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STANNAH LIFTS LTD

TECHNICAL BULLETIN

For the Attention of : Service Branch / Installation Engineers and Helpdesk Technical Support department.

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Product : Midlift SL

Subject : New Multi-Floor Midlift SL product

Status : Product Update Information only

Pages : 2

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Details

A new control system has been developed for the Midilift SL to increase the maximum number of stops from 2 to 4 floors.

The new Multi-Floor SL control system has been trialled on 3 sites to date. It is our intention to formally introduce the new system in August 2008.

Once released, all 3 - 4 floor contracts will utilise the new Multi-Floor SL control system – all 2 floor contracts will continue to operate via the current Midilift SL controller.

Bottom Floor Reset

The Multi-Floor SL lift, as far as the user is concerned, will operate in the same way as the current Midilift SL. The only exception being that the Multi-Floor system has to carry out a reset to bottom floor every time the lift is switched on.

Although positioning data is provided by an incremental draw wire encoder (detailed in 'Features'), a bottom reset switch is also required to reset or 'zero' the position count every time the bottom floor is reached.

Depending on where the platform is positioned when the lift is switched on, the reset procedure will be as follows –

Platform Above Bottom Floor – The platform will home down to the bottom floor until the bottom reset switch is activated.

Platform At Bottom Floor – The platform will first drive up off the bottom reset switch. Once clear of the bottom reset the platform will then home back down to find the point of activation.

It should be noted that the platform will only reset if it is safe to do so (i.e. all landing doors are closed and there are no safety edge switches activated). However, **care should be taken when re-instating the power to the lift** – particularly if the carriage cover has been removed for inspection.

Features

Encoder Position System – An incremental draw wire encoder produces a series of pulses that the controller uses to update lift position data. Other than a bottom reset switch, no other position switches are required.

Learn Mode – Floor levels are recorded by the controller upon successful completion of the 'Learn Routine' (detailed within the Multi-Floor wiring manual). Learn Mode can be activated at any stage via the 'Learn Mode Interface' on the Multi-Floor controller. This feature will allow for the adjustment of floor levels without the need to reposition any switches.

External Serial Control Unit (ESCU) – The ESCU PCB, which mounts next to the trailer PCB within the guide recess, is used to control all landing station peripherals (i.e. automatic doors, gongs, call accept illumination and DDU's). Unlike the current system, the Multi-Floor SL requires only one PCB to control multiple automatic door units.

Serial Communication – Has allowed for the incorporation of the Stannah System 21 DDU on the Multi-Floor SL. In addition, the serial connection is used to transmit data to the ESCU PCB ensuring that the number of trailer connections is kept to a minimum.

Fault Detection – It is possible for the new Multi-Floor controller to detect certain fault conditions and display the appropriate fault code through the landing and car DDU's.

Summary

The new Multi-Floor SL control system will be available for manufacture in August 2008 and will increase the maximum number of stops from 2 to 4 floors. The current Midilift SL control system will continue to be used on all 2 floor contracts.

Many new features have been added to the Multi-Floor lift as a result of the new control system – they include Encoder Position System, Serial Communication, Stannah System21 DDU's and improved fault detection and fault code display.

Instructions on the most significant features of the new control system are contained within the new Multi-Floor SL wiring manual (i.e. List of fault codes, Learn Mode procedure, Installation procedure etc).

However, these instructions are for guidance only and formal training should be undertaken as soon as possible.