

GENERATOR SERVICE INSTRUCTIONS

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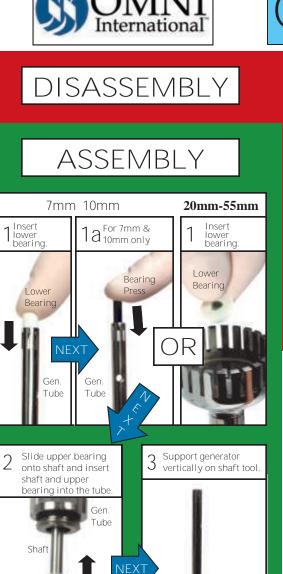
1-800-776-4431

The lower bearing will come out with

little effort. Remove the lower bearing

and the parts are ready for cleaning.

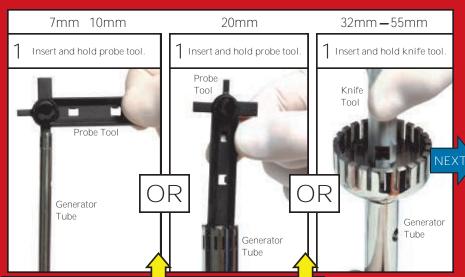
OR



7mm 10mm

Insert knife

Generator



WARNING

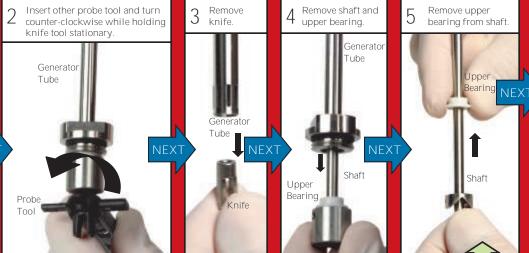
Generator probe

and knife may be

Always use caution

when working with

any sharp objects.



or damaged.

A press is required to remove the lower bearing from 7mm generator probes. The process is illustrated Thread appropriate bearing press onto shaft

Insert shaft with bearing

press into generator tube

NOTE If bearings are replaced, they must be run-in before initial use.

NOTE Inspect bearing for wear or black

before reassembly. Replace bearing if worn

particles. Clean any dirt from bearing

7mm 10mm 35mm 20mm

WHAT SIZE GENERATOR PROBE

DO YOU HAVE?

Match the bottom of your generator probe to the

parts and assembly numbers.

circles shown below to determine the diameter of the

probe. Reference the manual for a complete listing of

NOTE 195mm length generator probes may have a mid-bearing pressed into the tube. The tube can be autoclaved with the midbearing installed. If you must remove the mid-bearing, contact the service department.

CAUTION

s required.

CAUTION

DO NOT use any

ools other than those

Ilustrated. Use of any

other tool will void

Contact the service

department if a tool kit

your warranty.

DO NOT tighten generator probe parts.

20mm **-** 55mm

Insert knife

Use of any torque may damage the generator probe or complicate assembly and disassembly.

7mm 10mm 20mm 32mm - 55mm 5 Insert probe tool. probe tool OR

AUTION: DO NOT IGHTEN.

Turn rotor shaft clockwise

6 Turn rolo, s... with shaft tool.

Run generator in water. Knife will self tighten.

Motor Generato Probe

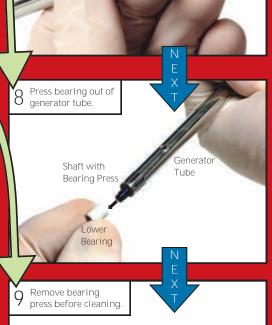
RUN-IN PROCEDURE

New bearings must be run-in before initial use.

Procedure:

- 1. Run 4 minutes on lowest motor setting.
- 2. Run 5 minutes on medium motor setting.
- 3. Run 1 minute on highest motor setting.
- 4. Disassemble generator probe.
- 5. Clean bearings of run-in dust.
- 6. Reassemble generator probe.

Generator probe is ready for use.



CLEANING GENERATOR PROBES

Generator probes are configured with a PTFE upper and lower bearing (400-series stainless steel bearings may be ordered). Please note that 400-series stainless steel bearings are subject to corrosion if not properly maintained. After cleaning, stainless steel bearings should be removed from the generator probe and wiped clean of all debris and moisture Stainless steel bearings should not be used when working with organic solvents or in an environment that does not allow for proper maintenance. If the generator probe is to be used with organic solvents, then it is recommended that the stainless steel bearing be replaced with a glass filled PTFE bearing (PN 10503). PTFE bearings are generally corrosion resistant, and are self-lubricating.

CAUTION: DO NOT autoclave or lubricate stainless steel bearings.

Generator probes can be autoclaved as a complete assembly, if PTFE bearings are used. However, if it is necessary to disassemble the generator probe for special cleaning, or replacement of the rotor knife, rotor shaft, or the bearings, then follow the disassembly introductions.

NOTE: If you experience excessive vibration, heat, or bearing wear, please contact technical support at 1-800-776-4431

REPLACEMENT AND RUN-IN OF PTFE BEARINGS

Over time, and with repeated use, PTFE bearings will wear out and must be replaced. Failure to replace worn PTFE bearings will result in damage to the generator probe. PTFE bearings should be replaced when they no longer fit snugly against the rotor shaft, or when visible wear is apparent, or if black particles become visible in the sample.

