User Manual

STROBE & VIBRATING PAD

Model : OM866HIA-10RF

ORCA®
You're in Safe Hands

INTRODUCTION

IMPORTANT: If you are installing this product for use by others, you must leave this manual (or a copy of it) for the end user.

Radio Frequency (RF) connection enables RF networking between RF connected products.

The Strobe and Vibrating Pad will provide warning of smoke and/or carbon monoxide danger when they are RF connected with smoke, heat and/or carbon monoxide (CO) alarms.

In addition to the audible sound from your smoke, heat or CO alarm, the flashing Strobe and Vibrating Pad will be triggered to alert those who may not be able to hear audible alarms. The flashing strobe provides a visual warning for waking hours, while the Vibrating Pad is designed to be placed under a pillow or a mattress and is suitable for waking an individual to alert them when an alarm sounds. If placed under a mattress, ensure the thickness of the mattress does not cushion the pad to the extent it cannot be felt adequately.

MAIN FEATURES

- This product can be RF connected to create a network, meaning if smoke or CO triggers any alarm in the network, all other networked alarms and ancillary devices activate.
- The Strobe provides a remote testing function for testing the RF connected devices, to avoid the end-user having the need to reach up to the ceiling to test the mounted alarms.
- Mains powered with rechargeable back-up battery (battery must be replaced after 5 years).
- The Strobe is suitable for wall mounting with 2 screws or can be free standing.
- Designed for use with smoke, heat and CO alarms from the Orca Gen 2 RF range.

Strobe and Vibrating Pad pack contains:

1. Strobe light with integrated control unit (referred to as “strobe”)
2. Vibrating Pad to be placed under pillow or chair (referred to as ”pad”)
3. AC Mains power adapter, 100-240V, 50-60Hz 0.2A, Output: 12.0V 0.5A 6.0W
4. Ni-MH Battery - Replaceable, rechargeable battery
5. Wall fixing screws

NOTE: The Strobe and Vibrating Pad are only compatible with RF connected alarms from the Orca Gen 2 Wireless Range. They cannot be RF connect with other manufacturer’s products.

INSTALLING THE STROBE AND VIBRATING PADS

PREPARATION: Please ensure you have read and understood this user manual before installing your Strobe and Vibrating Pad.

It is recommended that for maximum protection from smoke/heat and/or carbon monoxide, one RF alarm is fitted in each living room of your home, including bedrooms, and one RF CO alarm is fitted in every room containing a fossil-fuel appliance, connected to your Strobe and Vibrating Pad.

NOTE: Up to 30 Wireless RF enabled smoke alarms/heat/CO alarms and/or RF connection accessories can be RF connected to a single network.

Ensure all smoke/heat/carbon monoxide alarms to be used are installed, tested and working correctly as per the instructions in their respective user manuals.

CONNECTING THE BATTERY / MAINS POWER

NOTE: The Strobe and Vibrating Pad require both an AC (mains) electrical supply and internal battery for their normal operation. The battery accompanying this product is rechargeable and charges when there is mains power to the Strobe.

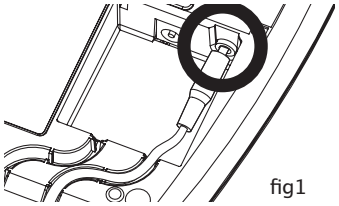


fig1

1. Plug the Vibrating Pad connector into the Strobe (as shown in fig1). Route the wires through the wire guide.
2. Remove the battery door at the back. Connect the rechargeable battery, by aligning the terminals (black wire on left to red wire on right) and pushing the connectors together.

CAUTION: Connect the battery with mains power disconnected.

3. Place the battery into the recess.The battery cable needs to be positioned underneath the battery. Place the cable at the bottom of the recess with the battery lying over the top with the text on the battery face down. This will ensure that the battery is installed correctly.
4. Replace the battery cover.
5. Plug the power cable into the Strobe. Route the wire through the wire guide (fig3).
6. Plug the mains adaptor into a 230V socket and turn the power on. The green power LED should illuminate.

