Stannah

Stratum FE Homelift User Manual

ENG Original instructions

CONTENTS

DESCRIPTION

The Stratum FE Homelift is designed for use by persons with impaired mobility travelling between fixed floor levels in private dwellings.

The lift is capable of transporting two people, one of whom could be a wheelchair user (excludes Stratum FE C). This lift is not intended for the 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 at the lower level.

A telephone is supplied in the car for emergency communication.

A half hour fire rating is provided as standard while the lift is at the upper or lower level.

The lift car panels are made from powder coated steel which can easily be cleaned using normal household cleaners. Internal upholstery can also 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.
- Never allow children to play in, under or around the lift.
- 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 (page 6).
- Always keep your emergency door release key and key fob 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. The infill panel is fitted with sensors that automatically stop the lift if the infill panel is obstructed (page 6).
- Do not use this lift for anything other than transporting people.
- 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 before moving the lift.
- Safety related components should only be adjusted and reset by a competent person.
- Proceed with caution when exiting the carriage backwards.

Lift safety sensors

The diagram below (Figure 1) shows the safety edges and surfaces on your lift.

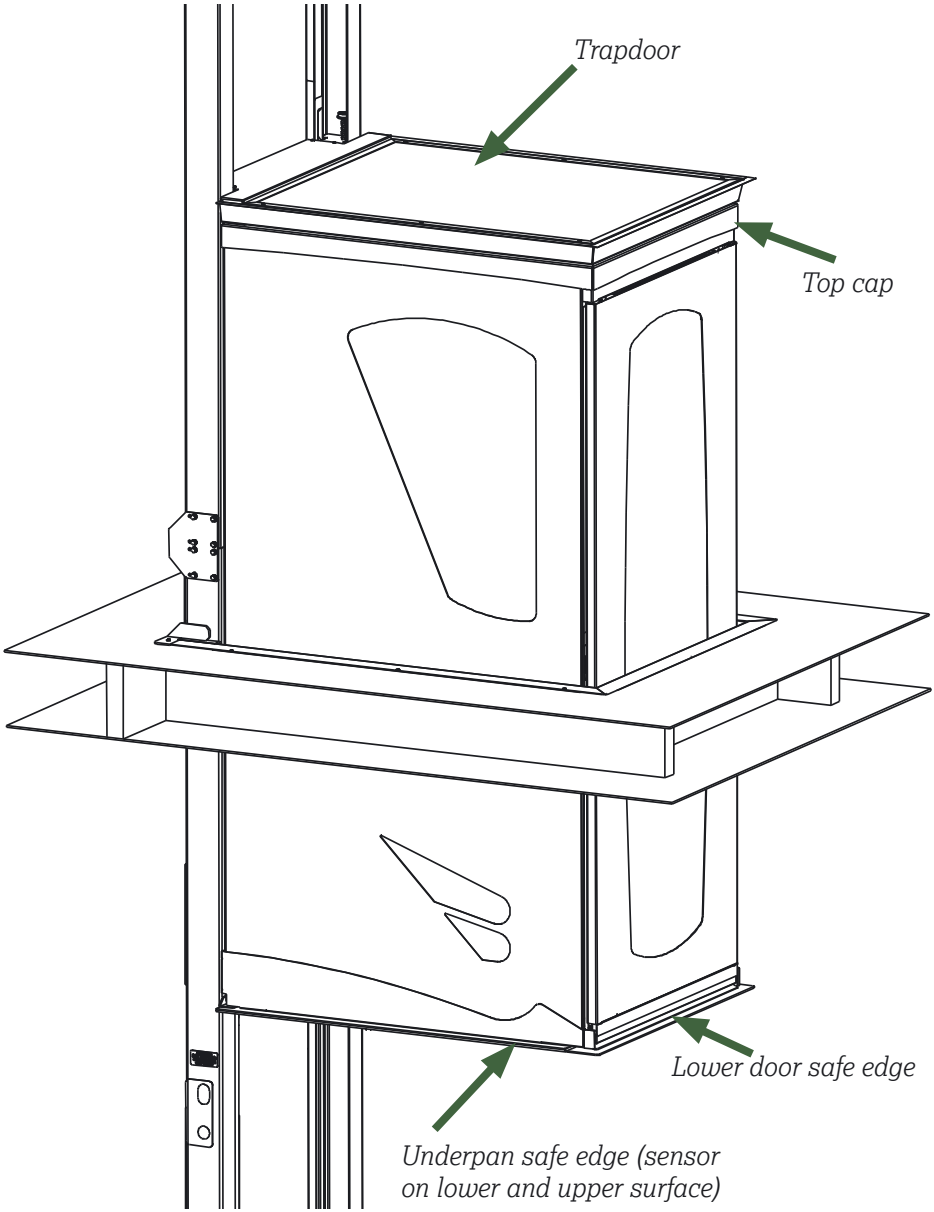


Figure 1. *lift shown part-way through aperture*

CONTROLS AND OPERATION

To operate the lift you can use the two wall mounted call stations (Figure 2), one at each level and similar control station fitted in the lift car. To isolate the lift you can use the optional remote control fob (Figure 3) to prevent travel. The lights in the car will switch on automatically when you press any call or control button and will automatically turn off after a few minutes.

If you stop the lift it cannot be restarted for 3 seconds.

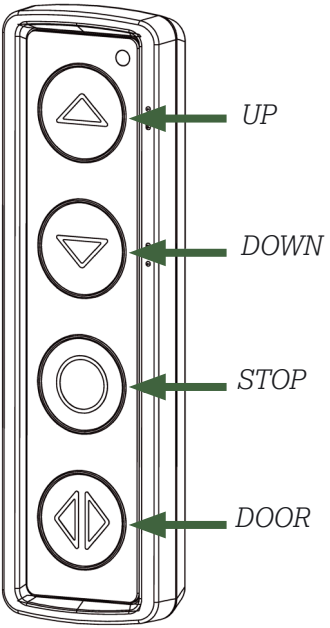


Figure 2. *Wall mounted call station*

Figure 3. *Optional remote isolate fob*

Wheelchair users should apply their brakes before starting the lift.

General operation

- Call the lift by pressing the up arrow if you are at the upper level or down arrow if you are at the lower level
- Press the door button to open the door.
- Enter the lift. Users with wheelchairs should apply the brakes.
- Press the door button to close the door. Press the button for the direction that you wish to travel and the lift will travel uninterrupted to the next floor.