Run-in: The new bearing must be run-in in order to assure proper seating and to operate properly. Immerse one-third of the generator probe in water and operate the motor drive at low speed for 5 minutes, then run at full speed for 1 minute to complete the run-in procedure. If excessive or unusual noise is experienced during the run-in, immediately turn off the motor drive, and restart the break-in procedure at low speed. After completion of the run-in procedure, disassemble the generator probe and clean the bearing. Reassemble the generator probe and operate as needed.

WARNING: The tip of the generator probe, especially on the saw tooth generator probes, is sharp. For safety purposes it is advisable that the protective cap be replaced on the generator probe when not in use.

CAUTION: The bottom of the generator probe is extremely fragile and care should be taken to protect it. Replace the blue protective cap on the end of the generator probe when the generator probe is not being used.

CAUTION: When using PTFE lower bearings, immerse the bottom of the generator probe in liquid or in the sample to avoid premature failure of the lower bearing.

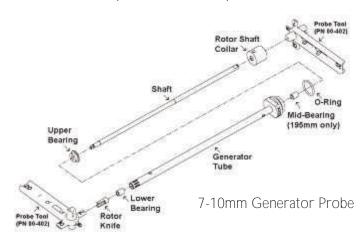
NOTE: For optimal sample recovery during processing, completely remove the generator probe from the sample prior to turning off the motor drive unit.

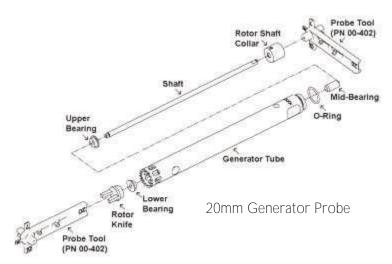
NOTE: Liquid circulates through the two holes in the generator probe. DO NOT block the upper hole, although the lower hole may be completely submerged during processing.

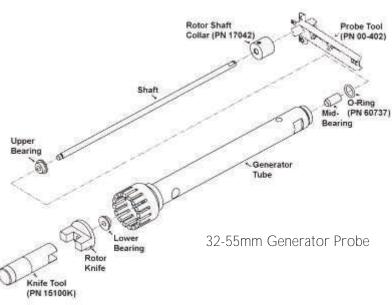
CAUTION: To protect the motor and the generator probe never operate the motor with the generator probe partially threaded onto the motor.



GENERATOR PROBES FOR OMNI MIXER, MACRO, & MACRO-ES

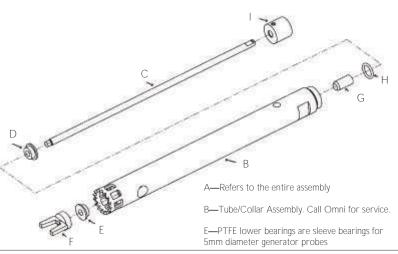






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GENERATOR PROBE REPLACEMENT PARTS



Generator	Diameter	Length	Shaft	Upper Brg.	SS Brg.	PTFE Low Brg.	Knife	Mid Brg.	O-Ring	Rotor Shaft Collar
А			С	D (4/pkg)	D (2/pkg)	E (4/pkg)	F	G	Н	I
15007	7mm	95mm	10017	10503	10651	10507	10047	N/A	60737	17042
15007W	7mm	95mm	10017	10503	10651	10507	10047	N/A	60737	17042
15007ST	7mm	95mm	10017	10503	10651	10507	10047	N/A	60737	17042
15007STW	7mm	95mm	10017	10503	10651	10507	10047	N/A	60737	17042
15007L	7mm	195mm	10017L	10503	10651	10507	10047	10071_R	60737	17042
15007LW	7mm	195mm	10017L	10503	10651	10507	10047	10071_R	60737	17042
15007LST	7mm	195mm	10017L	10503	10651	10507	10047	10071_R	60737	17042
15007LSTW	7mm	195mm	10017L	10503	10651	10507	10047	10071_R	60737	17042
15051	10mm	95mm	15512	10503	10651	10504	15013	N/A	60737	17042
15051W	10mm	95mm	15512	10503	10651	10504	15013	N/A	60737	17042
15010	10mm	195mm	15012	10503	10651	10504	15013	10069	60737	17042
15010W	10mm	195mm	15012	10503	10651	10504	15013	10069	60737	17042
15201	20mm	100mm	15222	10503	10651	10503	15023	N/A	60737	17042
15201W	20mm	100mm	15222	10503	10651	10503	15023	N/A	60737	17042
15401	20mm	145mm	15422	10503	10651	10503	15023	N/A	60737	17042
15401W	20mm	145mm	15422	10503	10651	10503	15023	N/A	60737	17042
15020	20mm	195mm	15022	10503	10651	10503	15023	10069	60737	17042
15020W	20mm	195mm	15022	10503	10651	10503	15023	10069	60737	17042
				(2/pkg)						
150-32TT-195	32mm	195mm	15-04-195	10653	10653	10506	15-03-32T	15-11-250	60737	18063
150-35NA-195	35mm	195mm	15-04-195	10653	10653	10506	15-03-35A	15-11-250	60737	18063
150-35WA-195	35mm	195mm	15-04-195	10653	10653	10506	15-03-35A	15-11-250	60737	18063
150-45NA-195	45mm	195mm	15-04-195	10653	10653	10506	15-03-45A	15-11-250	60737	18063
150-45WA-195	45mm	195mm	15-04-195	10653	10653	10506	15-03-45A	15-11-250	60737	18063
150-55NA-195	55mm	195mm	15-04-195	10653	10653	10506	15-03-55A	15-11-250	60737	18063
150-55WA-195	55mm	195mm	15-04-195	10653	10653	10506	15-03-55A	15-11-250	60737	18063

P/N: 03-219 Rev. A