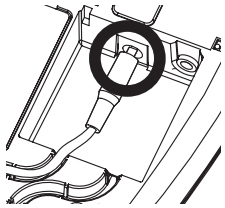


fig2

BATTERY CHARGING INSTRUCTION

NOTE: The battery is supplied in a discharged or partially discharged state and will require up to 24 hours of charging (continuous connection to the mains supply) to ensure that it is fully charged.



During this period the amber fault LED may flash once every 5 seconds to indicate that the battery is low. The following tests however may be carried out before the charging is complete.

LED indication:	Condition Indicated:	Action:
Amber fault LED 1 flash every 5 seconds	Flat Backup Battery	Insufficient battery power to power the strobe. Charge the battery. Not recommended to do wireless pairing in this case.
Amber fault LED 2 flashes every 5 seconds	Low Backup Battery	Insufficient battery power to power the strobe. Charge immediately. Not recommended to wireless pair until battery charged.
Amber fault LED off	Sufficient Backup Battery	Backup Battery power is sufficient without AC mains for 72 hours. User may do the wireless pairing in this period.

For Details, see section “Product Indicator (LEDs)” for details of action required.

WIRELESS CONNECTING THE RF STROBE AND VIBRATING PADS TO THE RF SMOKE/HEAT/CO ALARMS

It is recommended that you read through these wireless RF connecting instructions before starting. There are two programming methods to connect the Strobe to other Orca Gen 2 Wireless Range.

Method 1: Programming setting the Strobe as the master, and let other devices join the wireless network.

1. Place one of your smoke/heat/CO alarms onto its base plate. You will use this alarm to connect with the Strobe to create a network.
2. Hold the Test button of the Strobe for 10 seconds.
3. The red LEDs on the front will continue to illuminate to indicate the strobe is the in RF pairing mode.
4. During this period, press the pairing button 2 times on the smoke/heat/CO alarm to RF pair the two products. The red LED on the alarm will flash 5 times.
5. After RF connecting the Strobe and Vibrating Pad to the alarms, test the units individually to ensure they are connected in the network correctly.

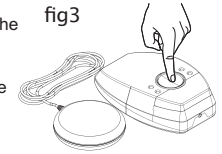
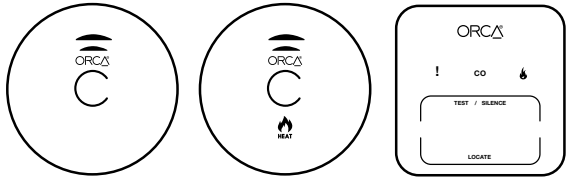


fig3

Method 2: Programming using another device as the Master, and let the Strobe connect to the network

1. Locate the RF pairing button on the alarm you will be using as the Master. If you are unsure where it is, read the instruction manual for that alarm which can be found on the Orca website (www.orcasafety.co.nz).



2. Press the pairing button on the Master and hold it for 10 seconds.
3. The red LEDs on the front of the Master will continue to illuminate to indicate the RF device is in pairing mode.
4. Press the Test button on the Strobe 2 times (fig.3). The red LED on the Strobe will flash 5 times.

After pairing the Strobe and Vibrating Pad with the alarms, test the units individually to ensure they are correctly connected.

NOTE: The amber fault LED will flash (once per 1 second) if the Vibrating Pad is not correctly installed.

NOTE: The amber fault LED will flash (twice per 1 second) when no RF device has yet paired to the strobe. Once the strobe has paired to a RF network, this indication will automatically switch off.

Once the Strobe and Pad are paired to the other alarms, all products can be installed. We recommend you install smoke and heat alarms before installing the Strobe and Pad.

Clear the Strobe's RF Pairing Memory from the wireless network.



In the event that you need to clear the RF Pairing Memory of the Strobe from a network (e.g. moving house) you will need to remove it from the network using the following procedure:

1. Briefly push and release the test button 5 times (fig.3).
2. The red LEDs on the front of the Strobe will illuminate 5 times after you push the button.
3. Press the test button on the Strobe. It should not cause other wireless paired alarms to goes off. If the Strobe is still paired, repeat the above procedure.

