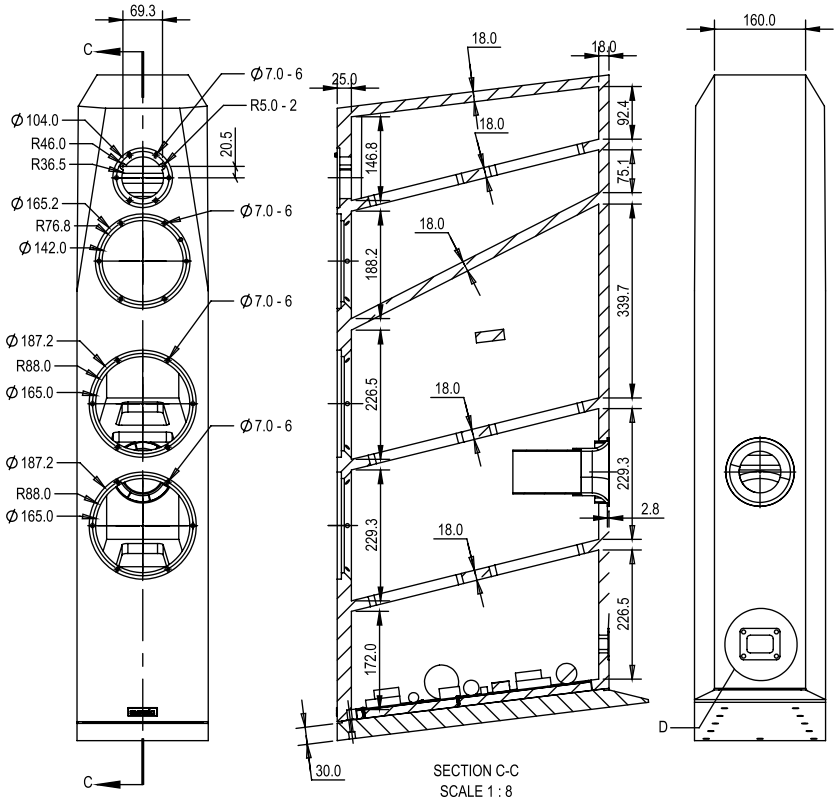


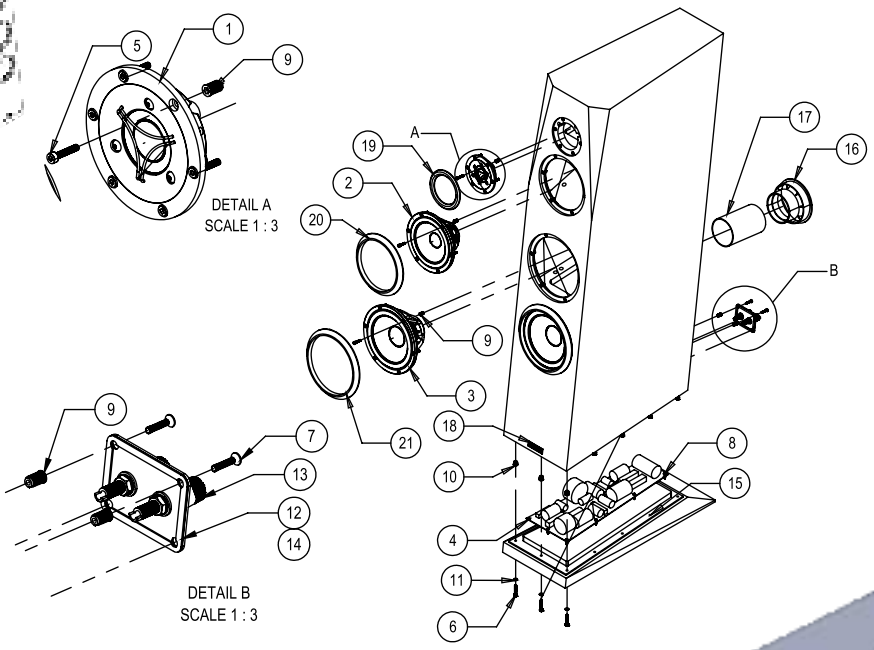
DETAIL B
SCALE 1 : 4



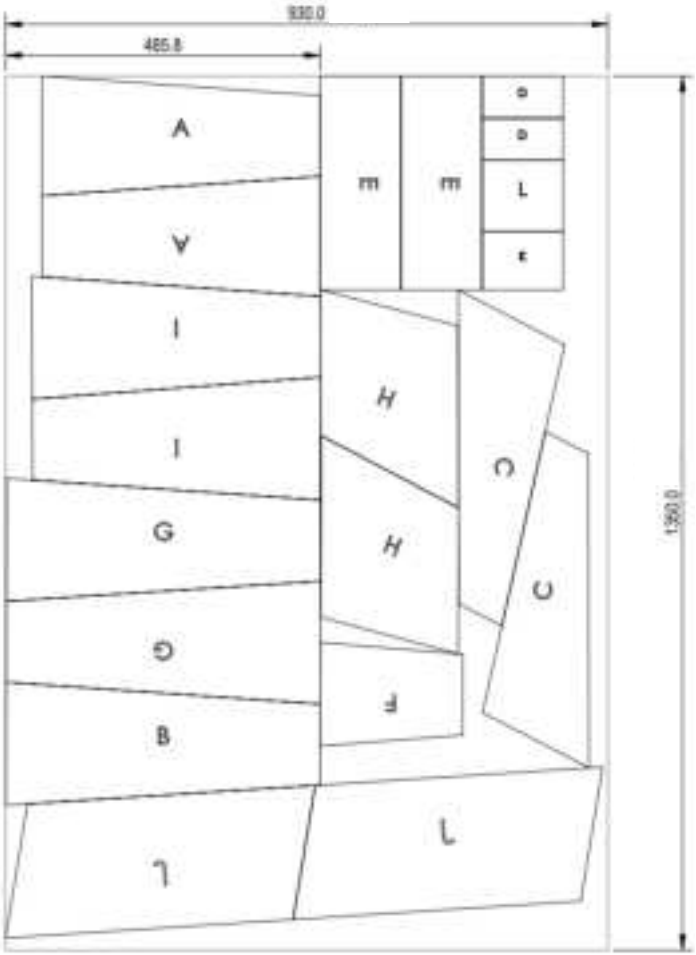
DETAIL D
SCALE 1 : 4



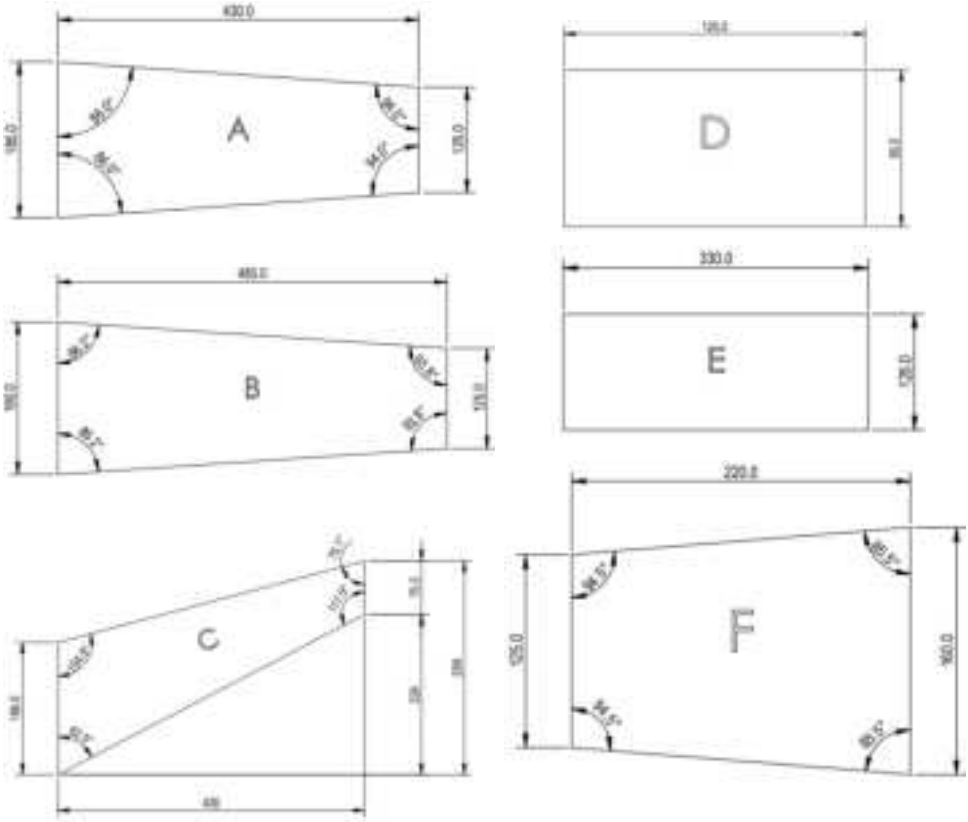

69.3
C
Ø7.0 - 6
R5.0 - 2
Ø104.0
R46.0
R36.5
20.5
Ø165.2
R76.8
Ø142.0
Ø7.0 - 6
Ø7.0 - 6
Ø187.2
R88.0
Ø165.0
Ø7.0 - 6
Ø187.2
R88.0
Ø165.0
C
25.0
18.0
18.0
18.0
18.0
18.0
18.0
146.8
188.2
226.5
229.3
172.0
92.4
75.1
339.7
229.3
2.8
