Terry

total lift solutions

USER MANUAL

Harmony Series 2 Homelift Through Floor Lift

Original instructions

CONTENTS

INTRODUCTION

Thank you for choosing the Harmony Lift, designed and manufactured in the U.K. using the latest technology by Terry Group Ltd. We want you to get the most out of your Harmony Lift and to help in this aim we have produced this small booklet on operation and maintenance of the equipment, which we hope you will find helpful.

It is hoped that any queries you may have during day to day operation will be answered in the text, but if you do have any problems, technical assistance is only a phone call away.

We hope our product gives you many years of reliable service.

Peter Morrey
Managing Director

DESCRIPTION

The Harmony Homelift ‘N’ is an inter floor lift that is designed for use by persons with impaired mobility travelling between fixed floor levels in private dwellings.

With a maximum carrying capacity of one person, with or without a wheelchair, this lift is not intended for use as a means of transporting goods.

The lift is designed to operate without a lift shaft and is provided with an automatic infill panel which makes the ceiling aperture safe when the lift is parked downstairs.

An optional telephone can be supplied in the car for emergency communication.

A standard feature is the provision of half hour fire rated panels in both the aperture infill and the car underpan.

The lift car panels are made from powder coated steel which can easily be cleaned using normal household cleaners. Upholstery is made from PVC and can be cleaned in the same way.

A smoke detection system has been installed on your lift. It has been designed to provide adherence to British Standard BS5900 2012 Section 9.13 “Behaviour of homelift in the event of fire”.