IMPORTANT: If you wish to remove the Strobe and Vibrating Pad from the wireless network, it is important to clear the RF memory of **all network unit/s** and reconnect all necessary RF devices to a new network. Failure to do so means that the unit continues to try and communicate with the removed unit, and will result in a system fault.

LED indication:	Condition Indicated:	Action:
Amber fault LED 1 flash every 1 second	Vibrating Pad is not connected to the strobe.	Reconnect Vibrating Pad to Strobe.
Amber fault LED 2 flashes every 1 second	No RF device has been connected to the strobe yet.	User are required to wireless pair the strobe with other Red RF devices. Upon successful networking. This indication will automatically switch off.

For Details, see section "Product Indicator (LEDs)" for details of action required.

TESTING THE STROBE LIGHT AND VIBRATING PAD WITH SMOKE / HEAT ALARMS

Testing the network from the smoke alarm or heat alarm.

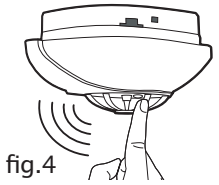


fig.4

Strobe Light: The Strobe will flash and the corresponding red (alarm) LED will also flash.

Vibrating Pad: The Vibrating Pad will vibrate.

Auxiliary (Clock): check section "CLOCK INPUT SOCKET" for details.

Repeat the procedure with all alarms in the wireless network.

Testing the network from the Strobe Light

Briefly press the test button for 3 seconds on the Strobe and release. The Strobe will flash, and the Vibrating Pad will vibrate. At the same time, any alarm that is RF paired to the network will also go off.

The red LEDs on strobe will flash for 5 seconds and continue to illuminate for 60 seconds, the Pad will vibrate for 5 seconds. The test mode will last for 60 seconds. To deactivate the Strobe from the test mode, briefly press the test button once again. This confirms that all units are wirelessly paired.

Activation / Deactivation	Strobe Indication:	Pads Indication:
Activate test mode: hold the test button for 3 seconds. (test mode will last for 60 seconds)	Red LEDs flash rapidly for 5 seconds, then stay solid.	Vibrate for 5 seconds.
Deactivate the test mode: press the test button for 1 time.	Red LEDs will turn off	N/A

Testing

It is recommended that a self-test of all the units in your RF network is carried out weekly.

In addition the network should also be tested whenever:

- An additional alarm or ancillary product is added to the system.
- There are changes to the structure of your property.
- There are significant changes in the position of large items of furniture or electrical products in your home.
- You replace the battery in any product within the RF network.
- The Strobe and Vibrating Pad are now ready to be placed into position.

POSITIONING

Where should the Strobe and Vibrating Pad be installed?

If you have one Strobe and Vibrating Pad, it should be installed in the main room where you sleep. You may add additional Strobes and Vibrating Pads to the network and install them in any room where you may need to be alerted in the event of an alarm. It is important that if you install additional Strobes and Vibrating Pads you test each of these upon installation to check they have connected to the rest of the network.

Wireless Range: The wireless range of RF products is over 100 metres in clear air/ clear line of sight.

However it is recommended not to exceed 30m as the maximum distance between any RF connected smoke alarm/heat/carbon monoxide alarm and the Strobe and Vibrating Pad. This is because the range can be reduced by walls, and other obstructions in the building.

Position the Vibrating Pad:

- Under your pillow or mattress.
- Under a cushion on a chair where you are likely to fall asleep.
- Test and check that the Vibrating Pad can be felt in all circumstances where you may fall asleep. Ensure it is placed securely and cannot fall out – ideally within the pillowcase or cushion cover.

Position the Strobe:

- Close to a power socket where it can be easily plugged in and the cable does not create a tripping hazard.
- Where you can see the Strobe flashing from anywhere in the room.
- Where you can see the LEDs on the front of the unit.

NOTE: The Strobe can be fitted to a wall or it can be placed on a table.