- At any point during travel the stop button can be used to stop the lift.
- When at either level, the door button can be used to open and close the door. If the door is moving, pressing this button will stop the door and make it move in the opposite direction.
- When the lift is not being used, send it to the lower level whenever possible.

Light Control

The brightness of the lights that illuminate the car and the time for which they stay on can be altered using the call station.

To change the brightness, press and hold the stop button. Press the up button and the lights will get brighter. Press down and the lights will get dimmer.

To change the light timer, press and hold the stop and door buttons. You should hear two short beeps. Press the up button to increase the time and the down button to decrease the time. When up or down is pressed, a series of beeps will sound, where each beep represents 2 minutes of light-on time. The minimum is 4 minutes or 2 beeps.

SMOKE ALARMS

When installed on a Stratum FE Homelift, 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 two minutes after the smoke alarms no longer detect smoke.

Silencing the Smoke Alarms

The alarms can be silenced by pressing the mute button on the sensor that initiated the alarm. The initiating sensor can be identified by a red light flashing every second.

When the alarms are deactivated, the lift will automatically reactivate when the period of two minutes has expired. If the source of the smoke alarm is not removed, the smoke alarms will beginn 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 Stratum FE Homelift 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 Battery Lowering

In the unlikely event that the lift stops responding normally to the control station, the lift can be lowered from inside the carriage. This allows the lift to move downwards while the underpan and lower door safety surfaces remain operational.

- **This emergency battery lowering procedure should never be used if the lift is at the upper level.**
- On the middle back panel, remove the small central cover to reveal the button control panel.

Figure 4.

- Press and hold the **E.LOWER** button. The lift will move in the downward direction.
- When at the bottom level, press the door button to open the door.
- If the door does not unlock, follow the Emergency Unlocking procedure in this manual.

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.

PLEASE NOTE:
If the lift is fully upstairs and a person is trapped inside, please see the section 'Emergency Unlocking'.

