TOA

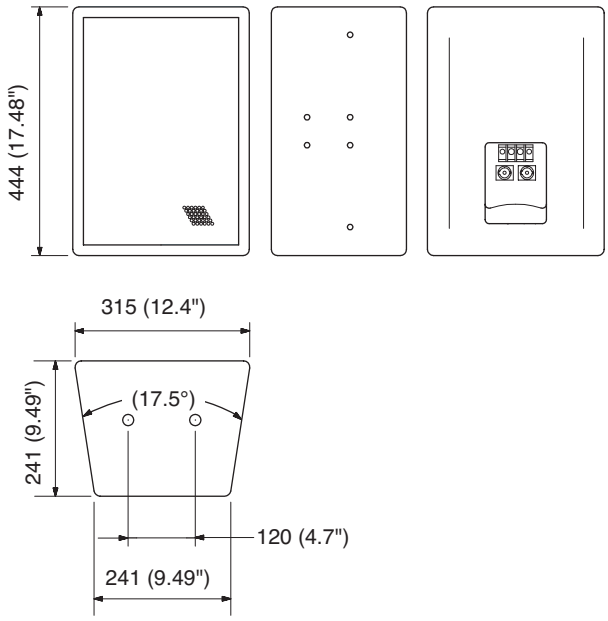
INSTRUCTION MANUAL

SPEAKER SYSTEMS

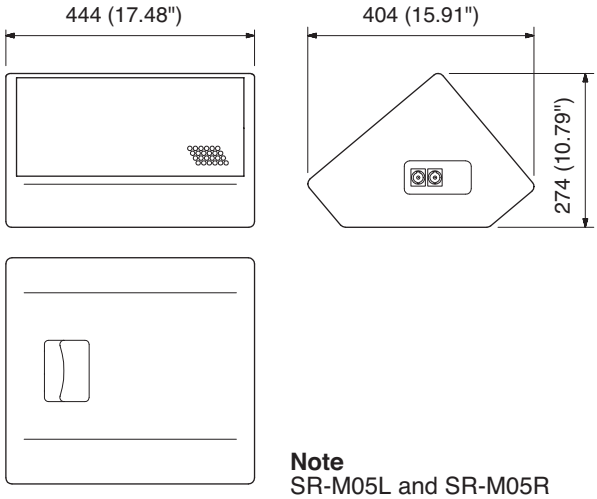
SR-F05
SR-M05L
SR-M05R

Thank you for purchasing TOA's Speaker System.
Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

[SR-F05]



[SR-M05L]



Note
SR-M05L and SR-M05R are symmetrical.

Unit : mm (in)

1. HANDLING PRECAUTIONS

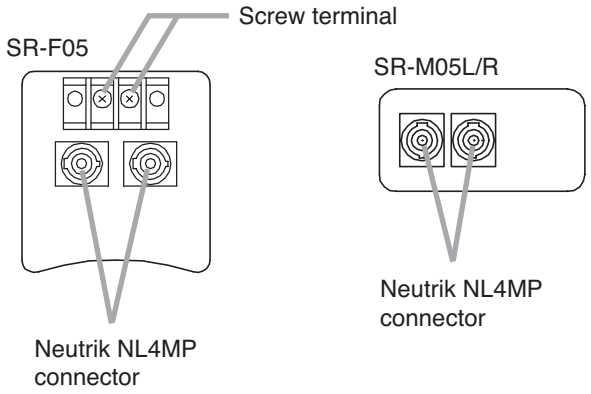
To use this speaker system, TOA's DP-0206 Digital Processor (optional) is required.

