



# EA LIFT

Manual for safe installation and  
operation

**PASSENGER LIFT SOLUTIONS**

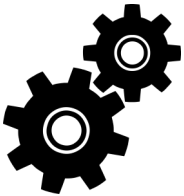
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## Cleaning

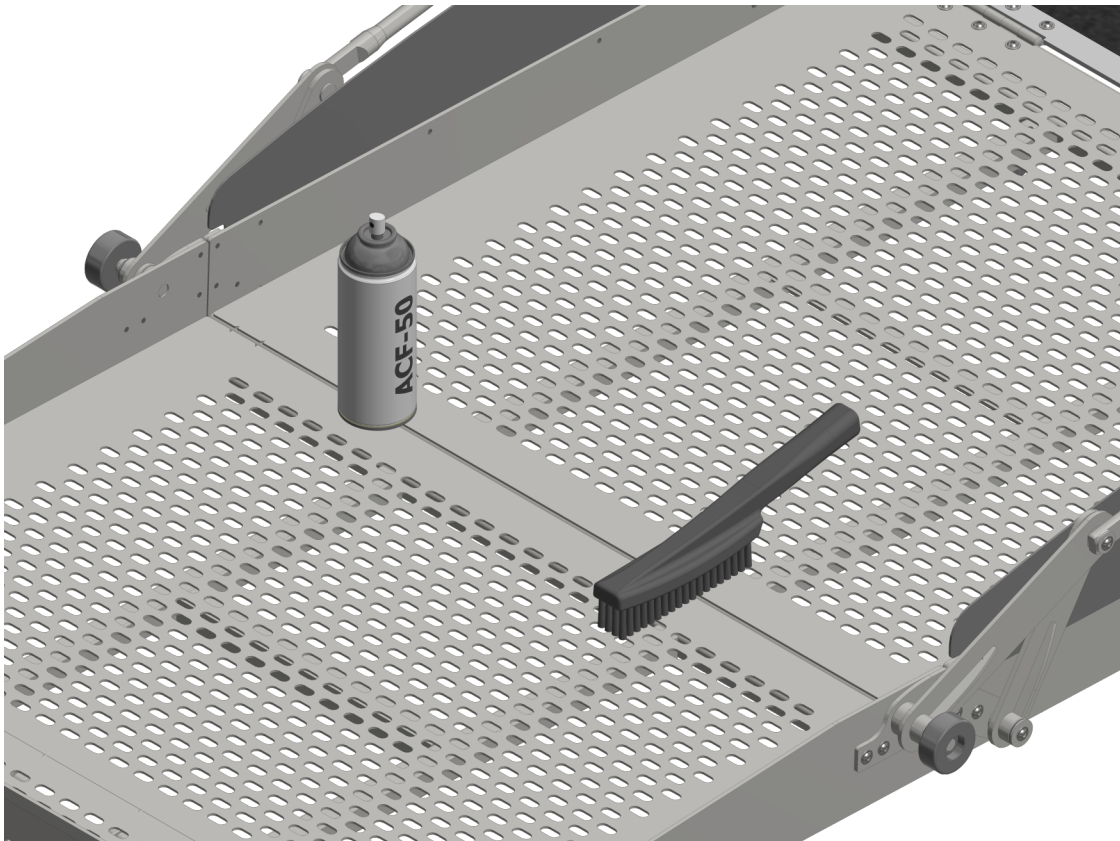


Care needs to be taken during the cleaning process, all cleaning should be carried out by hand using a gentle cloth or sponge soaked in non-aggressive detergent then rinsed with a cloth dampened with water. Ensure all moving parts are re-lubricated as per the lubrication section