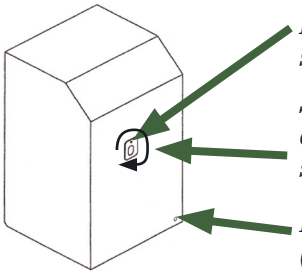
If the lift has stopped mid-level and the customer is unable to get the lift up or down then the only time it should be lowered by the emergency valve is if:

- There is a 2nd person around the lift area at the lower level to ensure that nothing goes under the lift during the lowering by the first person
- OR the person lowering the lift has sight of the area under the lift.

Person A

- Ensure the door is closed. Turn the mains supply to the lift off.
- Locate the hydraulic power unit, normally outside the property (Figure 5).
- Remove the screw using the screwdriver provided at installation.
- Swivel the small metal cover plate on the front face of the housing to reveal an access hole (Figure 5).

- The red cord revealed in the access hole now needs to be pulled continuously to lower the lift car slowly.
- After 5 seconds release cord and check with person B that the trapdoor is following the carriage. If so continue to lower.
- Once the lift is at the lower level turn the mains supply back on.



Remove the screw using the screwdriver provided at installation.

Swivel this metal plate to one side in order to gain access to the lowering string behind the plate.

Indicates mains power to lift (usually 'on' red).

Figure 5.

Person B

- Remain in the house by the lift and communicate 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.
- Confirm that the aperture infill panel 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 lift at upper or lower landing level from outside the lift.

Ensure the lift is at a landing level.

- If it is not, ask the occupant to lower the lift. It is possible to emergency lower the lift from inside the car - see Emergency Battery Lowering section.
- If this is not possible, for emergency lowering from outside the car, refer to Emergency Manual Lowering section.

When the lift is at a landing level:

- Find the red emergency unlocking key which came with this user manual (Figure 6).

Figure 6.

- Insert the key just below the lock bar and move it upwards.

Figure 7.

- Pull open the door. The door drive mechanism has been designed to allow the door to be pulled open by hand.

FAULT FINDING

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

- The door not being fully closed.
- An obstruction causing one or more of the safe edges (page 6) to operate, preventing travel.

To assist in identifying the cause, the car is fitted with a simple system of coloured indicator lights on the rear panel, one red, two yellow and two green (Figure 8).

See 'Lift Malfunction' table on page 15 for explanation when light(s) are out.

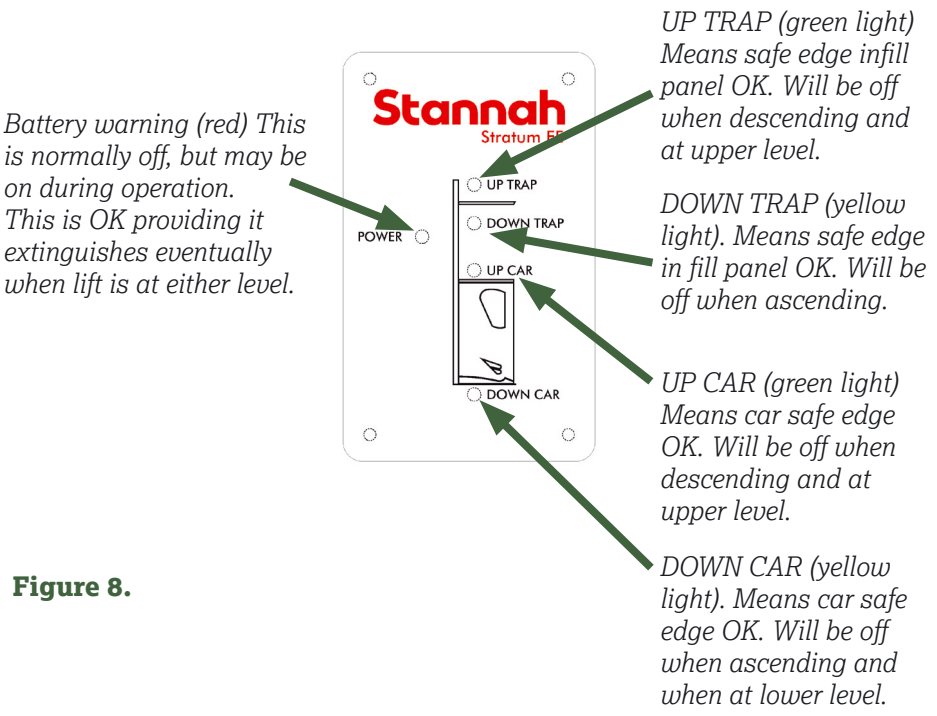


Figure 8.