226.5
30.0
SECTION C-C
SCALE 1 : 8
160.0
D



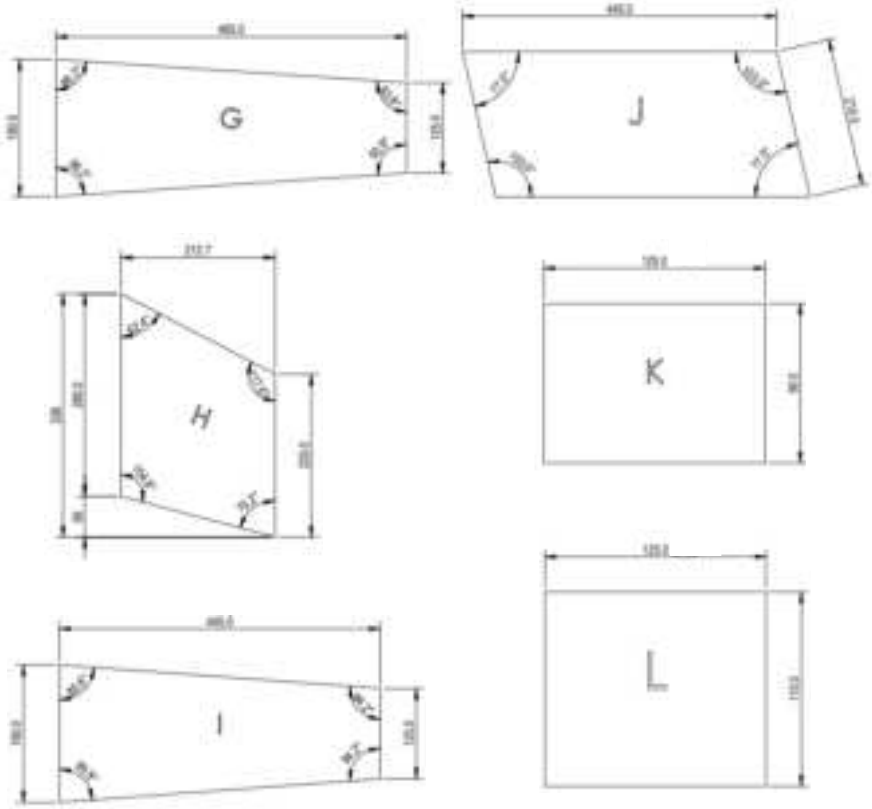
NO	PART NAME	QTY
1	HF driver SATORI TW29TXN-B-8 (sold separately)	1
2	MF driver 6½″ SATORI MW16TX-4 (sold separately)	1
3	LF driver 7½″ SATORI MW19TX-8 (sold separately)	2
4	Sasandu kit crossover (sold separately)	1
5	Hex socket screw M4 x 20mm (for drivers)	24
6	Hex socket screw M5 x 30mm (for pedestal)	11
7	Countersunk screw M4 x 20mm (for terminal plate)	4
8	Wood screw 4 x 16 mm for crossover (from crossover kit)	10
9	Insert nut M4 (installed)	28
10	Insert nut M5 (installed)	11
11	Washer Plate	11
12	Stainless Terminal plate	1
13	Binding post	1
14	Seal gasket (for terminal plate)	1
15	Seal gasket (for pedestal, installed on cabinet)	1
16	Port flare (installed on cabinet)	1
17	Port paper tube (installed on cabinet)	1
18	Name plate	1
19	Tweeter grille	1
20	Midrange grille	1
21	Woofer grille	2



