

# 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 (TapTite) 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 axles. 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 "TapTite" 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 TapTites.

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

# Minimac 2 0 Service Manual

**Robert R. Redfield**



**Minimac 2 0 Service Manual:**

**Federal Register** ,1974      *Sound & Communications* ,1983      **Popular Photography** ,1989-03      Popular Photography ,1989-05      *Popular Photography* ,1983-01      **Popular Photography** ,1989-06      *Popular Photography* ,1989-11      Popular Photography ,1989-01      **Popular Photography** ,1995-03      **Popular Photography** ,1995-12      **Popular Photography** ,1989-02      **The Commercial Motor** ,1979      **Popular Photography** ,1988-01      Air Trails Pictorial ,1954-04      *Jane's All the World's Aircraft* Frederick Thomas Jane,1979      *Catalogue* Montgomery Ward,1978      *Popular Photography* ,1985-12      **The Compu-mark Directory of U.S. Trademarks** ,1991      **Electronics** ,1947 June issues 1941 44 and Nov issue 1945 include a buyers guide section      **Modern Photography** ,1988

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8. Mass Balance Mass-balance analysis may also be referred to as. “Material Flow Analysis” or “Substance Flow Analysis.” Table 8.1 provides several examples of possible inputs,. Mass Balance Approach in the Chemical Industry The mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every. Models for Writers Eleventh Edition They will enjoy and benefit from reading and writing about selections by many well-known authors, including Annie Dillard, Judith Ortiz Cofer,. Stephen King, ... Models for Writers: Short Essays for Composition 11th... by ... Models for Writers: Short Essays for Composition 11th (eleventh) Edition by Rosa, Alfred, Eschholz, Paul published by Bedford/St. Martin's (2012). Models for Writers: Short Essays for Composition Author · Paul Eschholz. Author. Models for Writers: Short Essays for Composition. Eleventh Edition. ISBN-13: 978-0312552015, ISBN-10: 0312552017. 4.4 4.4 out of ... Models for Writers eleventh edition. Alfred Rosa. Paul Eschholz. Prepared by. Sarah Federman ... the essays in Models for Writers are grouped into 21 chapters, each devoted to a ... Models for Writers 11th Edition | Alfred Rosa It's a simple, best-selling combination that has worked for thousands of students — short, accessible essays and helpful, thorough writing instruction. Models For Writers, Eleventh Edition - Alfred Rosa & Paul ... Models for Writers, Eleventh Edition - Alfred Rosa & Paul Eschholz - Free ebook download as PDF File (.pdf), Text File

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