Lift Malfunction

FAULT	INDICATION	CAUSE	ACTION
Lift will not travel in either direction.	No lights on car panel.	Door not shut	Press door button
		Remote fob off	Press a button on fob.
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.
		Lower door safe edge obstruction	
	Both yellow off on car panel.	Infill panel obstructed on lower surface.	Remove obstruction from lower surface.

Handset Malfunction

INDICATION	CAUSE	ACTION
Single short beep on lift car every 2 minutes.	Battery low.	Replace CR2450 batteries.

Smoke Alarm Malfunction

INDICATION	CAUSE	ACTION
Smoke alarm, red light flashes one every minute.	System functioning correctly. (Quiescent mode)	No action necessary.
Smoke alarm sounds 3 beeps every 4 seconds with flashing red light repeating.	Smoke alarm has been activated.	Your homelift is interlinked to this alarm signal and will terminate at next landing level if in use. If parked will not operate until two minutes after alarm signal has stopped.
Smoke alarm beeps once every minute.	Battery low.	Call engineer. Do not ignore the low battery alarm. If you have called engineer and the beep is a nuisance, press test button to silence the low battery alarm for 10 hours.
Smoke alarm beeps twice every minute	Unit Malfunction.	Call engineer.
Smoke alarm will not sound when test button pressed.	Unit Malfunction.	Call engineer.
Smoke alarm test button light either constantly illuminated or constantly off.	Unit Malfunction.	Call engineer.
Smoke alarm beeps once every 11 seconds.	Test button stuck.	Call engineer.

CHANGING CALL STATION BATTERIES

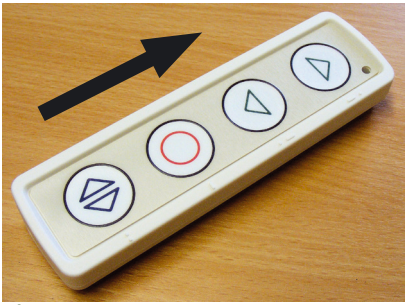


Figure 9.

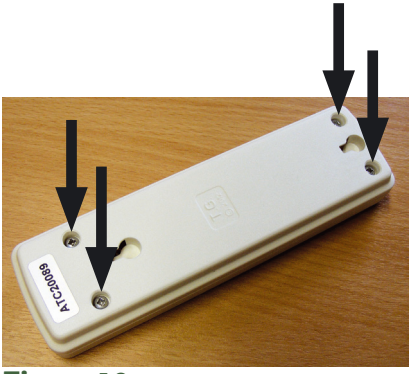


Figure 10.

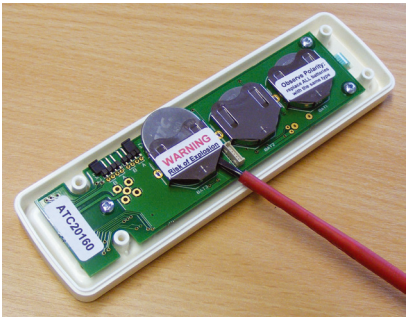


Figure 11.

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.

   NOTE: 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.

4. Refit back cover and re-attach to wall.

   NOTE: If recessed controls are fitted, remove module by undoing two wall fixing screws then follow instructions above. Care must be taken not to damage protruding aerial during this process.

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 Stannah 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

CE

Lift Type: Stratum FE Homelift

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

2014/30/EU	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

This Declaration of Conformity covers all lifts with serial numbers starting with L, H and R.

Person authorised to compile Technical File: Peter Morrey, 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-TER004-18-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:	325kg
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:	750W maximum
Hydraulic oil grade:	T22
Hydraulic pump enclosure:	IP54
Test specification:	Manufactured and tested to BS5900:2012
Fire specification:	Load-bearing capacity 30 minutes, integrity and insulation 15 minutes. Assessed by Warrington Fire Research Centre.

For technical help,
sales or service enquiry telephone:

Stannah

Stannah Homelifts
Watt Close, East Portway,
Andover, Hampshire, SP10 3SD

t: 0800 715 482
e: webenquires@stannah.co.uk
www.stannahhomelifts.co.uk

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