NO.	PART NUMBER	DESCRIPTION	QTY.
1	A	DA-DACRON-(430x125x430x185)mm	2
2	B	DA-DACRON-(485x125x485x190)mm	1
3	C	DA-DACRON-(445x185x485x75)mm	2
4	D	DA-DACRON-(65x125)mm	2
5	E	DA-DACRON-(330x125)mm	2
6	F	DA-DACRON-(220x125x220x160)mm	1
7	G	DA-DACRON-(485x125x485x190)mm	2
8	H	DA-DACRON-(240x225x220x280)mm	2
9	I	DA-DACRON-(445x125x445x190)mm	2
10	J	DA-DACRON-(445x210x445x210)mm	2
11	K	DA-DACRON-(90x125)mm	1
12	L	DA-DACRON-(110x125)mm	1



NO.	PART NUMBER	DESCRIPTION	QTY.
1	A	DA-DACRON-(430x125x430x185)mm	2
2	B	DA-DACRON-(485x125x485x190)mm	1
3	C	DA-DACRON-(445x185x485x75)mm	2
4	D	DA-DACRON-(65x125)mm	2
5	E	DA-DACRON-(330x125)mm	2
6	F	DA-DACRON-(220x125x220x160)mm	1



NO.	PART NUMBER	DESCRIPTION	QTY.
7	G	DA-DACRON-(485x125x485x190)mm	2
8	H	DA-DACRON-(240x225x220x280)mm	2
9	I	DA-DACRON-(445x125x445x190)mm	2
10	J	DA-DACRON-(445x210x445x210)mm	2
11	K	DA-DACRON-(90x125)mm	1
12	L	DA-DACRON-(110x125)mm	1

Damping Material Position (dimensions in mm)

DAMPING MATERIAL A
Dacron 9oz White Color T20mm
Size: 430 x 125 x 430 x 185 mm
(2 layers covering the top brace behind tweeter)

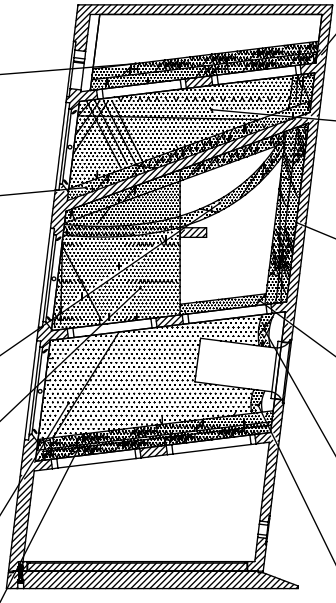
DAMPING MATERIAL B
Dacron 9oz White Color T20mm
Size : 485 x 125 x 485 x 190 mm
(1 layer on the partition (bottom
of midrange chamber))

DAMPING MATERIAL G
Dacron 9oz White Color T20mm
Size: 485 x 125 x 485 x 190 mm
(2 layers in top of upper section woofer chamber
(lower layer may rest on the brace between the
side walls as shown))

DAMPING MATERIAL H
Dacron 9oz White Color T20mm
Size: 240 x 225 x 220 x 280 mm
(1 layer on each side wall in front half
of upper section in woofer chamber)

DAMPING MATERIAL J
Dacron 9oz White Color T20mm
Size: 445 x 210 x 445 x 210 mm
(1 layer on each side in center section
of woofer chamber)

