



## PROJECTOR LIFT MODEL . SI-100

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### INSTALLATION MANUAL

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Thank you for purchasing the new Harkness Screens SI-100 Projector Lift.

The SI-100 is supplied with a set of components and accessories that make it suitable for installation for the majority of standard AV applications, but note must be made of the restrictions that apply to the weight capability of this unit and not exceeded.

**Before installing the projector lift, please read the following instructions carefully:**

- **The projector lift must be used INDOORS ONLY.**
- **Please confirm that your projected image width will fit your screen from your proposed mounting location prior to installation.**
- **Incorrect use of the lift, including exceeding the maximum lifting weight, would be dangerous. The manufacturer does not take responsibility for any damage to property or personal injury if the lift is used outside of recommended specifications.**

**This product uses a 230V AC Motor. DO NOT attempt to service the motor. Incorrect servicing could lead to risk of electric shock. For any repairing, please contact us directly or via the Harkness dealer you purchased the unit from.**

### SUPPLIED EQUIPMENT LIST :

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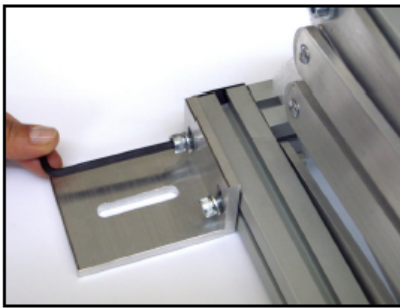
When you open the packaging, please CHECK that it contains ALL the components below :

- A) 1 MECHANIC PROJECTOR LIFT SUPPLIED WITH A PLASTIC CABLE CHANNEL AND MOTOR WITH A 3 METER CABLE WITH FOUR ELECTRIC WIRES ( UP, DOWN, NEUTRAL AND EARTH)
- B) 4 "L" FORM ALUMINIUM BRACKETS FOR CEILING MOUNTING
- C) ON/OFF SWITCH UNIT
- D) INSTRUCTIONS FOR ELECTRICAL CONNECTIONS BETWEEN MOTOR AND SWITCHER
- E) 4 THREADED BARS M6 L. 25 CM AND 2 MOUNTING PLATES FOR THE FALSE CEILING PLATE.
- F) 8 HEX HEAD SCREWS 6x16 MM.
- G) 16 NUTS M6 FOR MOUNTING THE THREADED BARS TO THE MOUNTING PLATES AND TO THE LIFT

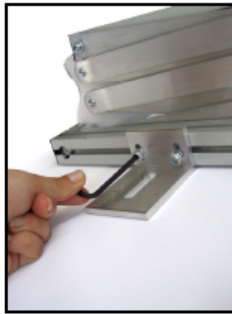
## INSTALLATION INSTRUCTIONS

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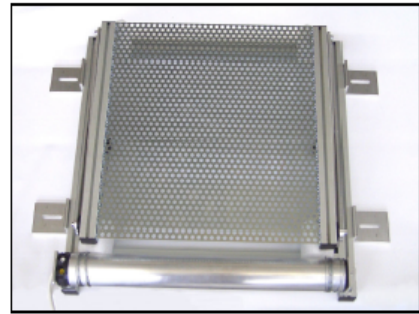
Use the HEX-headed screws listed as "F" in the equipment list, to mount the "L" brackets to the profile of the lift, as shown in PICTURES 1A, 1B and 1C below:



PICTURE 1A



PICTURE 1B



PICTURE 1C

Mount the lift to the ceiling using the suitable bolts/screws (NOT SUPPLIED) and verify that the projector lift is perfectly horizontal using a spirit level. Use shims to level the lift, if required, between the brackets and ceiling.

Installing the lift perfectly level is **IMPORTANT** and ensures silent movement of the lift without any shaking, jolting or friction that would compromise the alignment between projector and projection screen.

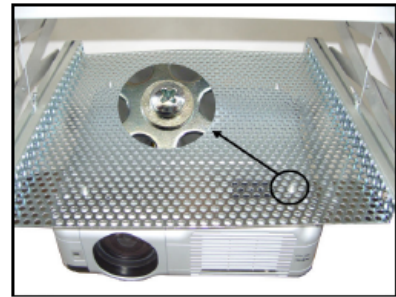
Once you have mounted the lift, position the projector either on or under the grill using the screws indicated in the instruction manual of your projector, as shown on PICTURES 2A, 2B and 2C.



PICTURE 2A



PICTURE 2B



PICTURE 2C

Connect the projector lift to the electricity supply as explained on the attached instructions for electrical connections (D).

The next step is to set the "CLOSED STOP POSITION" (CLOSED lift) and the "BOTTOM STOP POSITION" (OPEN lift).