DO NOT USE AGGRESSIVE CLEANERS

DO NOT USE PRESSURE WASHERS OR HOT WATER  
JET CLEANERS



After cleaning, relubricate as per the lubrication section

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## Troubleshooting

| Symptom   | Possible Cause                             | Solution  |
|---|--|---|
| Lift will not deploy  | Circuit Breaker Tripped / Fuse Blown       | Re-set circuit breaker (push button in) situated on vehicle or change fuse  |
|   | Handset Button Failure                     | Check wiring in Handset, replace if needed  |
|   | Lift Arm Spring Failure                    | Replace damaged or stretched springs  |
|   | Arm linkage seized in                      | STAND CLEAR OF PLATFORM. Press Down Button while pulling lift out   |
| Platform unfolds when not in use                                      | Hose Burst / Hydraulic Leak                | Check for leaking oil, replace all necessary components, close tap & re-stow lift   |
|   | Manual override / down valve tap left open | Close relevant taps / valves & restow lift  |
| Lift fails to power UP  | Circuit Breaker Tripped                    | Re-set circuit breaker (push button in) situated near vehicle battery   |
|   | Handset button failure                     | Replace handset module  |
|   | Hose Burst / Hydraulic Leak                | Check for leaking oil, replace all necessary components, close tap & re-stow lift   |
|   | Low oil level in reservoir–air in system   | Top up reservoir with PLS blue hydraulic oil 25mm from top 'MAX' when lift stowed   |
| Roll-off ramp not reaching floor<br>NOTE: Keep fingers on down button | Lack of lubrication                        | Spray all pivots ad moving parts with ACF-50  |
|   | Ramp damaged / bent                        | Replace damaged parts   |
|   | Uneven Ground                              | Land the lift on more suitable surface  |
|   | Platform angle not set                     | Adjust stowage adjustment screws at base of platform to set level position  |
| Bridge plate not dropping to transfer plate                           | Lift not raised to max UP position         | Power lift UP fully to floor height   |
|   |  | Re-set and test bridge plate mechanism  |
|   |  | Replace all damaged components<br>Adjust stowage adjustment screws at base of platform to set level position<br>See also EA4 vertical split procedure |
|   | Activation spring no tension               | Replace as necessary  |
|   | Bridge plate hinge has jammed              | Loosen / Relubricate / Replace if necessary   |

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## Troubleshooting

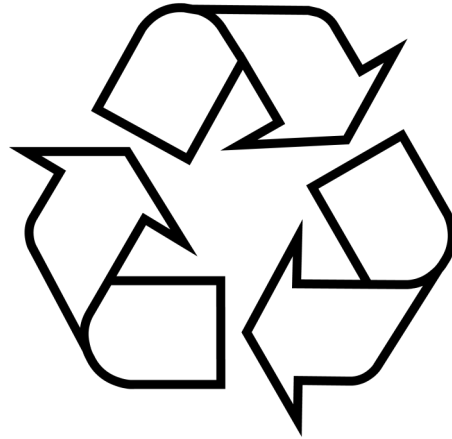
| Symptom   | Possible Cause                          | Solution  |
|---|---|---|
| Bridge plate not returning to vertical position     | Mechanism has is stuck in down position | Reset, lubricate and test bridge plate mechanism  |
|   | Gas strut has lost pressure             | Replace parts as necessary  |
| Platform Doors do not align<br>(EA4 vertical split) | Platform structure bent                 | Replace damaged components  |
|   | Platform knuckles not set correctly     | Adjust the platform knuckles at the platform pivot.<br>NOTE: When the platform is down, the platform knuckles must NOT be over-tensioned i.e. can be turned by finger pressure.<br><br>See Platform Frame 'Horizontal adjustment procedure' in Section XXX<br><br>See Platform Gates 'Synchronising procedure' in Section XXX |

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## End of life–Safe Disposal



At the end of life, the machine must be disassembled, identical materials grouped together and disposed of in accordance with local environmental legislation

Contact the local authority to ensure that specific materials such as lubricants and electrical / electronic components are disposed of correctly

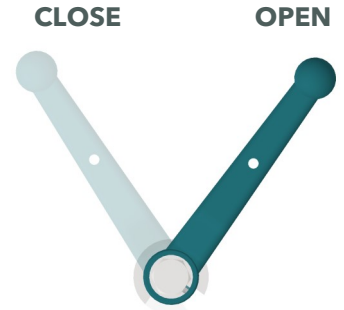
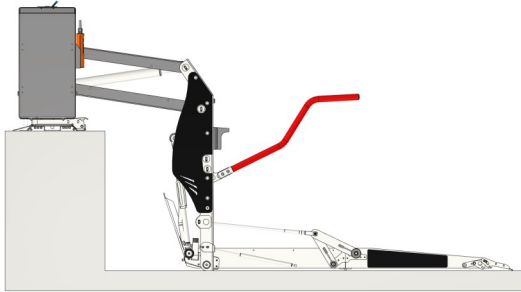
Inform PLS of disposal and return any ID plates if requested