CAUTION: Do not put the Strobe and Vibrating Pad:

- Outside the building.
- In a damp or humid area.
- In an area where the temperature could regularly drop below –5°C or rise above 40°C.
- Anywhere where the units can easily be knocked or damaged.

INSTALLING THE STROBE LIGHT

Make sure the Strobe is visible from anywhere in the room.

To wall mount the Strobe drill two suitably sized holes 30mm apart, centre to centre, using the template (fig5.1) (Warning - make sure that you check for electrical cabling and pipework hidden in the wall before carrying out any drilling).

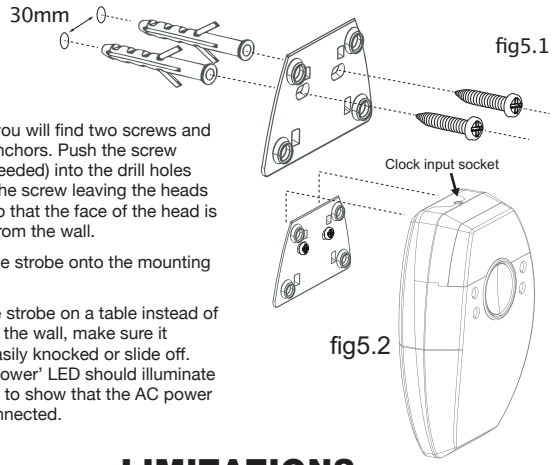


fig5.1

In the pack you will find two screws and two screw anchors. Push the screw anchors (if needed) into the drill holes and secure the screw leaving the heads protruding so that the face of the head is 5mm away from the wall.

Now hook the strobe onto the mounting bracket.

If placing the strobe on a table instead of mounting on the wall, make sure it cannot be easily knocked or slide off. The green 'Power' LED should illuminate continuously to show that the AC power supply is connected.

fig5.2

LIMITATIONS

- The Strobe and Vibrating Pad will not operate in isolation, with non-RF Alarms, or any alarms made by other manufacturers.
- The separate units making up the Strobe and Vibrating Pad cannot be interchanged with those of other manufacturers and an attempt to do this may render the whole system unsafe.
- The Strobe and Vibrating Pad may not respond to the signal from a RF alarm if the alarm and the Strobe containing the control box are too far apart.
- The Strobe and Vibrating Pad may not respond to the signal from a RF alarm if there are obstructions that significantly reduce the signal (e.g.: steel reinforcement in concrete). Always test the operation of the Strobe and Vibrating Pad with all other alarms and units in the network after any changes to the building structure or in the position of large items of furniture.

DANGER: Under no circumstances should this product be immersed in water, or used in an area where water may come into contact with the product.

OPERATION

Standby Mode

The Strobe should be connected to the mains AC supply with the Vibrating Pad connected, and placed in a suitable position. The green "power" LED on the strobe will be permanently illuminated

Alarm Mode

Strobe – Flashing strobe and Fire red LED flashing

Pad – Vibration warning

When a RF paired smoke or heat alarm goes into "alarm" mode, the Fire red LED will illuminate, the Strobe will continuously flash and the Vibrating Pad will continuously vibrate.

The way in which the Strobe and Pad alerts a warning is the same for both alarm types, i.e. the Strobe will flash and the Pad will vibrate in exactly the same way, irrespective of whether the alarm is triggered by a smoke alarm or heat alarm.

NOTE: The Strobe will stop flashing, the red LED will cease to flash and the Vibrating Pad will stop vibrating when the alarm sending the signal has been reset or has stopped if the danger is no longer present.

Only reset an alarm if you are certain there is no imminent danger from fire.

Locate Feature

When the network is in alarm mode, pressing the test button on any unit in the network will silence all other alarms in the network, for a period of 2 minutes, except the alarm that has sensed smoke or heat. This will enable the instigating alarm to be located.

