

# MAC 250 Reflector Kit Installation Guide

## Introduction

This guide explains how to install the MAC 250 Reflector Kit (P/N 50400510). The procedure is the same for both MAC 250 Krypton and MAC 250 Wash fixtures, but does not apply to MAC 250 Entour fixtures. The kit is necessary because of a reduction in the size of the reflector that is used in these fixtures and prevents the smaller reflector from moving off-center.

For the latest documentation and information about this and all Martin Professional products, please visit the Martin website at [www.martin.com](http://www.martin.com).

**Warning!** *Read and follow the safety precautions in your MAC 250 user manual before installing the reflector. The user manual is supplied with the MAC 250 and is also available for download from [www.martin.com](http://www.martin.com)*

*Disconnect the fixture from power, allow to cool and place on a workbench before starting work.*

*The MAC 250 Reflector Kit must be installed by qualified professional technicians only. Read all of this Installation Guide carefully before starting to install the reflector. Martin Professional A/S and its affiliated companies cannot be held responsible for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss resulting from failure to follow the instructions and respect the safety precautions.*

*If you have any questions about how to install the reflector safely, please contact your local Martin distributor (see [www.martin.com/distributors](http://www.martin.com/distributors) for details) or call the Martin 24-hour service hotline on +45 8740 0000, or in the USA on 1-888-tech-180.*

**Important!** *To avoid damage to PCBs and their sensitive electronic components, take precautions to avoid ESD (electrostatic discharge) and carry out work at an ESD-free workstation. Do not get oil or grease onto optical components. If necessary, clean components with 99.9% isopropyl alcohol.*

# Overview

The MAC 250 Reflector Kit contains the following items:



**A**



**B**



**C**

## Parts list

A	Centering frame	P/N 62408470
B	Reflector	P/N 41002097
C	Silicone tubing (x 4)	P/N 62400301

## Tools required

Screw sizes given in this guide are indicative only. The following tools are normally required to install the MAC 250 Reflector Kit as described in this guide:

- A medium flathead screwdriver
- Pozidriv PZ1 and PZ2 screwdrivers (all cross-head screws in MAC 250 fixtures are Pozidriv, not plain Phillips type)
- Torx TX8 & TX10 screwdrivers
- Loctite 243

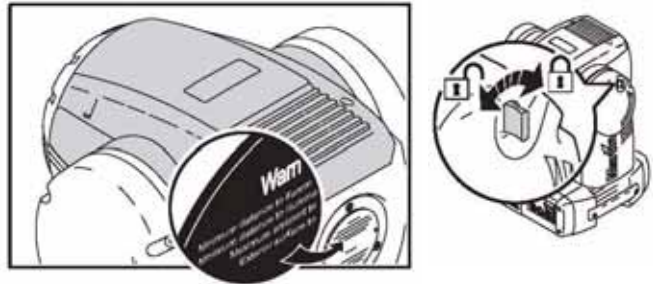
Note that if screws have been replaced during service, or for other reasons, you may find that other tools are required.

To help you avoid dropping screws into the fixture, we recommend that you magnetize tools.

# Replacement of components

To install the MAC 250 Reflector Kit in a MAC 250 Krypton or MAC 250 Wash fixture:

1. Disconnect the fixture from power, allow it to cool, and place it on a workbench. Take precautions against ESD (electro-static discharge).



**Figure 1**

2. Orient the head in the top-side-up position (indicated by the text on the lamp access panel being right-side-up) and lock the head in place using the tilt lock (see Figure 1).

3. Remove the top head cover by loosening the four quarter-turn screws (see Figure 2) using a flathead screwdriver and lifting the cover off.



