



iMed Biomedical, Inc.

Leading the Industry in Biomedical Solutions

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3010, 3500, and 4000 Top Housing Instruction For Installation

Service Notes:

- Repair Pump in ESD Controlled Work Area: The pump case should only be opened at a workstation with Electrostatic controls, including a grounded mat and wrist-strap.
- Disconnect AC Mains & External DC Power: Always disconnect the pump from AC Mains and from External DC power before disassembling the pump for maintenance.
- Follow retest guidelines listed in the Calibration and Adjustment section to verify pump functionality before returning it to use.
- Do not over-tighten screws: Never over-tighten any screws in the pump. Unless otherwise specified, you should torque all screws to 60 in-oz.
- Follow Manufacturer’s Maintenance Procedures: Always repair and maintain this pump following the manufacturer’s recommended instructions in this Service Manual.

Tools Needed:

- For this disassembly and assembly procedure you will need:
- Torque screwdriver with a #1 Phillips head
- Small flat head
- 1/4” Wrench or nut driver
- 2.5mm Allen wrench
- Safety glasses

Screw/Torque Values:

Screw Location:	Screw Description:	QTY	Oz In.	IN. LB.
Main board	Pan head screw	2	60	3.75
Pump Housing	Pan head screw	2	60	3.75
Pole clamp	Flat head screw	2 or 4	160	10
Battery Cover	Flat head screw	2	60	3.75
Plunger Cable at J11	Pan head screw	1	16	1
Fiber optic Connector	Screw connector	2	32	2
Extrusion Standoffs	Standoff	3	100	6.25
Extrusion	Pan head screw	3	100	6.25
Barrel Clamp Assembly	Pan head screw	2	100	6.25
Barrel Clamp head	Pan head screw	1	60	3.75
Optical Sensor	Pan head screw	1	100	6.25
Handle	Pan head screw w/ washer	2	60	3.75
Plunger Halfs	Pan head screw	3	60	3.75
Plunger board	Pan head screw	1	100	6.25
Force Sensor	Hex screw	1	100	6.25

Tech Tips:

- Slide the keypad ground tab between the extrusion and the top housing. Be sure the black side of the tab faces toward the extrusion.
- Be sure all wires are clear of pinch points when rejoining the housing halves.
- There are 3 snap fit tabs and slots along the back- side of the housing. Align them and close the top & bottom housings together.
- Clean by spraying or pouring cleanser directly onto a soft cloth (not directly onto the pump) and then wiping surfaces until dry.
- Not Waterproof: The pump is “spray resistant” but not “water proof”. Never spray cleaning or other fluids directly into openings on the bottom of the pump.