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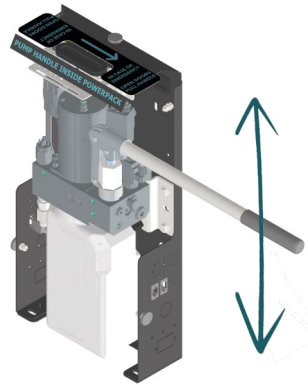
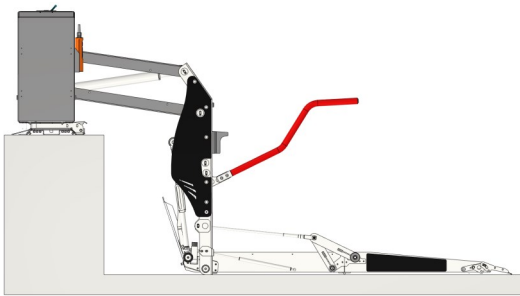
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## Pump Bleeding

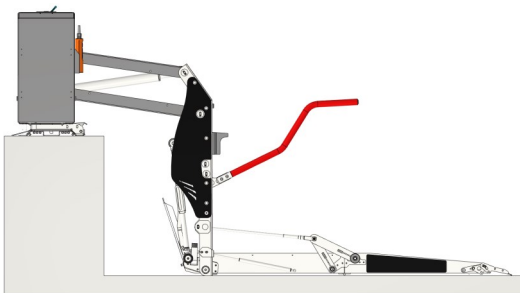


OPEN VEHICLE DOORS, ENSURE AREA IS CLEAR, **SLOWLY** OPEN VALVE AND LOWER LIFT TO GROUND LEVEL



**PUMP MINIMUM  
15 TIMES**

ONCE AT FLOOR LEVEL, REMOVE PUMP COVER **KEEP LIFT AT GROUND LEVEL DURING PROCEDURE**



**CLOSE VALVE  
REMOVE AND  
STOW HANDLE**

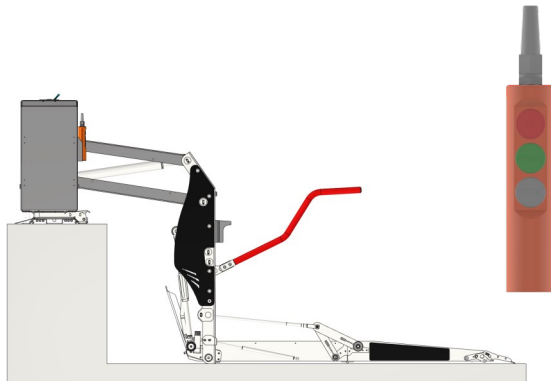
**KEEP LIFT AT GROUND LEVEL DURING PROCEDURE**

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## Oil Level Check

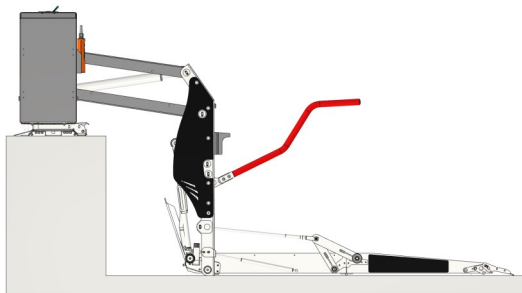


**CLOSE**

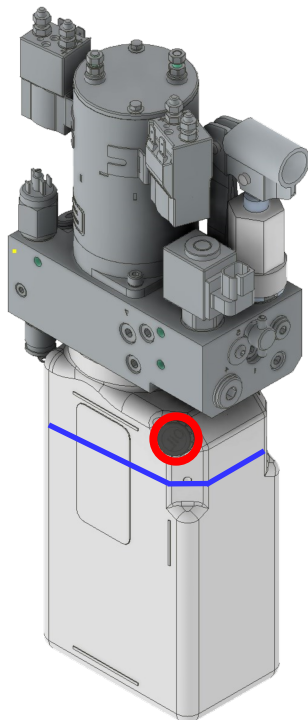
**CLOSE VALVE  
USE HANDSET TO  
LOWER LIFT**



OPEN VEHICLE DOORS, ENSURE AREA IS CLEAR, LOWER LIFT TO GROUND LEVEL OIL LEVEL CHECK MUST BE DONE AT GROUND LEVEL OTHERWISE PUMP WILL BE DAMAGED, ENSURE OVERRIDE VALE IS FULLY CLOSED



ONCE AT FLOOR LEVEL, REMOVE PUMP COVER  
**KEEP LIFT AT GROUND LEVEL DURING PROCEDURE**



REMOVE OIL FILLER CAP, IF DIP STICK IS FITTED ,WIPE WITH CLEAN CLOTH, REPLACE CAP, THEN TAKE OUT . CHECK LEVEL IS BETWEEN MIN AND MAX LEVEL.