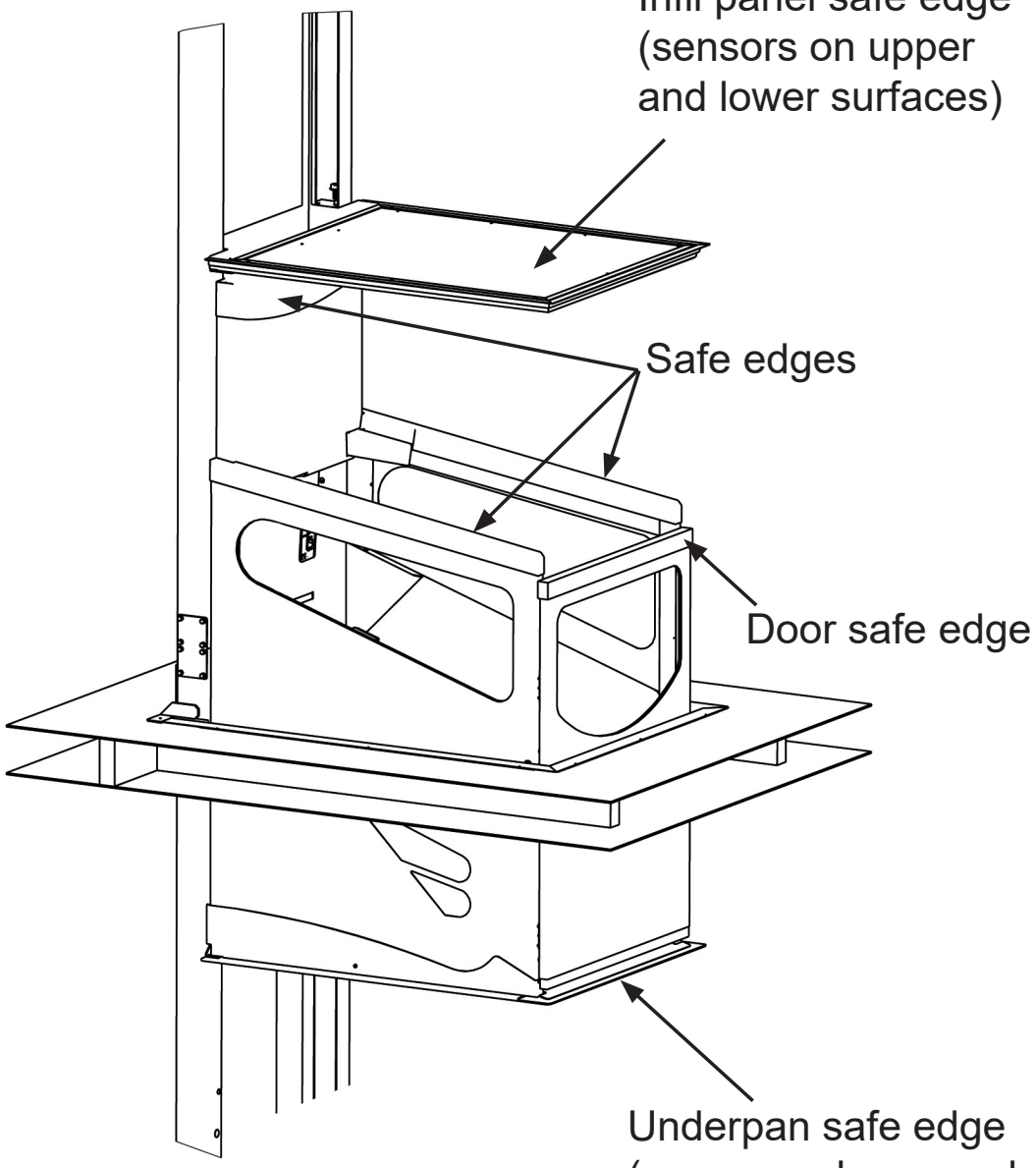
GENERAL DO'S AND DON'TS

- Never switch off the power supply to the lift, even when you go away. The lift control circuits are fed by a battery, which must be kept on constant charge.

- The lift should always be returned to the lower level when not in use. If it is left upstairs for prolonged periods, it will occasionally re-level itself depending on conditions. The lift must be left at the lower level if the mains is turned off.

- If your lift is fitted with a manual door always close it after use. Powered door units have a self closer. Do not pull or push the automatic door.
- Never allow children to play in, under or around the lift. If children are in the house, isolate the lift using the optional remote control fob, see pg 8.
- Ensure that the area under the lift is kept clear. The underpan surface is fitted with sensors, which automatically stop the lift if it strikes an object (see Fig.1).
- Always keep your emergency door release key and key fob in the lift or in a safe place near the lift.
- Do not place any object on the aperture infill or stand on it when the lift is in operation. Ensure that as far as practical, the area around the travelling infill panel is clear of persons (particularly children) when the lift is being operated. This is to ensure there is no danger of them falling into the car when the lift is in use. The infill panel is fitted with sensors that automatically stop the lift if the infill panel is obstructed (see Fig.1)
- Do not use this lift for anything other than transporting those with impaired mobility between fixed floor levels
- Do not lean over the car sides or door. These are fitted with safety edges which will stop the lift if activated.
- Always treat your lift with respect that should be shown to electrical and mechanical equipment.
- Users with wheelchairs should apply the brakes on their chair and all other users should ensure they are using the seat provided before moving the lift. Do not travel in the lift unless seated.
- Safety related components should only be adjusted and reset by a competent person.

Proceed with caution when exiting the carriage backwards
The diagram below (Fig.1) shows the position of all the sensors on the lift, designed to prevent injury or damage if the movement of the carriage is obstructed.



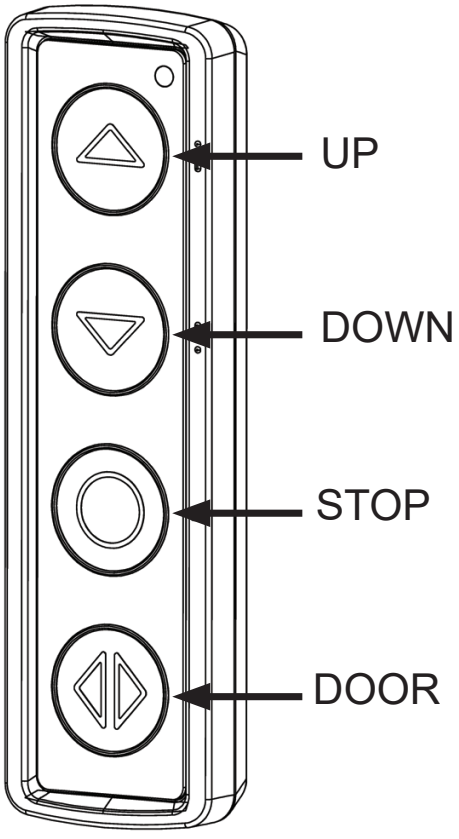
Harmony lift shown part-way through aperture

Fig. 1

CONTROLS AND OPERATION

There are two wall mounted call stations, one at each level (see Fig.2) and a similar control station fitted in the lift car. The lift can be isolated by using the optional remote control fob. When the lift is isolated, none of the control stations will function. The call and control stations can only be activated by using the remote fob. When the lift is activated, the coloured indicator lights in the car will illuminate. The lights in the car will switch on automatically when any call or control button is pressed and will automatically turn off after a few minutes.