UNPLUGGING FROM THE MAINS / POWER CUT

The Strobe and Vibrating Pad is designed to be mains powered. The internal rechargeable battery will still provide power if the mains is disconnected. A fully charged battery will allow the Strobe and Vibrating Pad to continue to operate for 72 hours. Only use the battery supplied in the pack or a genuine replacement. Other rechargeable batteries may damage the equipment or create a safety hazard.

WARNING: When the mains power is disconnected, the green power LED will no longer illuminate and the amber (Fault) LED will double flash every 5 seconds. Plug the Strobe back into the mains as soon as possible to recharge the battery and maintain operation.

If the amber LED is flashing once every 5 seconds when the green power LED is off then URGENTLY restore power to the unit as battery charge state is very low, and may fail to operate in an alarm situation.

NOTE: Once the Strobe is plugged back into the mains, the amber (Fault) LED will continue to flash twice every 5 seconds until the battery has fully recharged.

See "BATTERY CHARGING INSTRUCTION" for details.

PRODUCT INDICATORS (LEDs)

STATUS	STROBE / PAD ACTIVITY	POWER (GREEN)	FIRE (RED)	CO (RED)	FAULT (AMBER)	ACTION NEEDED
Connect AC Power		1 flash	1 flash		1 flash	None required.
Standby Mode		Illuminated				None required.
Fire Alarm Mode	Strobe flashes / pad vibrates	Remains illuminated (if AC power is connected)	Flashes rapidly			Fire alarm - evacuate property immediately.
CO Alarm Mode	Strobe flashing / pad vibrating	Remains illuminated (if AC power is connected)		Flashes rapidly		Carbon monoxide alarm - evacuate property immediately.
Strobe in Test Mode	Strobe flashes / pad vibrates rapidly for 5 seconds	Remains illuminated (if AC power is connected)	Flashes rapidly for 5 seconds and remains illuminated for 60 seconds (unless deactivated)	Flashes rapidly for 5 seconds and remains illuminated for 60 seconds (unless deactivated)		Activate the test mode by holding the test button for 3 seconds. Deactivate the test mode by pressing the test button 1 time.
Vibrating pad is not connected to strobe		Remains illuminated (if AC power is connected)			1 flash per second	Reconnect the vibrating pad to strobe.
No RF device paired with the strobe		Remains illuminated (if AC power is connected)			2 flashes per second	Wireless pair the strobe with other Orca RF devices.
Unit Fault		Remains illuminated (if AC power is connected)			Flashes rapidly	Contact technical support (Refer to contact details)
Flat Backup Battery		Remains illuminated (if AC power is connected)			1 flash per 5 seconds	Insufficient battery power to power the strobe. Charge immediately. Not recommended to wireless pair until battery charged.
Low Backup Battery		Remains illuminated (if AC power is connected)			2 flashes per 5 seconds	Insufficient battery power to power the strobe. Charge immediately. Not recommended to wireless pair until battery charged.

For further fault light issues relating to battery, see section **"BATTERY CHARGING INSTRUCTION"**.

For further fault light issues relating to RF connection, see section **"WIRELESS CONNECTING THE RF STROBE AND VIBRATING PADS TO THE RF SMOKE/ HEAT/CO ALARMS"**

WHAT TO DO IF YOUR STROBE LIGHT AND VIBRATING PAD GOES INTO ALARM

CAUTION: In all circumstances assume your Strobe situation that has been triggered by either a smoke or CO alarm.

The type of incident triggering the Strobe and Vibrating Pad to go into alarm is indicated on the Strobe:

Fire alert
The Fire (red) LED will flash

Carbon Monoxide alert
The CO (red) LED will flash

Fire and CO alert
The Fire & CO (red) LEDs will both flash

WHAT TO DO IN THE EVENT OF A SMOKE ALARM OR HEAT ALARM TRIGGERING THE STROBE LIGHT AND PAD

What to do in case of a fire in your home

If you have made a family escape plan and practiced it with your family, you have increased their chances of escaping safely. Go over the following rules with your children each time you have a fire drill. This will help everyone remember them in case of a real emergency.