IF NO DIPSTICK MAKE SURE OIL LEVEL IS 25MM BELOW OF OIL CAP HOLE.

IF EITHER IS BELOW LEVELS THEN TOP UP WITH PLS BLUE HY-DRAULIC OIL.

IF OVER-FILLED THEN OIL MUST BE TAKEN OUT BY LOOSENING A UNION TO DRAIN SLIGHTLY. KEEP CHECKING LEVELS. (A SY-RINGE MAY ALSO BE USED TO REMOVE THROUGH THE OIL CAP ORIFICE.

ONCE COMPLETED, REPLACE THE PUMP COVER

**KEEP LIFT AT GROUND LEVEL DURING PROCEDURE**

**PASSENGER LIFT SOLUTIONS**



## Daily Inspections

Lift Inspection checks are required DAILY by the lift operating company.

The working life of your lift will be greatly prolonged if these steps are adhered to.

This should include the following:

|                                    |   |              |
|------------------------------------|---|--------------|
| <b>Daily Inspection Check List</b> |   | Lift No.     |
|                                    |   | Vehicle Reg: |
|                                    |   | Date:        |
| Engineer's Name:                   |   |              |
| Customer Details:                  |   |              |
| Address, Contact:                  |   |              |
| Telephone Number:                  |   | <b>OK ?</b>  |
| 1                                  | Visually check for any leaks or damage  | YES / NO     |
| 2                                  | Check for obvious signs of damage, and notify manager if necessary            | YES / NO     |
| 3                                  | Are Operation instruction labels visible?                                     | YES / NO     |
| 4                                  | Ensure hand pump handle is present  | YES / NO     |
| 5                                  | Ensure Handset control is working correctly and no signs of damage            | YES / NO     |
| 6                                  | Ensure Platform is clean and dry  | YES / NO     |
| 7                                  | Ensure the Handrails are clean, working correctly and rust free and undamaged | YES / NO     |
| 8                                  | Ensure the Arm guards are present and undamaged                               | YES / NO     |
| 9                                  | Ensure correct operation of Bridge Plate and lands on the transfer plate      | YES / NO     |
| 10                                 | Check correct operation of Roll-Off Ramp and lands on the ground              | YES / NO     |
| 11                                 | Check warning lights are operating correctly (if fitted)                      | YES / NO     |

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## Monthly Inspections

Lift Inspection checks are required Monthly by the lift operating company.  
The working life of your lift will be greatly prolonged if these steps are adhered to.

|                                      |   |              |
|--------------------------------------|---|--------------|
| <b>Monthly Inspection Check List</b> |   | Lift No.     |
|                                      |   | Vehicle Reg: |
|                                      |   | Date:        |
| Engineer's Name:                     |   |              |
| Customer Details:                    |   |              |
| Address, Contact:                    |   |              |
| Telephone Number:                    |   | <b>OK ?</b>  |
| 1                                    | Check for obvious signs of damage and replace defective parts where necessary   | Y / N        |
| 2                                    | Check the operation and stowing of the lift   | Y / N        |
| 3                                    | Ensure Roll-Off Ramp(s) are working correctly, lubricate hinges with ACF-50 spray as necessary  | Y / N        |
| 4                                    | Check platform alignment (pin location), adjust Platform Knuckles as necessary  | Y / N        |
| 5                                    | Ensure Handset control is working correctly and shows no signs of damage  | Y / N        |
| 6                                    | Check lift 'vertical' stowing position. Lift should be clear of rear doors and only lower when the down button is depressed                           | Y / N        |
| 7                                    | Check Platform 'horizontal' position. Each side of the lift platform can be adjusted independently if required  | Y / N        |
| 8                                    | Check Power Pack oil reservoir (when the lift is fully stowed). If necessary, top up slowly with PLS Blue oil to <u>ONLY</u> within 25mm of MAX level | Y / N        |
| 9                                    | When cleaning the vehicle, wash the working platform of the lift. See cleaning section for more details. Replace missing or damaged grip tape         | Y / N        |
| 10                                   | Lubricate all required parts  | Y / N        |
| 11                                   | Check the condition / correct operation of the Platform Knuckles  | Y / N        |
| 12                                   | Ensure Bridge Plate and linkages are working correctly  | Y / N        |