Once the lift has been stopped it cannot be restarted for 3 seconds.



Wall mounted call station

Optional remote isolate fob

Fig. 2

Users with wheelchairs should apply the brakes on their chair and all other users should ensure they are using the seat provided before starting the lift.

General operation

Call the lift by pressing the UP or DOWN button on either call station and wait for it to stop. The door will automatically open. Enter the lift and press and release the door button to close it. Then press and release UP or DOWN on the control station. The lift will travel uninterrupted to the next floor. If the lift does not start, check that the door is properly closed and try again. Always close the door after using the lift by pressing the DOOR button on the wall mounted call station. The lift should always be returned to the lower level when not in use.

In the event that the normal controls fail to work, emergency controls can be found under the flap above the mirror. Green is ‘UP’, red is ‘STOP’, black is ‘DOWN’ and white is ‘DOOR’. See Fig.3

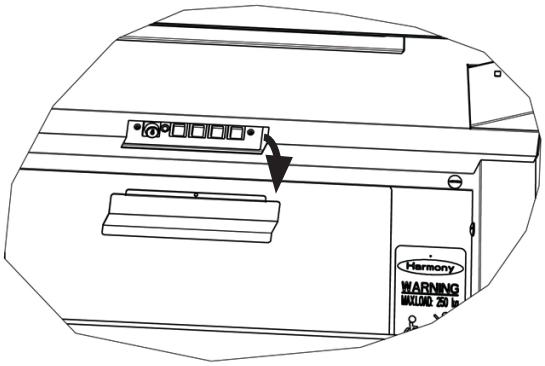


Fig. 3

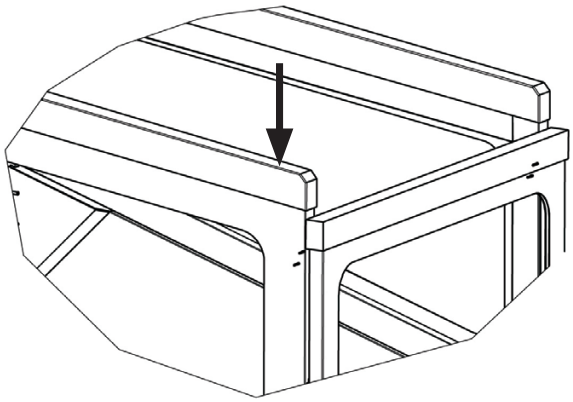
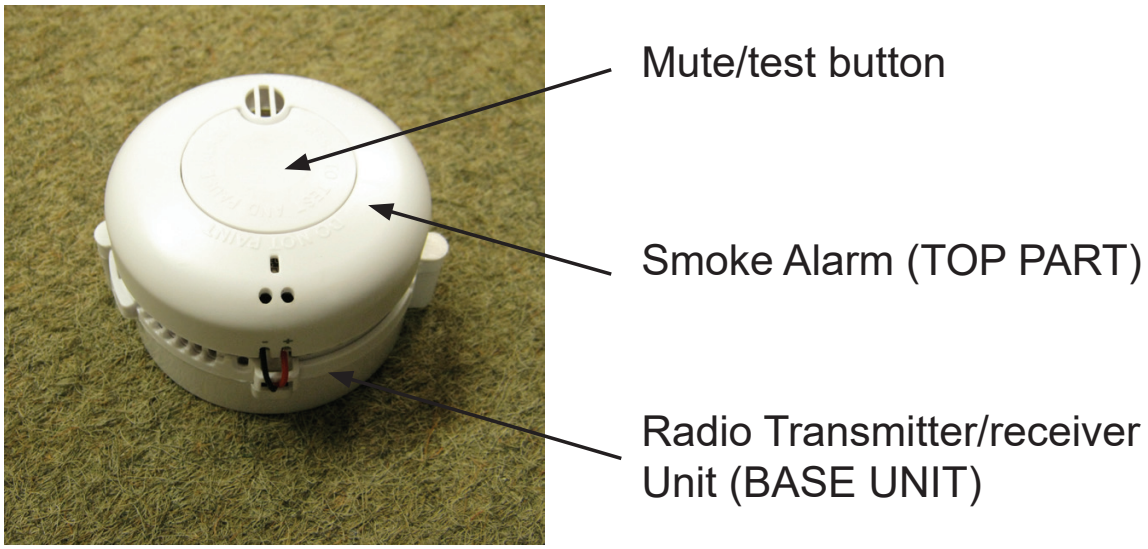