DAMPING MATERIAL I
Dacron 9oz White Color T20mm
Size: 445 x 125 x 445 x 210 mm
(2 layers on entire lower brace in
woofer chamber (must stay in place))



DAMPING MATERIAL D
Dacron 9oz White Color T20mm
Size: 65 x 125 mm
(2 layers on black wall of midrange
chamber (below the brace only))

DAMPING MATERIAL C
Dacron 9oz White Color T20mm
Size: 445 x 185 x 485 x 75 mm
(1 layer on each side in the midrange
chamber (below the brace only))

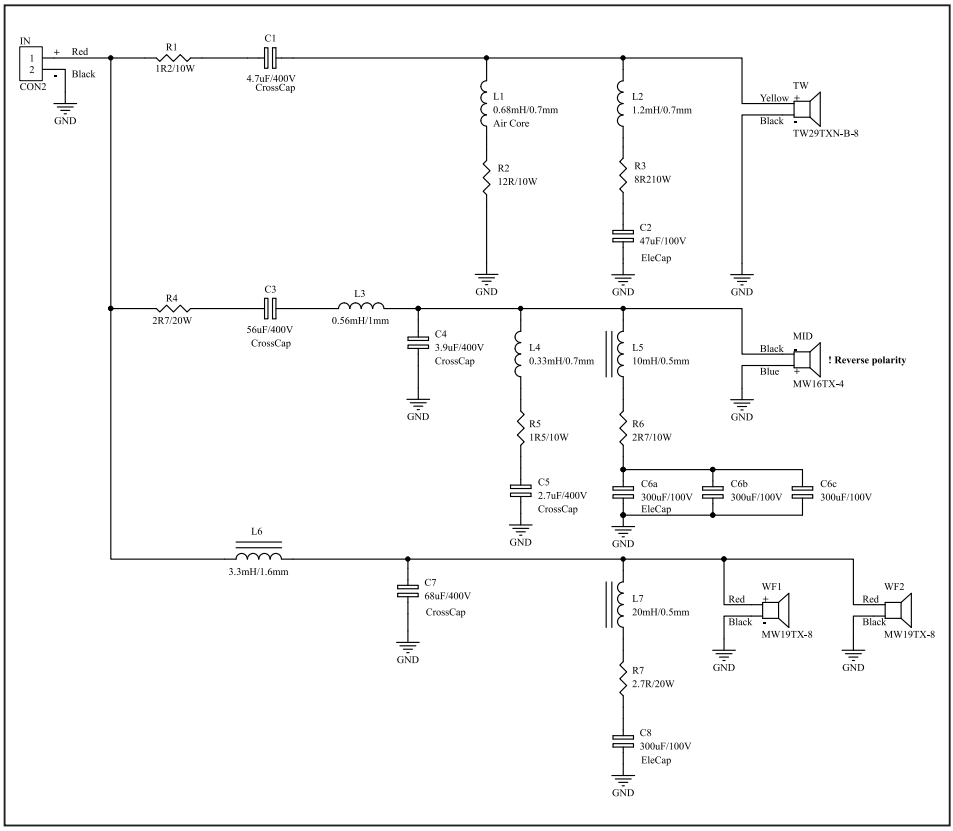
DAMPING MATERIAL E
Dacron 9oz White Color T20mm
Size: 330 x 125 mm
(2 layers on back wall in upper section
of woofer chamber)

DAMPING MATERIAL F
Dacron 9oz White Color T20mm
Size: 220 x 125 x 220 x 160 mm
(1 layer on back half of upper brace in upper
section of woofer chamber)

DAMPING MATERIAL L
Dacron 9oz White Color T20mm
Size: 110 x 125 mm
(1 folded piece above port in the back)

DAMPING MATERIAL K
Dacron 9oz White Color T20mm
Size: 90 x 125 mm
(1 folded piece below port in the back)

Crossover Schematic (Sasandu-TX)



Part List (each cabinet):

