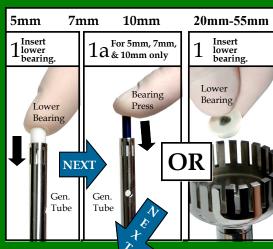


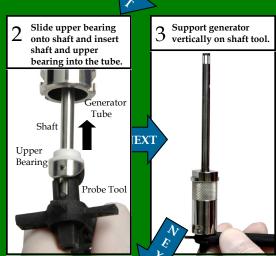
## GENERATOR SERVICE INSTRUCTIONS

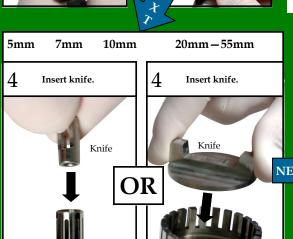
**Omni International Service Department** 1-800-776-4431



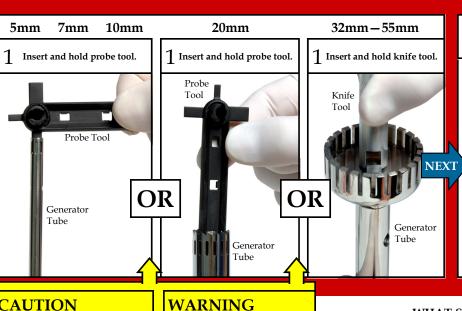
## **ASSEMBLY**







Generato



Generator probe

and knife may be

Always use caution

when working with

32mm-55mm

any sharp objects.

OO NOT use any

ools other than those

llustrated. Use of any

other tool will void

Contact the service

<mark>department if a tool kit</mark>

DO NOT tighten generator probe parts.

generator probe or complicate assembly

20mm

Insert

probe tool

Probe

OR

Use of any torque may damage the

OR

Generator

your warranty.

s required.

CAUTION

and disassembly.

5mm 7mm 10mm

5 Insert probe tool.

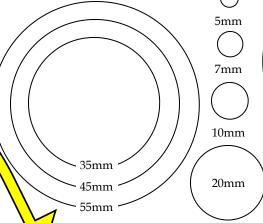
Insert other probe tool and turn

knife tool stationary.

counter-clockwise while holding

### WHAT SIZE GENERATOR PROBE DO YOU HAVE?

Match the bottom of your generator probe to the circles shown below to determine the diameter of the probe. Reference the manual for a complete listing of parts and assembly numbers.



Run generator in water.

Motor

**NEXT** 

Knife will self tighten.

Turn rotor shaft clockwise

**CAUTION:** 

DO NOT

TIGHTEN.

Turn shaft until

assembly stops.

with shaft tool

NOTE Inspect bearing for wear or black particles. Clean any dirt from bearing before reassembly. Replace bearing if worn or damaged.

4 Remove shaft and upper bearing.

**NEXT** 

Remove upper

bearing from shaft.

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

**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.

## **RUN-IN PROCEDURE**

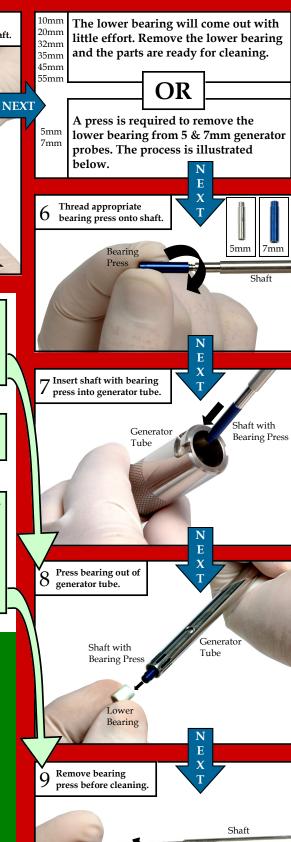
New bearings must be run-in before initial use.

#### 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.

generator tube.



#### **CLEANING GENERATOR PROBES**

Generator probes are configured with a Teflon 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 Teflon bearing (PN 10503). Teflon 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 Teflon 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 TEFLON BEARINGS

Over time, and with repeated use, Teflon bearings will wear out and must be replaced. Failure to replace worn Teflon bearings will result in damage to the generator probe. Teflon 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 Teflon lower bearings, immerse the bottom of the generator probe in liquid or in the sample to avoid premature failure of the lower bearing.