Fig. 3a

When outside the car, in an emergency the door can be opened by pressing the front end of the side safe edge, on the corner where the door opens (See Fig.3a).

SMOKE ALARM

A smoke detection system has been installed on your lift. It has been designed to provide adherence to British Standard BS5900 2012 Section 9.13 “Behaviour of homelift in the event of fire”. The system utilises two smoke alarms one upper level, one lower level, which are wirelessly connected to the main circuit board on the lift (see illustration below).



The Smoke Alarm unit comprises two parts, the first (TOP PART) being a Smoke alarm unit. This is the Smoke detection unit and contains an integral battery with a 10 year life span. This is not replaceable.

The second part (BASE UNIT) contains the radio transmitter receiver unit. Power to this unit is supplied by two AA style Lithium batteries. The voltage level of the batteries is monitored. In the event of a low battery, a sounder in the carriage will beep (see Fault Finding pg.14). If the batteries are not replaced, the lift will be taken out of service.

Radio smoke alarm operation

When installed on a Harmony Lift, the smoke alarm system will cause the lift to deactivate safely once the alarm is triggered. When deactivated, the door will continue to operate as normal.

When the Lift is stationary at either level:

If smoke is detected, the alarm will sound. After a period of time, all other smoke alarms connected to the system will then start to sound and the lift deactivates.

When the Lift is travelling between levels:

If smoke is detected, the alarm will sound. After a period of time, all other smoke alarms connected to the system will then start to sound.

The lift will continue to its requested level, it will remain possible (until that level is reached) to change the direction of the lift. Once at the desired level, the lift will deactivate.

Reactivation of Lift

The lift will automatically reactivate when the smoke alarm no longer detects smoke and a period of two minutes has expired.

Silencing the Smoke Alarms

In either situation, it is possible that the sounder of each individual alarm can be silenced. The alarms that has been set off *remotely* can be silenced by pressing the both the STOP and DOOR button on one of the lift handsets. Then the alarm that has been triggered *by the smoke* can be silenced by pressing the mute button on the alarm itself. Doing this will silence the alarms for four minutes. When silenced, the lift will automatically reactivate when a period of two minutes has expired. If the source of smoke is not removed, the smoke alarms will begin to sound again and the lift will be disabled.

EMERGENCY PROCEDURES

In the event of a mains failure during travel, the battery backed control system of the Harmony will allow normal operation in the down direction without loss of any safety features. This allows the user to exit the car at the lower level in the normal way.

Emergency Manual Lowering

IMPORTANT:
During emergency manual lowering, the normal safety features will not function, so the lift will not stop if a person, pet or object is under the lift.

- The exact lowering procedure must be observed, because the normal safety features will not function during manual lowering.
- The emergency lowering procedures should never be used if the lift is fully up or no one is trapped in it.
- The emergency lowering procedures should also never be used as the normal down travel function until an engineer attends.

PLEASE NOTE:
If the lift is fully upstairs and a person is trapped inside, please see the section Emergency unlocking (see pg13).

If the lift has stopped mid level and the customer is unable to get the lift up or down then the **only** time it should be lowered by the emergency valve is if:

- There is a second person (B) around the lift area at the lower level to ensure that nothing goes under the lift during the lowering by the first person (A);
- OR the person lowering the lift has sight of the area under the lift .