2. FEATURES

- Developed for the sound reinforcement (SR) market, the speaker features high power handling capacity, high quality sound, and heavy-duty construction.
- The SR-F05 is a compact, trapezoidal, full-range speaker system and can be used as a main speaker or sub-speaker. The SR-M05L and SR-M05R are floor monitor speakers, and they are symmetrical.
- An internal passive network enables the speaker to be driven by a single power amplifier. (The DP-0206 Digital Processor must be used together.)
- The speaker has a high-efficiency 25 cm (10") woofer with a large magnet (180 mm or 7" in diameter), and a tweeter with a high power driver employing a titanium diaphragm.
- The SR-F05's HF horn is a constant directivity (CD) horn to provide a 90° horizontal by 40° vertical dispersion. The SR-M05's HF horn is a CD horn to provide a 40° horizontal by 40° vertical dispersion.
- The SR-F05 can be installed on an optional speaker stand without using any extra mounting device. In addition, it can be mounted to the ceiling, wall, and ceiling pipe if optional mounting kits are used.
- The rugged MDF (medium density fiber) board enclosure (18 mm or 0.7" in thickness) is finished with shock-resistant urethane coating.
- Input connectors are Neutrik NL4MPs. The SR-F05 also comes with a screw terminal besides the Neutrik connectors if it is used for permanent installation applications (engineering sound market).

3. INPUT CONNECTORS

Each speaker's input connectors are as follows. Because each connector is internally connected in parallel, connections may be made from any connector.

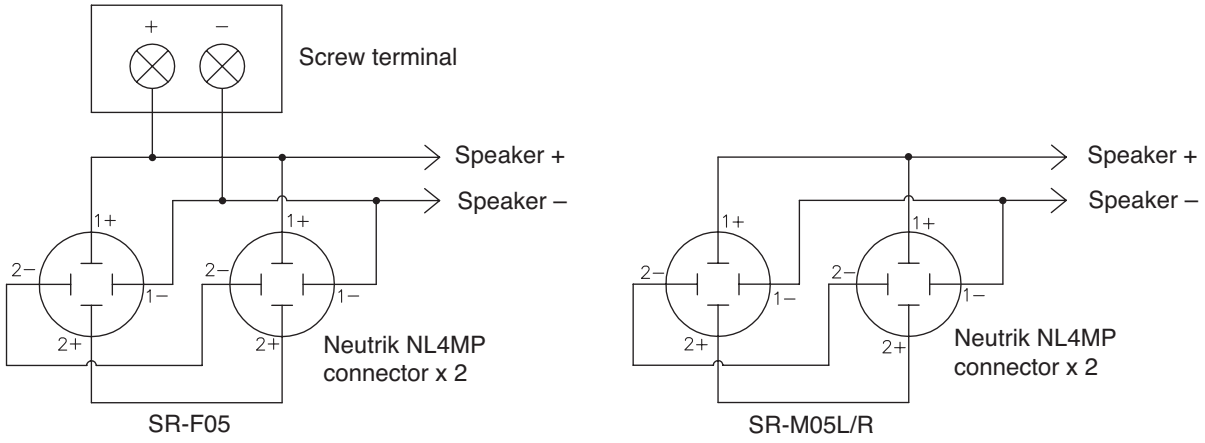


- Each pin of the Neutrik connector is connected as shown below.

Pin number	SR-F05/M05L/M05R
1+	Speaker +
1–	Speaker –
2+	–
2–	–

- Applicable cable connector is Neutrik NL4FC.