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## Six Monthly Inspections

For Factory Trained Lift Engineers, As Monthly checks plus:

|  |   |              |
|--|---|--------------|
| <b>Six Monthly Inspection Check List</b> |   | Lift No.     |
|  |   | Vehicle Reg: |
|  |   | Date:        |
| Engineer's Name:                         |   |              |
| Customer Details:                        |   |              |
| Address, Contact:                        |   |              |
| Telephone Number:                        |   | <b>OK ?</b>  |
| 1  | Check all fixing bolts and brackets connecting lift to vehicle chassis  | Y / N        |
| 2  | Remove pump box cover and check hydraulics / electrics for wear or damage   | Y / N        |
| 3  | Check lifting cylinders for leaks, replace seals if necessary. Adjust tighten if required (Torque = 35Nm for hydraulic fittings)              | Y / N        |
| 4  | Remove arm side covers. Check operation of all gas struts. Check all linkages, rollers, and fittings for wear. Tighten / replace as necessary | Y / N        |
| 5  | Check all visible hoses and fittings for leaks or damage  | Y / N        |
| 6  | Ensure all handrail fasteners are tight   | Y / N        |
| 7  | Check condition / security of arm side guards   | Y / N        |
| 8  | Check all fittings are tight, particularly the arm pins   | Y / N        |
| 9  | Ensure Bridge Plate and platform hinges are working correctly   | Y / N        |
| 10                                       | Check Roll-off Ramp assemblies for correct operation, paying particular attention to spring position and operation                            | Y / N        |
| 11                                       | Check all platform rubber buffers for wear  | Y / N        |
| 12                                       | Check condition of SWL label and other lift decals  | Y / N        |
| 13                                       | Coat electrical connections with petroleum jelly or electrical grease   | Y / N        |
| 14                                       | Check hand pump operation, lubricate all pivot points. RETURN TO ORIGINAL POSITION  | Y / N        |
| 15                                       | Perform LOLER weight test   | Y / N        |
| 16                                       | Re-grease as per lubrication section  | Y / N        |

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## Weight Test Certificate

**Certificate Number:** \_\_\_\_\_

**Lift Serial Number:** \_\_\_\_\_

The following test conforms to the Lifting Operations and Lifting Equipment Regulations 1998 (LOLER 98), for Passenger Carrying Vehicle Tail Lifts

|   |                             |   |                         |
|---|-----------------------------|---|-------------------------|
| Operating Company (Lift Owners) Address:  |                             | Installation Company:   |                         |
|   |                             | <div style="border: 2px solid green; padding: 5px; display: inline-block;"> <b>Company Stamp</b><br/>           +00 1234 56789         </div> |                         |
|   |                             | Vehicle Registration:   | Lift Model:             |
|   |                             | Vehicle Manufacturer:   | Lift Safe Working Load: |
|   |                             | Vehicle Model:  | Lift Voltage:           |
|   |                             | Vehicle Body:   | Vehicle Floor Height:   |
| Max Working Pressure (BAR, with max SWL): | Relief Valve Setting (BAR): |   |                         |

| Tests Applied  |                          |          |                 |
|--|--------------------------|----------|-----------------|
| Safety Devices   | Ramp / Roll Stop         |          | P-Pass / F-Fail |
|  | Bridge Plate / Roll Stop |          | P-Pass / F-Fail |
|  | Flow Control Valves      |          | P-Pass / F-Fail |
| Raising and Lowering Controls  |                          |          | P-Pass / F-Fail |
| Overload Test - Load Applied - <i>Check lift and attachment points</i> |                          | Kg       | P-Pass / F-Fail |
| Safe Working Load Test   |                          | Kg       | P-Pass / F-Fail |
| Downward Creep in 10 mins  |                          | mm       | At max SWL      |
| Set Relief Valve   |                          |          | P-Pass / F-Fail |
| Operation times (s)  | Up (s)                   | Down (s) | At max SWL      |
| Ancillary Equipment  |                          |          | P-Pass / F-Fail |

|  |                       |
|--|-----------------------|
| Date of Last Examination:                                  | Next Examination Due: |
| <b>NOTE: Contact PLS for extra copies of this document</b> |                       |

| Weight Test Outcome |      |  |      |
|---------------------|------|--|------|
|                     | Pass |  | Fail |