Person A

- Ensure the door is fully closed.
- Turn the mains supply to the lift off.
- Locate the hydraulic power unit, normally outside the property (see Fig. 4).
- Swivel the small metal cover plate on the front face of the housing to reveal an access hole (see Fig. 4).
- The red cord revealed in the access hole now needs to be pulled continuously to lower the lift car slowly.

- After 5 seconds release button and check with person B that the trap door is following the carriage. If so continue to lower
- Once the lift is at the lower level turn the mains supply back on.

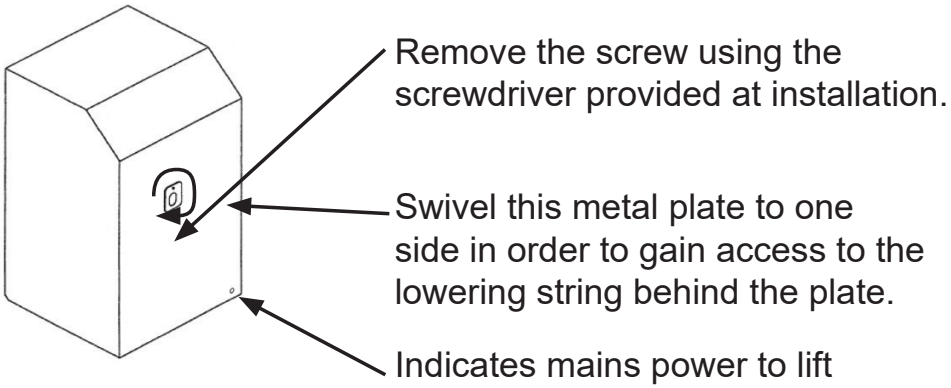


Fig. 4

Person B

Remains in the house by the lift and communicates with Person A to ensure the safe lowering of the lift.

- Ensure that no object, person or pet are in the path of the lift travel
- Confirms that the trap door follows the lift during descent and locates fully in the floor to guard against the possibility of anyone falling down the lift way.

Emergency unlocking

WARNING: RISK OF FALLING – Emergency unlocking must only be undertaken when the lift is at the upper or lower landing level.

The lift car door is designed so that it will only open when the lift is at or within 25mm of each floor served. If for any reason the door cannot be opened, the door lock can be over-ridden from the inside using the following steps:

- Remove the black rubber grommet by the door.
- Insert the black emergency door release key into the square hole behind the grommet.
- Turn the key to release the mechanism.

This should release the catch. The door can be opened from the outside in the same way.

The electrically operated door on the wheelchair model can be forced open or closed manually. This will disengage the door from the opening mechanism and require re-setting of the door. Re-setting of the door can be done as follows:

- Manually close the door as far as possible.
- Press and release the door button.
- Move the door back and forth until it clicks.
- Press and release the door button again.

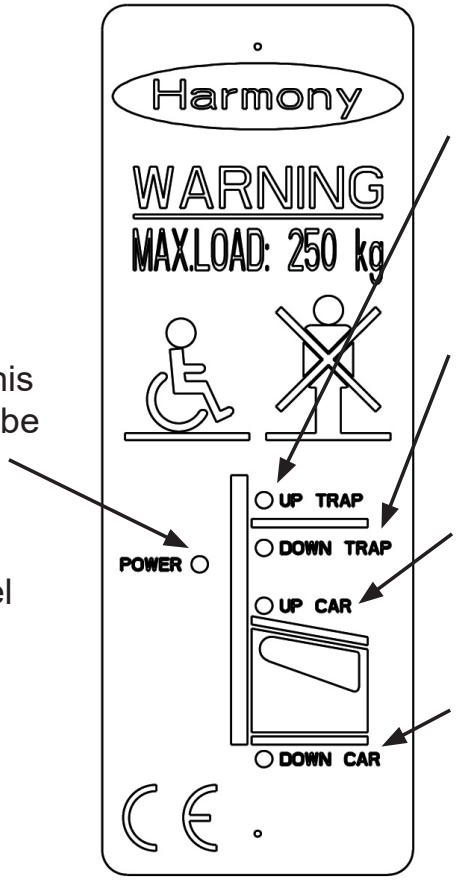
The door should now operate normally, otherwise repeat the above process.

