

# MINIMAC MAESTRO SERVICE

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## Risk of electrical shock

Always disconnect the fixture from AC power before and while servicing, or refer the work to a qualified technician.

Removal of any cover exposes connectors that carry lethal electric currents. While working on a fixture under power:

- Make sure the fixture is electrically grounded.

- Use a supply with ground-fault-interrupt protection.
- Never touch any connector that carries voltage.
- Be careful with tools that conduct electricity.

## Risk of UV radiation and lamp explosion

Discharge lamps emit harmful ultraviolet (UV) light which can cause eye and skin burns. In addition, they work under high temperature and pressure; lamps can and do explode. The explosion risk increases as the lamp ages and the quartz envelope weakens. To reduce the risk of injury while working on a fixture with the cover removed:

- Never operate the lamp outside the reflector unit.
- Protect eyes with UV-blocking safety goggles. Do not look directly into the light.
- Protect exposed skin with a high factor sun-block.

## Electrostatic discharge (ESD) sensitive parts

All PCBs, individual ICs, and Hall sensors are ESD sensitive. To avoid damaging ESD sensitive parts:

- Ensure that you and your tools have the same potential (ground) as the fixture before and when handling any of the above components.
- Always store PCBs in antistatic (electrically conducting) bags and store ICs in antistatic foam.
- Always power off the fixture and allow capacitors to discharge before removing or inserting any components on the PCBs.

## Inductive loads

Always power off the MiniMAC Maestro before connecting or disconnecting any of the step motors. Otherwise, damage to the motor drivers may occur.

## Threadlock

Threadlock shall be used on all machine screws except self-tapping (Taprite) screws to prevent loosening. Threadlock must be reapplied if the screws are removed.

Two types of threadlock are available from Martin. For set screws, use Loctite 290, P/N 37020002. For all other screws, use Loctite 243, P/N 37021002. Both come in 10 ml tubes.

Be careful to avoid getting any material on shafts or cones. A needle and syringe makes an ideal application tool.

**Long set screws:** Start the screw and turn it until it contacts the shaft. Back the screw 2 turns, apply a small drop or 2 of Loctite 290 to the threads, and then tighten the screw as you normally would.

**Short set screws:** Back the set screw out of the adaptor until 2 threads stick out of the shaft. Apply a small drop or 2 of Loctite 290 to the threads, and then tighten the screw within 60 minutes.

**Other metric screws:** Apply a drop of Loctite 243 (Blue) to 3 or 4 threads, or spread a thin stripe with a syringe, before starting the screw.

## Self-tapping screws

The reuse of self-tapping "Taprite" screws is not recommended as these screws are designed to cut threads and can strip existing threads when reinserted. Change to metric hardware of the same size when reinstalling parts originally held with Taprites.

If installing a new part without threads, use new self-tapping screws. Do not use old taprites to cut new threads!

# Martin Minimac Service Manual

**Camilla Rothe**



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