Trouble shooting guide

If you have installed and connected the unit as per the instructions listed earlier and it does not function correctly, use the following table as a guide to fixing the problem. Look up the type of fault in the left column and check the possible causes from the right column.

No.	Fault	Possible causes
1	Red LED not lit	AC supply not connected; or AC supply turned off; or Battery plug not connected to battery pack; or Test switch damaged
2	Red LED is lit but AC lamp not lit when connected to mains	Switched active supply turned off; or Missing loop from unswitched to switched active; or Lamp damaged; or Lamp not inserted properly
3	LED is lit but lamp does not come on when test switch is pressed	Lamp damaged; or Lamp not inserted properly; or Battery pack damaged; or Test switch damaged
4	Lamp is lit momentarily when test switch is pressed; or when mains fails	Battery not yet charged (allow up to 24 hours); or Battery pack damaged

If the unit still does not work after checking these possible causes, contact ABB service in Australia on 1800 222 435, Monday to Friday, 7.00am to 5.00pm (AEST) and ask for help. Our trained service personnel will usually be able to take your call immediately and assist you in resolving your difficulty. ABB is committed to providing valuable through-life support for its products.

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Installation manual

Circular saturn Standard

Doc no. 29-01067

This document covers	What's inside the box
Safety warning	Circular saturn
Installation instructions	Installation manual
Removal instructions	Warranty information
Testing precautions	
Trouble shooting guide	

Congratulations

Congratulations on choosing to use this ABB product covered by our unique through-life support system. This document is designed to assist you during the installation of this product; for the safety of yourself and others **ABB recommends that you read this document thoroughly before commencing installation**. The fittings are designed for easy installation. They are advanced pieces of electronic equipment which, when treated with care and maintained through regular and appropriate servicing, will perform reliably for many years to come.

Safety warning

In Australia and New Zealand, only licensed electricians are permitted by law to work with 240 volt electrical installations.
Do not attempt to install or connect this product unless you are a licensed electrician.
Turn off and isolate the electrical supply before connecting this fitting to the building wires.
Do not touch the terminals of the terminal block when the light fitting is energised.
The only user-serviceable parts are the lamp and battery.
Do not tamper with the fitting or the warranty will be void.
As the installer, it is your responsibility to ensure compliance with all relevant building and safety codes, (ie: AS3000, AS/NZS2293). Refer to the applicable standards for data and mains cabling installation procedures and requirements.

Important note: This product is designed for indoor use only.

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Power and productivity for a better world™

Installation instructions

1. Remove the unit from the packing box and inspect it for damage or imperfections. If any damage is found, do not install the unit, but replace it carefully into the packing box and notify the ABB product support hotline in Australia on 1800 222 435.
2. If all looks okay, installation can proceed.
3. Remove the diffuser, unscrew the 2 top cover screws to remove the top cover; use a pencil to mark the position of the mounting screw holes for the fitting.
4. Route the mains cable through the cable entry hole. You need to protect the mains cable with a grommet, gland or bush as they pass through the cable entry hole. Secure the gear tray to the ceiling/wall with mounting screws (screws not supplied with the fitting).
5. Strip and connect the mains cable to the mains terminal block as shown in figure 2 using suitably sized screwdriver.

Figure 1: Circular saturn mains connection diagram maintained and non-maintained

Wire/fitting type	
Unswitched active	Wire to terminal A or US/A
Switched active	Wire to terminal S/A
Neutral	Wire to terminal N
Earth	Wire to terminal E or ⏚

6. Ensure that the stripped wire ends are completely inserted into the terminal block and no bare conductors are exposed to the metal. Be careful with multi-strand conductors that all of the strands are twisted together before insertion into the terminal. Any stray strands that inadvertently come into contact with their neighbouring terminal or the metal will cause undesirable results when the fitting is powered. Replace the top cover back on the gear tray. When replacing cover, make sure that the push button switch is in central to the hole in the top cover when securing as shown in figure 2.

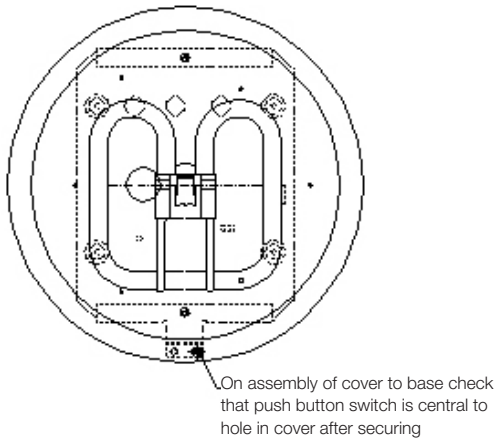

Figure 2: Showing push button switch in central when securing top cover

7. Fit the fluorescent lamp to the fitting. Always use the recommended lamp when replacing. Fit the diffuser.
8. Lamp operation;

– Maintained; once powered up, in a maintained fitting the normal AC lamp (if present) should light up and stay on until the power supply fails. The emergency function of the unit should only operate when the unswitched active power supply fails or when somebody presses the manual test button located on the fitting. Normal status of the fitting when powered indicating LED steady red. This indicates that the power is connected and the battery is charging.

– Non-maintained; once powered up, in a non-maintained fitting the present lamp stays off. The emergency function of the unit should only operate when the unswitched active power supply fails or when somebody presses the manual test button located on the fitting. Normal status of the fitting when powered indicating LED steady red. This indicates that the power is connected and the battery is charging.

9. Check the operation of the fitting to ensure that the installation was successful. When powered up, allow a few minutes to give the battery a small charge, then press the manual test button located on the fitting. Press and hold the test button for a few seconds and observe that the emergency lamp lights up and stays on until the test switch is released. If the lamp works only momentarily, this ensures that the connections are correct and the battery requires at least 24 hours to fully charge. If the lamp does not work at all, check the supply, the connections and the trouble shooting guide at the end of this document.

Removal instructions

1. Before removing the installed fitting, switch off the mains supply to the fitting.
2. Remove the diffuser and then unscrew the 2 top cover screws.
3. Unscrew the unswitched active, switched active, neutral and earth cable connection from the terminal block using suitably sized screwdriver.
4. Disconnect the battery plug from the battery and then unscrew the mounting screws of the gear tray.
5. When the fitting is reconnected to the supply, it will need time to recharge its battery before it will be capable of a full length discharge again.

Testing precautions

Once the fitting is permanently connected to the mains supply, a commissioning discharge test as required in AS/NZS2293.2 must be carried out. You will need to allow 24 hours for the battery to fully charge prior to conducting this test, presently (at the time of writing), the standard requires that fittings operate in emergency mode for a period not less than 2 hours for their commissioning test and for not less than 90 minutes thereafter (it is required that 6 monthly discharge tests be carried out). You will need to keep the records for the commissioning test and enter them into the building emergency services logbook or via other recording methods as allowed by AS/NZ2293.2.

Construction sites

Continuously switching of the mains power supply that is connected to emergency light fittings during the construction phase of an installation will cause these fittings to discharge and charge their batteries many times over a short period; this can shorten the life of the battery and will also result in shortened emergency lamp life. ABB does not recommend such practices and may not honour the warranty on batteries when they are subjected to such harsh operating conditions. Emergency light fittings are designed to be discharge tested once every 6 months as per AS/NZS2293.2, subjecting the product to repeated discharge or charge cycles is regarded as an abuse of the fittings.