FAULT FINDING

The most likely causes of your lift failing to operate are:

- No mains power supply
- The door not being fully closed.
- Something obstructing the travel of the car or in fill panel causing one or more of the sensors or safe edges (see Fig.1) to operate and therefore preventing travel in the appropriate direction.

To assist in identifying the cause the car if fitted with a simple system of coloured indicator lights on the rear panel, one red, two yellow and two green (see Fig.5).



Battery warning (red) This is normally off, but may be on during operation. This is OK providing it extinguishes eventually when lift is at either level

UP TRAP (green light) Means safe edge infill panel OK. Will be off when descending.

DOWN TRAP (yellow light). Means safe edge in fill panel OK. Will be off when ascending.

UP CAR (green light) Means safe edge car OK. Will be off when descending.

DOWN CAR (yellow light). Means safe edge car OK. Will be off when ascending and when at lower level.

Fig. 5

Lift Malfunction

Fault	Indication	Cause	Remedy
No lift function at all.	No red LED on powerpack cover.	No mains power to the lift.	Check mains is on and reset RCD/Spur if required.
Lift will not travel in either direction.	No lights on car panel.	Door not shut or remote fob off.	Press door button Press button on fob.
		Flat batteries in smoke alarms.	Replace smoke alarm batteries.
Lift will not go up.	One green off on car panel.	Car safe edge obstruction.	Remove obstruction or free safe edge.
	Both greens off on car panel.	Infill panel obstructed on upper surface.	Remove obstruction from upper surface.
Lift will not go down.	One yellow off on car panel.	Car underpan obstruction.	Remove obstruction from beneath surface.
	Both yellow off on car panel.	Infill panel obstructed on lower surface.	Remove obstruction from lower surface.
Powered door will not close fully.	Can be moved easily by hand.	Door has disengaged from drive mechanism.	See pg 13 & 14 Person B emergency unlocking.

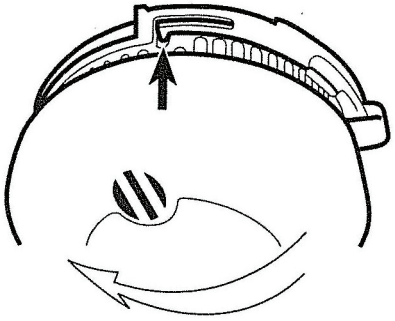
Smoke Alarm Malfunction

Indication	Cause	Remedy
Alarm beeps twice every 45 seconds.	Unit Malfunction.	Call an engineer.
Alarm does not sound upon pressing test button.	Unit Malfunction.	Call an engineer.
The operating light remains steadily on or off (ie. Does not flash approximately once every 45 seconds when unit not in alarm).	Unit Malfunction.	Call an engineer.

Low Battery Warning

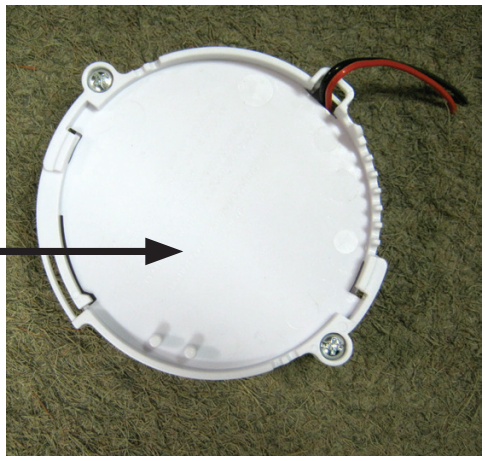
Indication	Cause	Remedy
Single short beep on lift car every 2 minutes.	Low Handset battery.	Replace CR2450 batteries in handset.
Double short beep on lift car every 2 minutes.	Low smoke alarm battery.	Replace AA batteries in smoke alarm.
Double long beep on lift car every 2 minutes.	Smoke alarm battery dangerously low.	Replace AA batteries in smoke alarm.
Lift will not travel in either direction.	Smoke alarm batteries flat.	Replace AA batteries in smoke alarm.