4. INPUT CONNECTOR CONNECTION

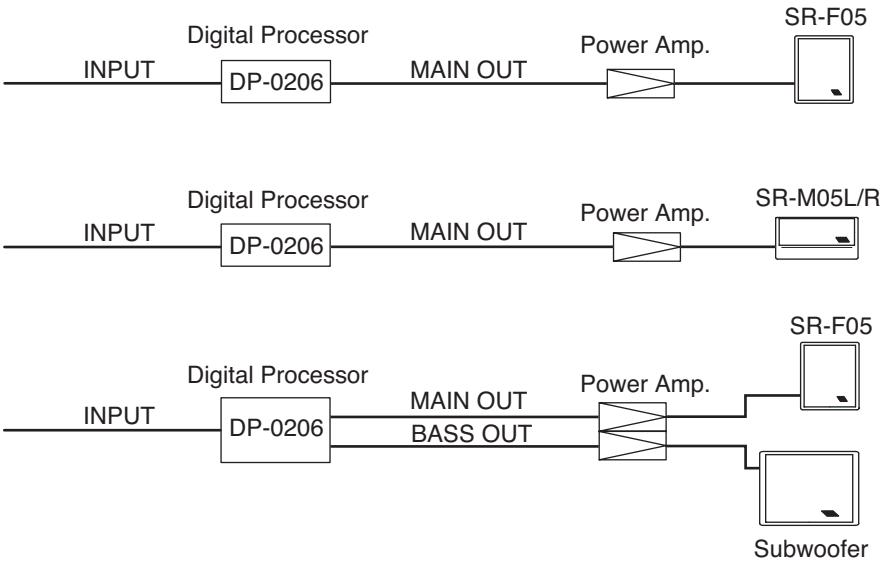


5. DIGITAL PROCESSOR SETTINGS

Speaker System	Channel	Gain (dB)	Polarity	Filter				Delay (msec)
				TYPE	Freq. (Hz)	Gain (dB)	Q	
SR-F05	SR-F05	0	NORMAL	HPF (12dB)	63	—	0.707	—
				PEQ	80	+9.5	0.979	
				PEQ	4.0k	–3.0	4.318	
				PEQ	8.0k	–5.0	3.134	
				PEQ	14.0k	+6.0	1.707	
SR-F05+SR-L05	SR-L05	+5.5	INVERSE	LPF (12dB)	100	—	0.707	0
				HPF (12dB)	20	—	0.707	
	SR-F05	0	NORMAL	HPF (12dB)	63	—	0.707	0
				PEQ	4.0k	–3.0	4.318	
				PEQ	8.0k	–5.0	3.134	
				PEQ	14.0k	+6.0	1.707	
SR-M05L/R	SR-M05L/R	0	NORMAL	HPF (12dB)	63	—	0.707	—
				PEQ	80	+9.5	0.979	
				PEQ	355	+5.0	2.016	
				PEQ	4.0k	–3.0	4.318	
				PEQ	8.0k	–5.0	3.134	
				PEQ	14.0k	+6.0	1.707	

6. CONNECTIONS

6.1. Basic Connection Diagram

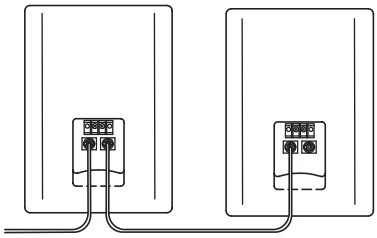


6.2. Usable Power Amplifiers

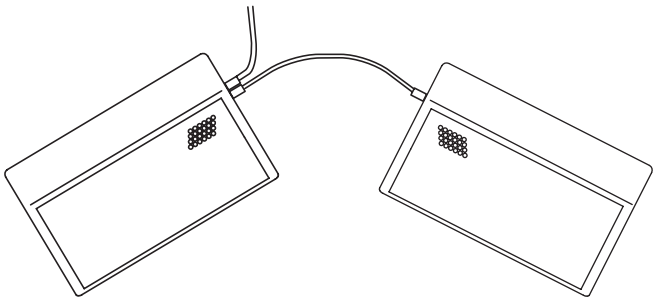
As a principle, the output power of the power amplifier needs to be over 300 W (per channel and 8 Ω load). If the amplifier rating is below 300 W, then the speaker cannot be operated to the fullest of its capability.

6.3. Parallel Operation of Two Speaker Systems

Cascade connection is possible for parallel operation of two speaker systems as shown in the figure below. In this case, the power amplifier output must be over 450 W (per channel and 4 Ω load).