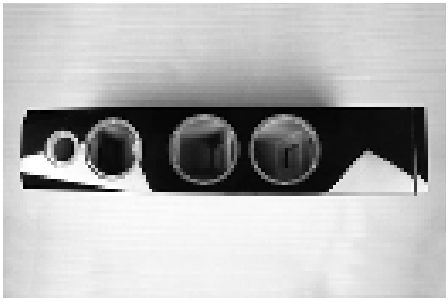
- High frequency driver SATORI TW29TXN-B-8 (sold separately) ..... 1 pc
- Mid frequency driver 6½" SATORI MW16TX-4 (sold separately) ..... 1 pc
- Low frequency drivers 7½" SATORI MW19TX-8 (sold separately) ..... 2 pcs
- Sasandu crossover kit (sold separately) ..... 1 pc
- Hex socket screw M4 x 20mm (for drivers) ..... 24 pcs
- Hex socket screw M5 x 30mm (for pedestal) ..... 11 pcs
- Countersunk screw M4 x 20mm (for terminal plate) ..... 4 pcs
- Wood screw 4 x 16 mm for crossover (from crossover kit) ..... 10 pcs
- Insert nut M4 (Installed) ..... 28 pcs
- Insert nut M5 (Installed) ..... 11 pcs
- Stainless Terminal plate ..... 1 pc
- Binding post ..... 1 pair
- Seal gasket (for terminal plate) ..... 1 pc
- Seal gasket (for pedestal, installed on cabinet) ..... 1 pc
- Port flare (installed on cabinet) ..... 1 pc
- Port paper tube (installed on cabinet) ..... 1 pc
- Damping ..... 1 pc
- Name plate ..... 1 pc
- Tweeter grille ..... 1 pc
- Midrange grille ..... 1 pc
- Woofer grille ..... 2 pcs

Tools Needed:

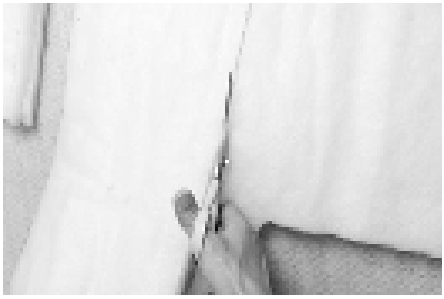
- Hex key 3mm size (for driver screw).
- Hex key 4mm size (for pedestal screw).
- Hex key 2.5mm size (for terminal plate screw).
- Philips screwdriver no. 2 (for crossover screw).
- Hot melt glue gun(for attaching the damping and sealing the wire hole).

Assembly Instructions:

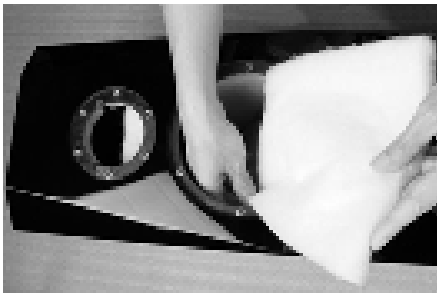
1.Carefully remove the cabinet from the packaging. Locate the raw damping material inside the cabinet and set aside.



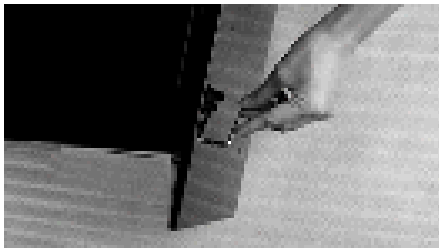
2.Cut the raw damping material into 18 pieces according to the cutting pattern diagram.

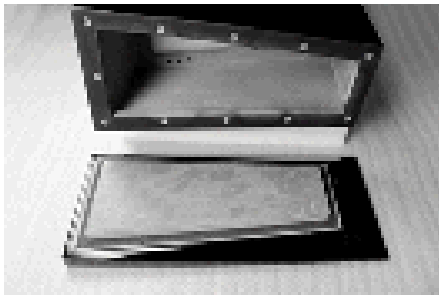


3.Place each damping part into the cabinet according to the position diagram. Add a bit of glue if needed to hold the damping in place.