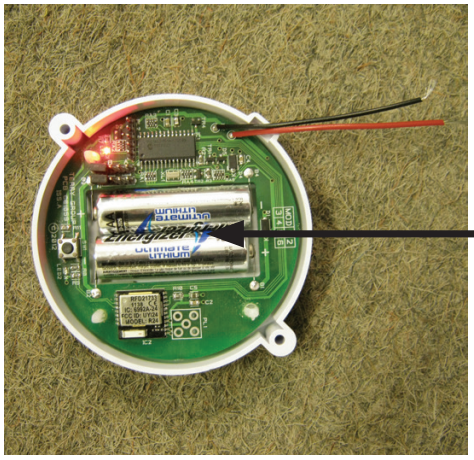
CHANGING SMOKE ALARM BATTERIES



1. To change the batteries push upwards on this part of the alarm base with any small tool, then turn alarm clockwise.

2. Unscrew the alarm base plate from the box





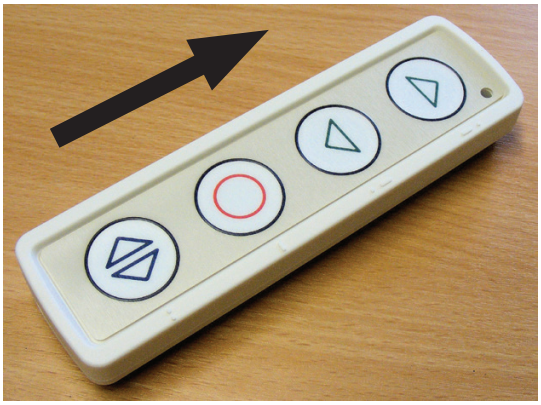
3. Fit the two AA style Lithium batteries into the board battery holder as shown.

CHANGING CALL STATION BATTERIES

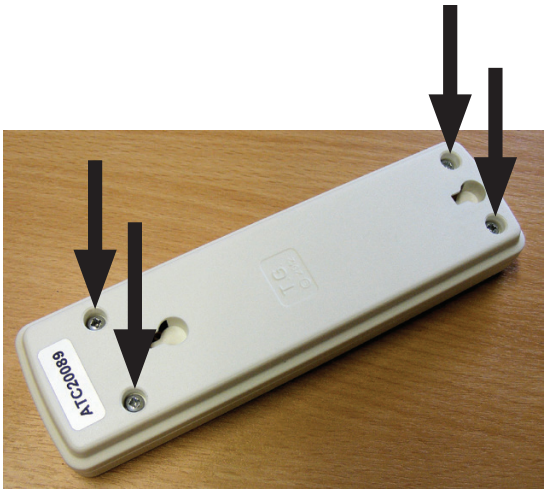
CR2450 (550 mAh minimum) are approved for use with these devices.

CRITICAL:

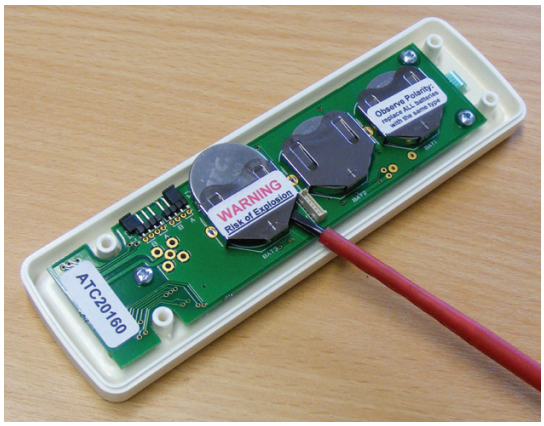
- It is critical that all three batteries are replaced with new ones of the same type, manufacture and age, that they are fitted at the same time and that they are correctly oriented.



1. The call station can be removed from the wall by sliding the case upwards.



2. Remove the four screws in the back with a posi-drive screwdriver.



3. Using a screw driver, gently push the battery out a short way and then pull using fingers.

SAFETY FEATURE CHECKS

AS A PRECAUTIONARY MEASURE WE ADVISE PERIODIC (WEEKLY) CHECKS OF THE SAFETY FEATURES BUILT INTO YOUR HARMONY INTER FLOOR LIFT AS FOLLOWS:-

(see Fig.1)

1 CARRIAGE SIDES AND DOOR UPPER SAFE EDGE

With the lift at lower level, press the UP button on the wall station, when lift starts to ascend press downwards on carriage side upper surface, the lift should stop.