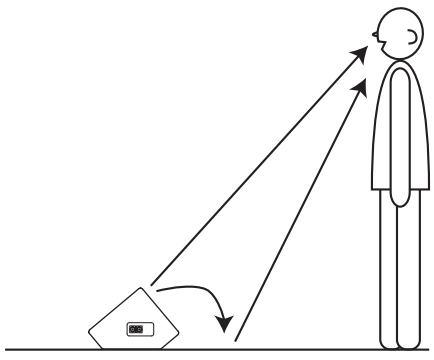
Parallel operation of two SR-F05s



Parallel operation of SR-M05L and SR-M05R

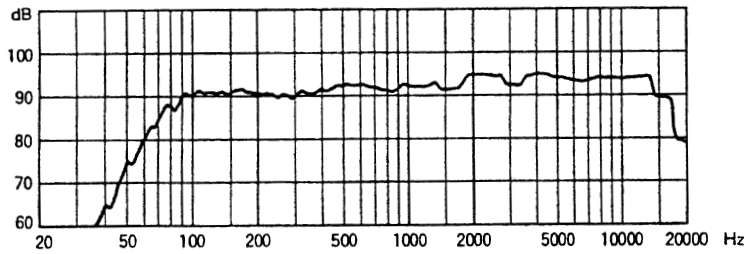
7. FLOOR MONITOR SPEAKER INSTALLATION

The SR-M05L and SR-M05R are designed for installation on the flat floor surface.
The parameters set on the DP-0206 Digital Processor permit the speaker systems to reproduce the best quality of sound under this installation condition. If installed above the floor, the speaker systems cannot provide the intended sound quality.

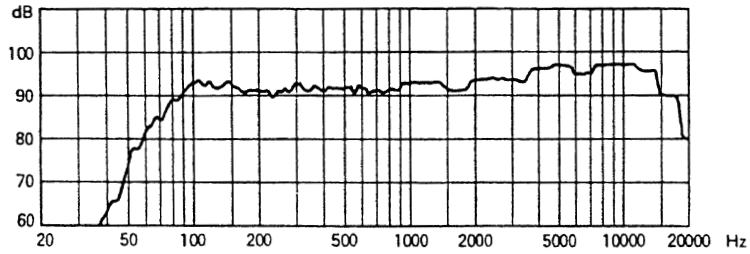


8. CHARACTERISTIC DIAGRAMS

[SR-F05 Frequency response]
(1 kHz, 1/4 W input reference)

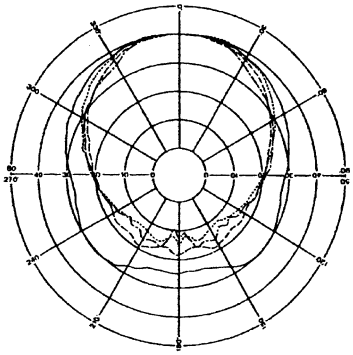


[SR-M05L/R Frequency response]
(1 kHz, 1/4 W input reference, speaker installed on floor)

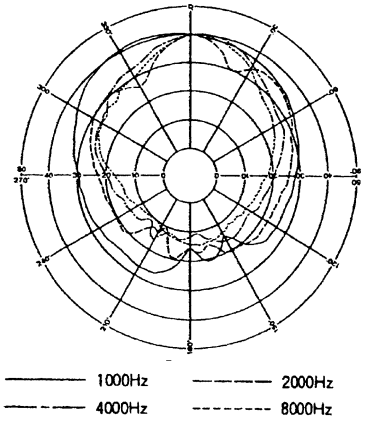


[SR-F05 Directivity characteristics]

• **Horizontal**



• **Vertical**



9. SPECIFICATIONS

Model No.		SR-F05	SR-M05L/R
Enclosure		Bass-reflex type	
Power Handling Capacity		450 W (continuous program) 150 W (continuous pink noise)	
Nominal Impedance		8 Ω	
Sensitivity		99 dB (1 W, 1 m)	
Frequency Response		60 Hz – 18 kHz	
Crossover Frequency		2 kHz	
Low Frequency Speaker		25 cm (10") cone speaker	
High Frequency Speaker		Compression driver and CD horn (90° H x 40° V)	Compression driver and CD horn (40° H x 40° V)
Input Connector		M5 screw terminal, distance between barriers : 13 mm (0.51") Neutrik NL 4MP x 2	Neutrik NL 4MP x 2
Finish	Enclosure	MDF, dark gray, urethane coating	MDF, black, urethane coating
	Front grille	Black, acrylic paint	
Dimensions		315 (w) x 444 (h) x 241 (d) mm (12.4" x 17.48" x 9.49")	444 (w) x 274 (h) x 404 (d) mm (17.48" x 10.79" x 15.91")
Weight		18 kg (39.68 lb)	17.8 kg (39.24 lb)

Note: The design and specifications are subject to change without notice for improvement.

• **Optional product**
Stand : ST-34B

Traceability Information for Europe

Manufacturer:
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