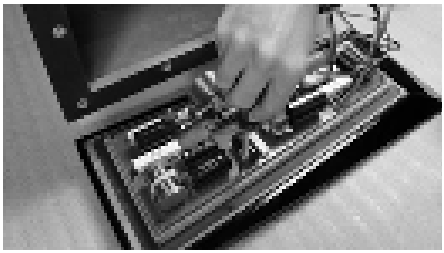


4. Detach the pedestal by loosening the four screws under the speaker cabinet.



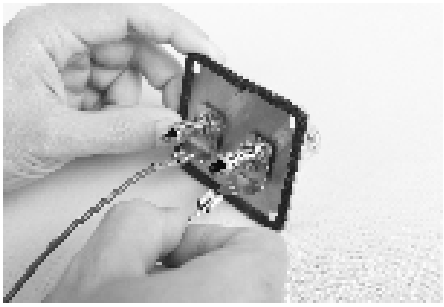


5. Place the crossover onto the top of the pedestal, with the input cables towards the rear terminal side and the speaker wires towards the front panel.

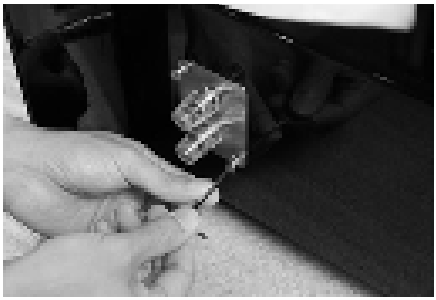


6. Pass the four pairs of speaker wire through the holes in the bottom brace of the cabinet as shown.

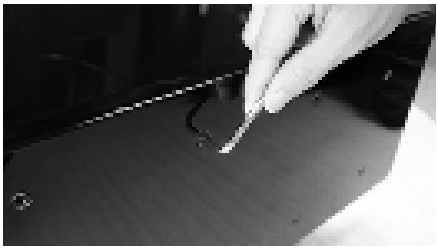
7. Pass the input cable through the terminal hole on the rear of the cabinet, then connect to the binding posts.



8. Mount the terminal panel onto the terminal hole at the back of the cabinet.

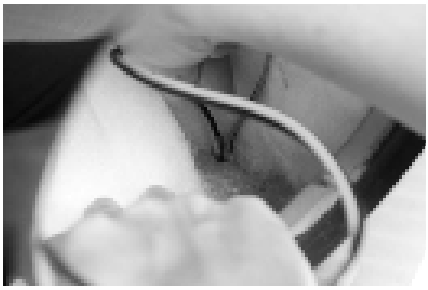


9. Mount the pedestal with the crossover to the cabinet. Make sure to gently tighten all 11 screws without over driving.



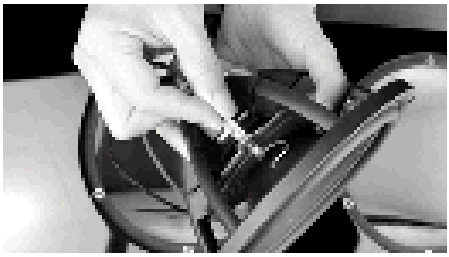
10. Guide the four pairs of cables through the holes in each cabinet bracing.

    Pull the tweeter and midrange cables through the midrange chamber partition hole.

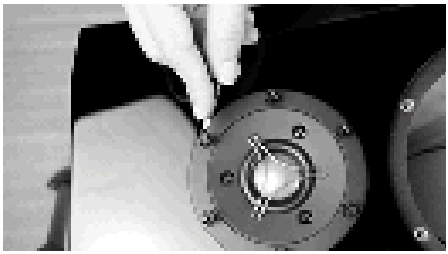


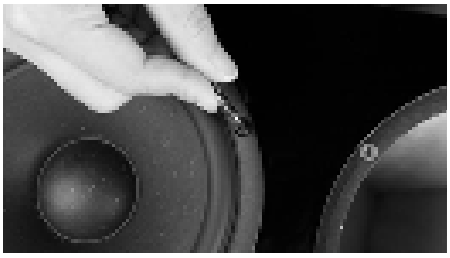
11. Seal the cable holes on the midrange chamber partition with hot melt glue.

12. Hook up the cables to the woofer, midrange and tweeter terminals.



13. Mount the drivers to the cabinet and gently fasten the screws. Take care not to over tighten.





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