- Don't panic. Stay calm. Your safe escape may depend on thinking clearly and remembering what you have practiced.
- Notify every member in the residence of the fire. Get out of the house as quickly as possible. Follow a planned escape route. Do not stop to collect anything or to get dressed.
- Feel the doors to see if they are hot. If they are hot, do not open them - use an alternative escape route.
- Stay close to the floor. Smoke and hot gases rise. Cover your nose and mouth with a cloth (wet if possible). Take short, shallow breaths.
- Keep doors and windows closed. Open them only if you have to in order to escape.
- Meet at your planned meeting place after leaving the house. Carry out a head count.
- Call the fire service on 111 as soon as possible from outside your house. If possible use a neighbour's phone or call box rather than a mobile phone (as the location can be traced from the number if the line is lost). Give the address and your name.
- Never go back inside the building until a member of the fire service has told you it is safe to do so.

If after proceeding with extreme caution you have been able to confirm that your Strobe and Vibrating Pad System was triggered by a nuisance alarm (which may occur from time to time from cooking or other non-emergency situations) you should silence the alarm that has been triggered. This will stop the Vibrating Pad from vibrating and the Strobe from flashing. It is important to practice escape plans and show everyone in the house, including children, what to do in the event of an alarm.

WHAT TO DO INTHE EVENT OF A CARBON MONOXIDE ALARM TRIGGERING THE STROBE AND PAD

Assume carbon monoxide has been detected in your home!

WHAT TO DO IN THE EVENT OF A CO ALARM

WARNING: A loud alarm is a warning that unusually high and potentially lethal levels of carbon monoxide are present. Never ignore this alarm; further exposure could be fatal. Immediately check residents for symptoms of carbon monoxide poisoning, (see product manual) and contact the proper authorities to resolve all CO problems.

NEVER IGNORE ANY ALARM.

What to do during an alarm

- Keep calm and open the doors and windows to ventilate the property.
- Stop using all fuel-burning appliances and ensure, if possible, that they are turned off.
- Evacuate the property leaving the doors and windows open.
- Ring your gas or other fuel supplier on their emergency number; keep the number in a prominent place.
- Do not re-enter the property until the alarm has stopped. When exposed to fresh air, it can take up to 10 minutes for the sensor to clear and the alarm to stop depending on the level of carbon monoxide detected.
- Get medical help immediately for anyone suffering the effects of carbon monoxide poisoning (headache, nausea, drowsiness), and advise that carbon monoxide poisoning is suspected.
- Do not use the appliances again until they have been checked by an expert. Contact a Gas Safe registered engineer in the case of a gas appliance.

Assume carbon monoxide has been detected in your home!

DISABLING THE VIBRATING PAD FROM THE STROBE FUNCTION TO ENABLE THE USE OF STROBE ONLY

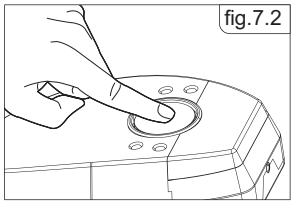
Proceed this set up straight out of the package:

Do not switch "ON" the socket. Plug the power cord into the back of the strobe. Do not connect the backup battery to Strobe. (fig 7.1)



Press and hold the test button of the Strobe (fig 7.2)

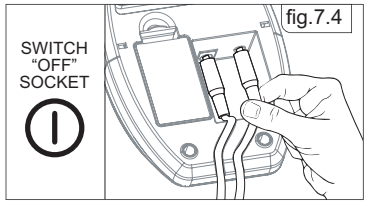
Switch "ON" the switch. Continue to hold the test button for about 5 seconds. The strobe will flash both red LEDS. (fig 7.3)

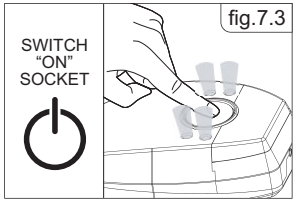


Release the test button and connect the battery.

NOTE: The strobe will not display fault system due to disconnected Vibrating Pad. You can RF connect the strobe to the RF network.