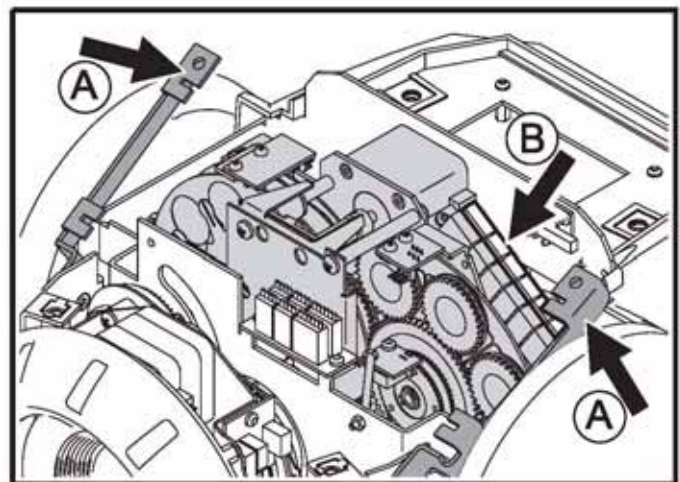
**Figure 2**

4. Locate the effects module and remove the wire connectors (located at position B in Figure 3).

5. Using a flathead screwdriver, unlock the screws (located at the positions marked A in Figure 3) and lift the locking arms.

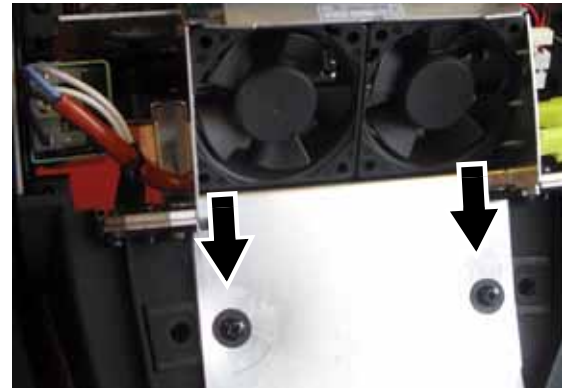
6. Carefully lift the effects module out of the fixture.

7. Unlock and flip the head over, and then re-lock it. Remove the bottom head cover by loosening the four quarter-turn screws (see Figure 2) using a flathead screwdriver and lifting the cover off.



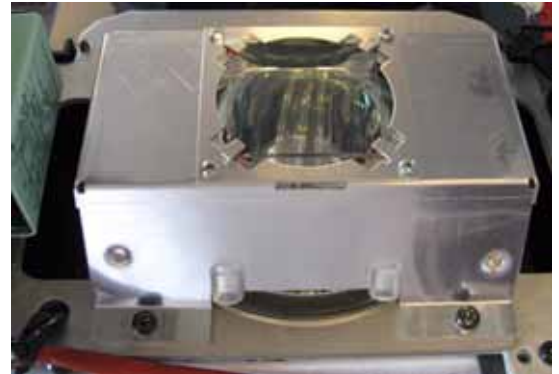
**Figure 3**

8. Unscrew the two screws that secure the fan assembly (see Figure 4) and lift it away (you do not need to disconnect it completely) so that you can access the heat shield.
9. Unscrew and remove the heat shield (see Figure 5).
10. Replace the four silicone tube pieces on the heat shield with the new ones supplied in the kit (part C).
11. Remove the old reflector from the fixture.



**Figure 4**

12. Place the centering frame supplied in the kit (part A) in the fixture (see Figure 6).
13. Place the new reflector supplied in the kit (part B) carefully into the centering frame (see Figure 6). Do not touch the lamp or the inside of the reflector with your fingers.



**Figure 5**

14. Apply Loctite 243 to the screws that will secure the heat shield and wipe off any excess.
15. Place the heat shield on top of the centering frame and reflector and secure it with the screws.
16. Replace the fan, applying Loctite 243 to the screws before securing them.
17. Insert the effects module back into the fixture. Using a flathead screwdriver, lock the screws (located at the positions marked A in Figure 3) to secure the arms that hold the modules in place.
18. Reconnect wire connectors as necessary (located at position B in Figure 3). Replace the top head cover by locking the four quarter-turn screws (see Figure 2) using a flathead screwdriver.



**Figure 6**

## Product information

For specifications and other information about the MAC 250, please refer to the user manual originally supplied with the fixture. The manual is also available for download from the Support area of the Martin website at <http://www.martin.com>.

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