I, the undersigned, confirm that the equipment and installation was tested and thoroughly examined to BS-EN-1756-2 (2004) and amendment 1 (2009).

|                   |   |  |
|-------------------|---|--|
| On _____          | And certificate number _____                          | <div style="border: 2px solid green; padding: 10px; display: inline-block;"> <b>Company Stamp</b><br/>           +00 1234 56789         </div> |
| Engineer ID _____ | was issued in confirmation of a completed examination |  |
| Signed _____      | Print _____   |  |

QF224/A. Send to PLS when finished (Unit 2, B66 1BT) White - PLS, Yellow - Vehicle, Blue - Customer

# PASSENGER LIFT SOLUTIONS

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# Weight Test Certificate

Certificate No. \_\_\_\_\_

Lift Serial No. \_\_\_\_\_

## Examination & Test Certificate for Vehicle Passenger Lifts

Operating Company: ..... **NOTE: Contact PLS for**  
 Installation Company: ..... **extra copies of this**  
 Base Vehicle Manufacturer: ..... **document**  
 Base Vehicle Model: .....  
 Body Type: .....  
 Vehicle Voltage: .....  
 Lift Model: .....  
 Lift Serial No: .....  
 Lift Maximum S.W.L. (Kgs uniformly distributed): .....  
 Vehicle Floor Height (mm): .....  
 Max. Working Pressure (with max. S.W.L. applied) (BAR): .....  
 Relief Valve Setting (BAR): .....

### Test Applied

- a Safety Devices Ramp/Roll Stop .....
- Bridge Plate/Roll Stop .....
- Flow Control Valve .....
- b Raising & Lowering Controls.....
- c Overload Test Load Applied (Kg).....  
(Check lift and mountings to vehicle).....
- d Safe Working Load Test (S.W.L. Applied Kg).....
- e Downward Creep in 10 Mins (mm) .....
- f Set Relief Valve.....
- g Operation time S.W.L. for floor height of (mm)  
Up.....s Down.....s
- h Check Ancillary Equipment .....

### Declaration

I Certify that on  the equipment/installation was tested and thoroughly examined by the undersigned to appendix A of BS 6109: Part 2: 1989. No defects were found and I certify that the foregoing is a correct report of the results.

Signed:  Date:

Name:  Position:

Business Address:

White - Customer copy

Blue - Vehicle copy

Yellow - Engineer /Fitter copy

## PASSENGER LIFT SOLUTIONS

Unit 2, Summit Crescent Ind. Est. West Midlands, B66 1BT, GB. +44 (0) 121 552 0660



**UK  
CA**

**CE / UKCA  
DECLARATION OF  
CONFORMITY**



**We: PASSENGER LIFT SOLUTIONS LTD  
UNIT 2, SUMMIT CRESCENT INDUSTRIAL ESTATE, SMETHWICK, WEST  
MIDLANDS, B66 1BT**

Declare that the following equipment:

Description: PASSENGER LIFT

Is in conformity with Community Legislation as Marketing Directive 89/392/EEC and CEN/TC 98/WG For Tail Lifts - Platform Lifts for Mounting on Surface Vehicles - Safety Requirements. Part 2 - Tail Lifts for Passengers. Machinery Directive 2006/42/EC

EN 61000-6-1:2007, EN 61000-6-3:2007 +A1:2011, EN 61000-6-4:2007 +A1:2011, EN 61000-6-2:2005, EN 1789:2007 +A2:2014, EN 1756-2:2004 +A1:2009

Following the provisions of the Council Directive 89/336/EEC, the Low Voltage Directive 73/23/EEC - Low Voltage Equipment and the Automotive EMC Directive e11 72/245/EEC 95/54 EEC.

Directives 2004/108 & 2004/104EC.

Directive 2001/85/CE from the European Parliament (section VII).

Name: A. BECK

Position: Managing Director, Passenger Lift Solutions Ltd

Date: December 2023

**PASSENGER LIFT SOLUTIONS**

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