

DM-270 AS
DM-320 AS
DM-420 AS
DM-520 AS

MICROPHONE

1. SAFETY PRECAUTIONS

- Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation.
- Be sure to follow all the precautionary in this section, which contain important handling precaution.
- After reading, keep this manual handy for future reference.

2. HANDLING PRECAUTION

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquid, as doing so may result in unit failure.
- Never open nor remove the unit case to modify the unit. Refer all servicing to your nearest TOA dealer.
- Take care not to drop the unit onto the floor nor bump it againsts a hard object as the unit could fail.
- Do not place the unit in locations of high temperature (ex. In an un-ventilated car in summer) or high humidity as the unit could fail.
- Do not use the unit in locations where it is exposed to seawater.
- To clean, use a dry cloth. When the unit gets very dirty, wipe it lightly with a cloth damped in a dilute neutral cleanser, then wipe with a dry cloth. Never use benzene, thinner, or chemically-treated cleaning towel.

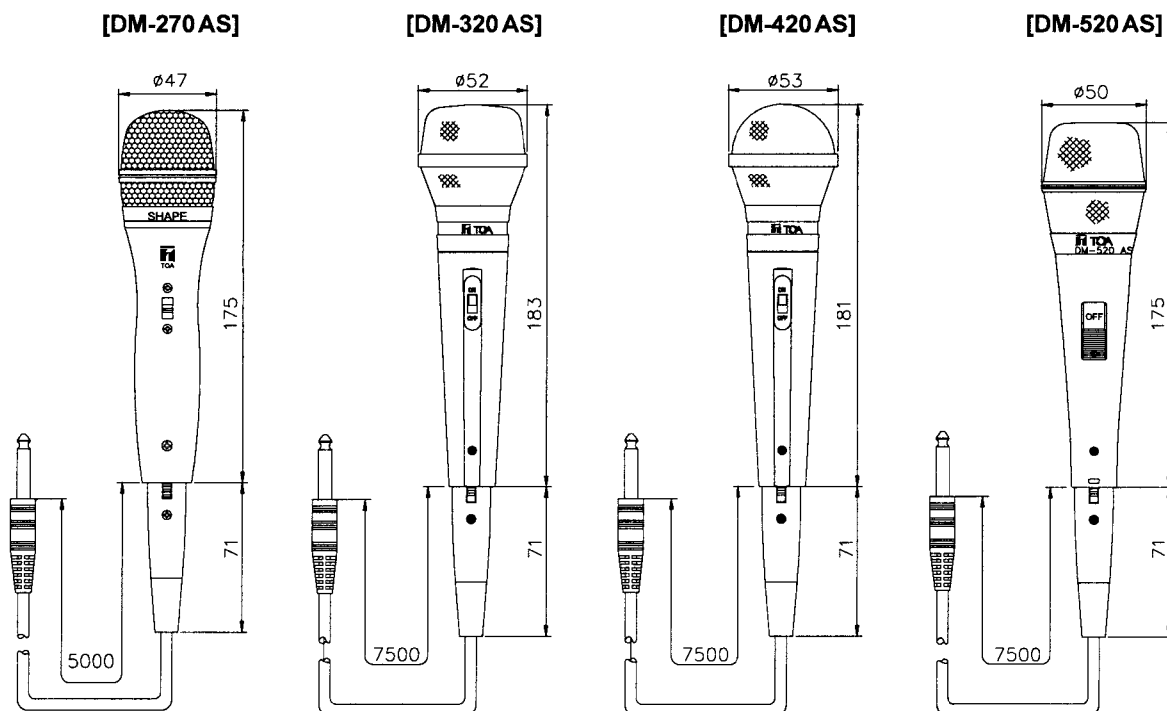
3. GENERAL DESCRIPTION

TOA DM series microphones is moving coil type microphones that suitable for vocal application. Employs sturdy metal body, make these microphones applicable for rigorous condition.

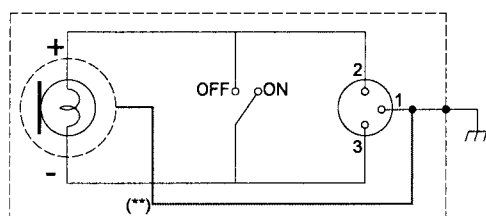
Feature

- Reproduce high sound clarity to combine with other sound system equipment.
- Separated type of cable, make it easy for maintenance purpose.
- Utilizing magnetic switch to reduce noise caused by switch contact (DM-520 AS only).
- Equipped with locking system for ON-OFF switch (DM-520 AS only).
- Special coating on microphone body to avoid microphone become slippery (DM-270 AS only).

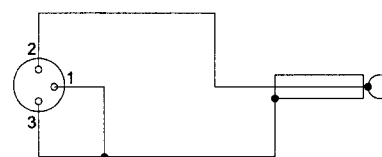
4. DIMENSIONAL DIAGRAM



[Circuit Diagram]



[Microphone unit]

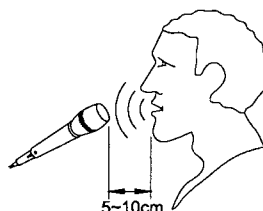


[Cable unit]

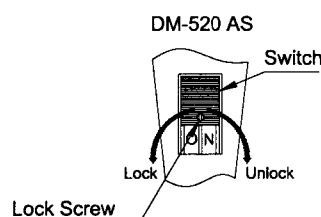
5. USING THE MICROPHONE

1. Place microphone 5~10 cm in front of mouth to get better sound clarity.

Note: Placing microphone closer than 5 cm could increasing proximity effect (bass boost). And placing microphone more than 10cm could increasing crosstalk from other sound source.



2. For DM-520 AS only, switch equipped with lock function. Use mini screwdriver to lock and unlock switch position. Turn lock screw counter clockwise to lock the switch position and otherwise to unlock it.



6. SPECIFICATION

MODEL		DM-270 AS	DM-320 AS	DM-420 AS	DM-520 AS
Type		Moving coil microphone			
Directivity		Unidirectional			
Rated Impedance		600 Ω , Balanced			
Rated Sensitivity (1kHz, 0dB = 1 V/Pa)		-52 dB	-55 dB	-52 dB	-55 dB
Frequency response		100 - 12,000 Hz	100 - 12,000 Hz	100 - 12,000 Hz	100 - 12,000 Hz
Connection cable		Separated, Unbalanced			
Cable length		5 meters	7.5 meters	7.5 meters	7.5 meters
Connector		XLR-3 type			
Talk switch		Short off, slide switch			
Finish	Body	Black	Dark grey	Dark grey	Dark grey
	Head	Black	Dark grey	Silver	Dark grey
Dimensions		Ø47 x 175 mm	Ø52 x 183 mm	Ø52 x 183 mm	Ø50 x 176 mm
Weight		300 g	304 g	280 g	232 g
Accessories		Microphone holder (W 5/16" 18 thread)			



TOA Corporation