

Airmotor ME-20M, ME-20B, ME-80M, ME-80B, ME-10M

Airmotor Set ME-20MS, ME-20BS, ME-80MS, ME-80BS

⚠ This product is designed for dental use only. Its operation and maintenance should be conducted under dentist's supervision.

⚠ Please read this Operation Manual carefully before use, and file for future reference.

SPECIFICATION:

Rotation Direction	: Forward / Reverse	
recommended operating pressures of air	: 0.2MPa (2.0kg/cm ²)	
Rotation Speed	: 5,000rpm (4 to 1)	ME-80M, ME-80B
	: 20,000rpm (1 to 1)	ME-20M, ME-20B, ME-10M
Rotation Torque	: 480g·cm	ME-80M, ME-80B
	: 160g·cm	ME-20M, ME-20B, ME-10M
consumption of air	: 20NL/min	
consumption of water	: 70ml/min	ME-20M, ME-20B, ME-80M, ME-80B
coupling for handpiece	: ISO Standard (E type)	
coupling for Hose	: ISO standard B-type (4H)	ME-20M, ME-80M, ME-10M
	: ISO standard A-type (2H)	ME-20B, ME-80B
Sterilization	: 135°C autoclave for 15 min.	

Set Description	Set Model	Airmotor	Straight handpiece	Contra angle handpiece
	ME-20MS	ME-20M	ES-30A	EC-20L
	ME-20BS	ME-20B	ES-30A	EC-20L
	ME-80MS	ME-80M	ES-30A	EC-20L
	ME-80BS	ME-80B	ES-30A	EC-20L

How to use:

⚠ Check for vibration, noise and overheating outside the patient's mouth before use. And if any abnormalities are found in use, stop using immediately and contact your dealer.

⚠ Please avoid disassembling or modifying the product.

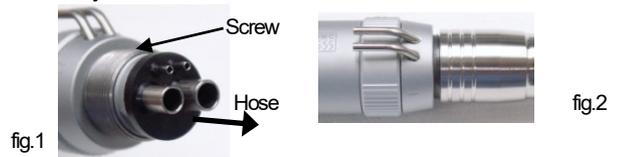
⚠ Do not drop, apply excessive force / impact on airmotor. Warranty is invalid for the trouble caused by those acts.

1. Coupling with Hose

Check that the connection type of Airmotor matches that of hose. (fig.1)

Screw tight a hose coupler at the back end of Airmotor. (fig.2)

Make trial run at low speed to check proper connection with neither air- nor water leak.



2. Coupling with Handpiece

Push the nose of Airmotor into the Handpiece to be coupled, all the way until it stops.

(fig.3, fig.4)

Please refer to the operation manual of handpiece, for its use.



3. Un-coupling with Handpiece

Push release button. (fig.5)

Pull out Handpiece. (fig.6)

※Pull handpiece out for ME-10M.

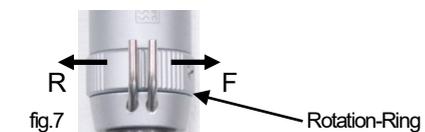


4. Forward / Reverse Rotation

Forward or Reverse rotation is selected by adjusting the screw head on Rotation-Ring at F or R each.(fig.7)

Please use at F under normal condition.

※Maximum speed can be reduced by slightly moving the screw head on Rotation-Ring back toward R.





5. Spray attachment

1. Straight handpiece(ST) spray attachment

Clip the spray attachment on the nose of straight handpiece.(fig.8)

Connect the tube with the spray pipe on Airmotor. (fig.9)

2. Contra angle handpiece(CA) spray attachment

Please clip the spray attachment on the neck of contra angle handpiece (fig.10) in the way that sprayed water is aimed at the tip of bar. Connect the tube with the spray pipe on Airmotor (fig.11).

3. Airmotor spray attachment

For 4 hole Airmotor, connect 2 tubes of 4 holes spray attachment with spray pipe on Airmotor. Then join the CA spray tube or the ST spray tube to the attachment.(fig.11)

For 2 hole Airmotor, connect the tube with the spray pipe on Airmotor.(fig.12)



fig.8



fig.9



fig.10



fig.11



fig.11



fig.12

⚠ Tube included is made long on purpose. Please cut it at the best length for your use.

Maintenance:

⚠ To keep Airmotor under good condition, the lubricate oil specifically made for dental Handpiece should be used. Use the spray as instructed by its manufacturer.

1. Lubrication

• Before autoclave	: Every time	• After Cleaning	: Every time	• After use	: Every time
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Be sure to lubricate every time after use, before autoclave, in the case that water and/ or dust gets inside. Spray lubrication could also make inside cleaning. It should be conducted twice each time. Please spray lubrication oil for more than 2 seconds.

⚠ When water goes inside the Airmotor, lubricate more than three times.

Spray lubricate oil in the drive-air at the back end of Airmotor Handpiece. (Fig.8)

⚠ Without being held firm by hand, Airmotor could be pushed away by air-pressure of spray. Accidental drop could cause damage on the Airmotor.

2. Surface Cleaning

Clean with brush and wipe off by cloth. Lubrication should be conducted every time after surface cleaning. Although it is effective to apply a little alcohol on the cloth, excessive amount, by seeping inside Airmotor, could take off lubricate oil on ball-bearing. If it happens, lubricate again.

3. Inside Cleaning

Take the same steps with the process of spraying lubricate oil. Operate trial run at low speed every after lubrication. In order to drive dirt out of exhaust air tube, repeat the process at least twice. Conduct the cleaning once a day.

STERILIZATION

⚠ Do not put Airmotor through ultrasonic disinfection solution cleaning procedure. Use neither cold nor dry heat sterilization.

⚠ Please use Class B sterilizing device stated in EN13060.

1. Clean with brush and wipe off by cloth. Refer to the section, Maintenance, 2. Surface Cleaning.

2. Lubricate with Spray. Refer to the section, Maintenance, 1. Lubrication.

⚠ Blood, debris, other substance left inside Airmotor, can be solidified during sterilization and cause break-down. Please clean and lubricate well before autoclave.

3. Place Airmotor in sterilization pouch. Autoclave at temperature 134-137°C(2Mpa) for 15min.

⚠ Prevent the bur on handpiece from hitting others in time of autoclave.

⚠ Please operate Autoclave dry cycle at temperature 135°C.

4. Leave Airmotor in the sterilization pouch stand till excessive oil inside flows out.

WARRANTY

~Airmotor : 1 year

Trouble, which occurs due to material defect or despite the correct use as the instruction manual states, during the period specified above, is covered under warranty by the manufacturer. Quality deterioration caused by drop of Airmotor, lack of lubrication maintenance, will be excluded from warranty coverage.

⚠ Please ask the store the product is purchased from, for repair.

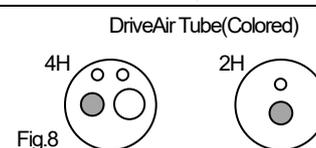


Fig.8