Lower the lift to floor level and repeat operation with other carriage side and door.

2. CARRIAGE UNDERFLOOR SAFETY UNDERPAN

With the lift at approximately eye level press the DOWN button on wall station, when lift starts to descend press upwards on the carriage underpan, the lift should stop.

Raise lift and if possible, repeat operation on opposite side of lift.

THESE CHECKS SHOULD BE CARRIED OUT WITH THE LIFT UNOCCUPIED

If any of the above checks fail, the lift MUST NOT be used and advice sought from Terry Group Ltd.

Servicing & Maintenance

This lift should be serviced at least every 12 months. This service should be conducted by competent persons trained in servicing and repair of the product.

Lift Disassembly/Safe Disposal of Hazardous Materials

This lift must be disassembled by a competent person who has been fully trained in the installation of this lift and is qualified to provide safe disconnection of the lift to the mains terminal.

Batteries & Printed Circuit Boards (PCB)

The batteries and PCB's within this product should not be disposed of with other household waste at the end of their working life. Where batteries are marked with the chemical symbols Hg, Cd or Pb, it indicates that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

Batteries and PCB's that are no longer required for this lift, at the end of their working life, can be returned either to an approved waste disposal facility or to Terry Group Ltd for safe disposal.

Oil

Oil from this lift should be disposed of via an authorised waste disposal contractor or to an approved waste disposal facility.

SERVICE HISTORY RECORD

An entry should be added to the following table every time the lift is serviced.

Date	Engineer	Company	Comments

DECLARATION OF CONFORMITY

Lift Type: Harmony Lift

This lift was manufactured by TERRY GROUP Ltd., who declare that this lift fulfils all the relevant provisions of the following Directives:

2004/108/EEC	Electromagnetic Compatibility Directive
2006/42/EC	Machinery Directive

This lift also fulfils all the relevant provisions of the following Standards:

BSEN 12015:2014	Electromagnetic compatibility. Product family standard for lifts, escalators and moving walks. Emission.
BSEN 12016:2013	Electromagnetic compatibility. Product family standard for lifts, escalators and moving walks. Immunity.
BS5900:2012	Powered homelifts with partially enclosed carriers and no liftway enclosures – Specification

Person authorised to compile Technical File:
Greg Gnyp, Terry Group Ltd., Longridge Trading Est, Knutsford, Cheshire, WA16 8PR.

EC examination carried out by: Bureau Veritas UK Ltd., Parklands, Wilmslow Road, Didsbury, Manchester, M20 2RE.
Notified Body Reference Number:0041
EC examination certificate number: CE-0041-MD-TER001-10-GBR

This declaration was completed at Terry Group Ltd., Longridge Trading Estate, Knutsford, Cheshire, WA16 8PR, in August 2014.

This compliance is only valid if the installation test Certificate has been completed and signed by a competent lift engineer trained to install this product to the latest installation instructions.

TERRY GROUP Ltd.

P.Morrey (Managing Director)

LIFT SPECIFICATION

Address of manufacturer:-
Terry Group Ltd.,
Unit 1 Longridge Trading Estate,
Knutsford,
Cheshire,
England,
WA16 8PR.

Lift serial No:	Year of manufacture:
Safe working load:	Harmony S & W = 280kg Harmony L & LW = 250kg
Maximum travel:	3.6 metres
Duty cycle:	10 cycles per hr with max load
Average noise level:	65 dB
Power supply:	Dedicated 240V ~ 50/60 Hz single phase supply
Control voltage:	12V DC
Hydraulic pump power consumption:	1200W maximum
Hydraulic oil grade:	T22
Hydraulic pump enclosure:	IP54
Designed and manufactured to:	BS5900:2012
Fire specification:	Half hour fire integrity through aperture, Exova Warrington Fire Research assessment No. 320925

For technical help,
sales or service enquiry telephone:

This Harmony Lift has been manufactured by:

Terry
total lift solutions

Terry Group Ltd.
Longridge Trading Estate,
Knutsford, Cheshire, WA16 8PR.

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e: sales@terrylifts.co.uk
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Certificate Number 13858
ISO 9001, ISO 14001,
OHSAS 18001

Made in England

Ref: ED00052J