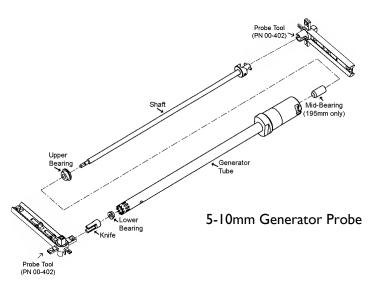
NOTE: For optimal sample recovery during processing, completely remove the generator probe from the sample prior to turning off the motor drive unit.

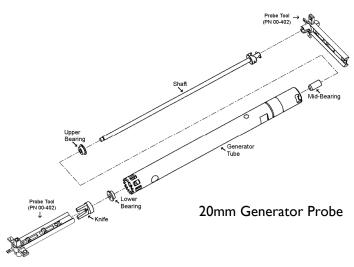
NOTE: Liquid circulates through the two holes in the generator probe. DO NOT block the upper hole, although the lower hole may be completely submerged during processing.

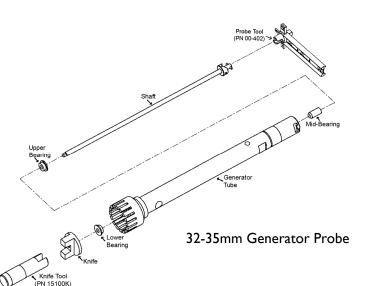
CAUTION: To protect the motor and the generator probe never operate the motor with the generator probe partially threaded onto the motor.



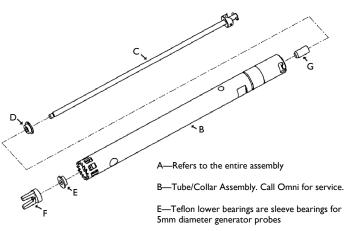
# GENERATOR PROBES FOR OMNI µH, TH, GLH, & PDH







#### **GENERATOR PROBE REPLACEMENT PARTS**



Generator	Diameter	Length	Shaft	Upper Bearing		Lower Bearing		Knife	Mid Bearing
				Teflon	S.S.	Teflon	S.S.		
Α			С	D (4/pkg)	D (2/pkg)	E (4/pkg)	E (2/ pkg)	F	G
G5-95	5mm	95mm	5952	10503	10651	10505	N/A	10045	N/A
G5-95W	5mm	95mm	5952	10503	10651	10505	N/A	10045	N/A
G7-95	7mm	95mm	7952	10503	10651	10507	N/A	10047	N/A
G7-95ST	7mm	95mm	7952	10503	10651	10507	N/A	10047	N/A
G7-95STW	7mm	95mm	7952	10503	10651	10507	N/A	10047	N/A
G7-95W	7mm	95mm	7952	10503	10651	10507	N/A	10047	N/A
G7-195	7mm	195mm	71952	10503	10651	10507	N/A	10047	10071_R
G7-195ST	7mm	195mm	71952	10503	10651	10507	N/A	10047	10071_R
G7-195STW	7mm	195mm	71952	10503	10651	10507	N/A	10047	10071_R
G10-95	10mm	95mm	10952	10503	10651	10504	10652	15013	N/A
G10-95W	10mm	95mm	10952	10503	10651	10504	10652	15013	N/A
G10-95K	10mm	95mm	10952	10503	10651	10504	10652	15013-B	N/A
G10-95KW	10mm	95mm	10952	10503	10651	10504	10652	15013-B	N/A
G10-195	10mm	195mm	101952	10503	10651	10504	10652	15013	10069
G10-195W	10mm	195mm	101952	10503	10651	10504	10652	15013	10069
G10-195K	10mm	195mm	101952	10503	10651	10504	10652	15013-B	10069
G10-195KW	I0mm	195mm	101952	10503	10651	10504	10652	15013-B	10069
G20-195ST	20mm	195mm	201952	10503	10651	10503	10651	15023	10069
G20-195STW	20mm	195mm	201952	10503	10651	10503	10651	15023	10069
G20-195STK	20mm	195mm	201952	10503	10651	10503	10651	15023-B	10069
G20-195STKW	20mm	195mm	201952	10503	10651	10503	10651	15023-B	10069
G-32TT-195	32mm	195mm	15-05-195	10506	10653	10506	10653	15-03-32T	15-11-250
G-35NA-195	35mm	195mm	15-05-195	10506	10653	10506	10653	15-03-35A	15-11-250
G-35WA-195	35mm	195mm	15-05-195	10506	10653	10506	10653	15-03-35A	15-11-250

P/N: 03-220 Rev. 07/16/07