If the Vibrating Pad is disconnected but system still display fault signal, please operate the above steps again for correct disconnection.





To remove the Vibrating Pad from RF network:

1. Switch "OFF" the socket power. Disconnect the backup battery. Disconnect Vibrating Pads from the Strobe Unit (fig.7.4)
2. Press and hold the test button of the Strobe. (fig.7.2)
3. Switch "ON" the socket power. Continue to hold the test button for about 5 seconds. The strobe will flash both red LEDS. (fig.7.3)
4. Release the test button and connect the battery.

NOTE: The Vibrating Pad can be reconnected at any point and will operate correctly.

CLOCK INPUT SOCKET

A suitable alarm clock can be connected to the Strobe through the 3.5mm mono jack plug to the input socket on the strobe (fig.8). The alarm clock signal is 5 to 24 Volts AC or DC output – electrically isolated from the mains supply)

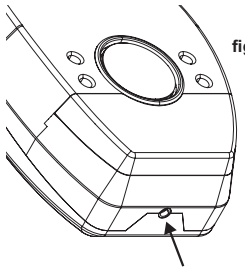


fig.8

When the alarm clock triggers, the vibrating pads will turn on continuously to wake the person. This will not activate the internal strobe or other auxiliary outputs. So, the end-user will know this is a wake-up call instead of fire.

NOTE: In order for the clock to trigger the vibrating signal, the vibrating pads must be connected to the strobe.

REPAIR

WARNING: DO NOT attempt to repair your Strobe and Vibrating Pad System. Your Strobe and Vibrating Pad is a sealed AC electrical device, and no attempt should be made to open the casing on any part of the system. Attempting to open any case will:

- Damage your system.
- Possibly result in exposure to a potentially lethal electric shock.
- Impair its operation.
- Invalidate your warranty.

If your Strobe and Vibrating Pad is not working correctly and you are unable to resolve the problem after consulting the “Troubleshooting” section, please contact Technical Support.

The battery provided has been chosen specifically for this application but will need to be replaced every 5 years under normal operating conditions. If during normal operation (i.e. connected to the mains supply for at least 72 hours) the amber LED flashes once every 5 seconds while the green LED is illuminated, contact Technical Support for advice.

IMPORTANT: Do not replace with any other type of battery.

WARRANTY

This Strobe and Vibratory Pad are warrantied to be free from defects in materials and workmanships under normal use and service for a period of ten years from date of purchase.

This warranty does not cover malfunction or damage resulting from accident, misuse or abuse or lack of reasonable care of the product. This warranty is in lieu of all other express warranties, obligations or liabilities.

NEWFIELD GROUP LTD (NEWFIELD) will not be obligated to repair or replace parts which are found to be in need of repair because of misuse, damage or alterations occurring after the date of purchase.

The liability of NEWFIELD arising from the sale of this Strobe and Vibratory Pad shall not in any case exceed the cost of replacement of the product.

NEWFIELD shall have no liability for any personal injury or property damage, or any special incidental, contingent or consequential loss or damage of any kind resulting from a fire. The exclusive remedy for breach of the limited warranty contained herein is the repair or replacement of the detective product at NEWFIELD’s option. In no case shall NEWFIELD’s liability under any other remedy prescribed by law exceed the purchase price.

Send the Strobe and Vibratory Pad with proof of purchase, postage and return postage prepaid, to your local supplier.

Your alarms are not a substitute for property, disability, life or other insurance of any kind. Appropriate coverage is your responsibility. Consult your insurance agent.

This does not affect your statutory rights. This alarm is only suitable for single occupancy private dwellings only and not intended for multi occupancy private dwellings or commercial or industrial dwellings.

DISPOSAL

Waste electrical products should not be disposed of with normal household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

CE

Frequency: 868.3 MHz

Hereby, Newfield Group Ltd, declares that this OM866HIA-10RF is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

OM866HIA-10RF

Manufactured for
Newfield Group Ltd
Christchurch
New Zealand
03-348-0799
www.orcasafety.co.nz

Issue: Mar 2024