If the projector lift has been positioned inside a false ceiling void, please be aware that to allow full closure the threaded bars that support the trim kit must be no longer than 25cm in length. (E) in the equipment list on page 1. The "BOTTOM STOP POINT" has to be regulated so that the image is correctly projected onto the screen.

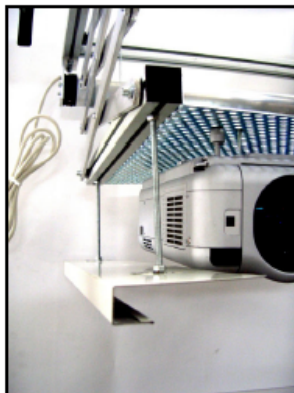
In order to fix the "CLOSED STOP POSITION" : turn the white screw on the motor anticlockwise to position the lift nearer to the ceiling. Turning clockwise increases the stop point Gap .

In order to fix the "BOTTOM STOP POINT" : turn the yellow screw anticlockwise to increase the drop and clockwise to reduce the drop.

Once you have fixed the "CLOSED STOP POSITION", cut the threaded bars to the correct length to allow flush fitting of the trim kit suspended from the grill to the ceiling. Mount the bars to the profile of the lift and fix them to the mounting plates, using the M6 nuts supplied, as in PICTURES 3A, 3B and 3C below.



PICTURE 3A



PICTURE 3B



PICTURE 3C

Fit and align the trim kit by hanging the threaded rods from the slot as Picture 3C.

If the panel is not balanced, move the projector lift either releasing the screws that lock the "L" brackets to the aluminium profile making them sliding or releasing the screws that anchor the brackets to the ceiling using the sliding hole milled out of them (max 3 cm. the hole on the ceiling is central).

If the lift does not line up horizontally to the false ceiling, modify the length of the bars or the "CLOSED STOP POSITION", following the instructions above described.

The signal and power cables should run inside the plastic channel supplied. Remove the upper side of the plastic trunking and place the cables inside as shown below. ( Pictures 4A & 4B )



PICTURE 4A

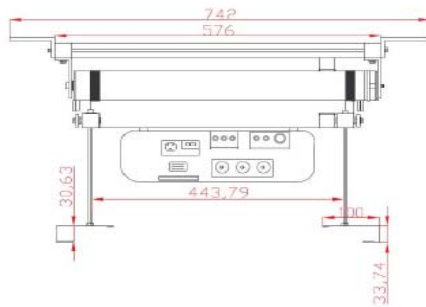


PICTURE 4B

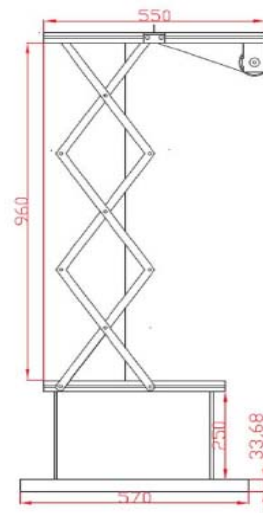
## TECHNICAL DATA

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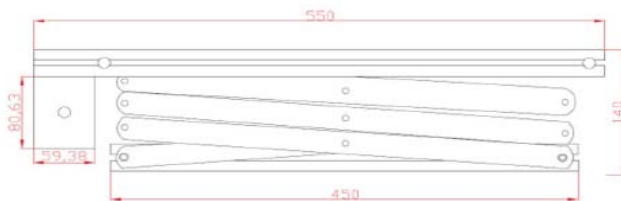
<b>POWER SUPPLY</b>	<b>230 V 50 HZ</b>
<b>MAX CONSUMPTION</b>	<b>90 W</b>
<b>TORQUE</b>	<b>8 NM</b>
<b>MOTOR SPEED</b>	<b>12 RPM</b>
<b>DIMENSIONS (CLOSED)</b>	<b>576X140X550 (WXHxD in mm.)</b>
<b>DIMENSIONS (OPEN)</b>	<b>576X1023X550 (WXHxD in mm.)</b>
<b>DIMENSIONS OF THE GRILLE</b>	<b>415x450 (W x D in mm.)</b>
<b>MAXIMUM CAPACITY</b>	<b>15 KG.</b>



CLOSED LIFT: FRONTAL VIEW



OPEN LIFT: SIDE VIEW



CLOSED LIFT: SIDE VIEW

S.I. – 100 Electrical Motor & Switch Connections : Wiring Diagram 'D'

TERMINALS	POWER SUPPLY	MOTOR (EUR) WIRES	MOTOR (US) WIRES
L	PHASE (L)		
N	NEUTRAL (N)	BLUE	WHITE
E →	EARTH →	GREEN/YELLOW	GREEN
1		BLACK OR BROWN	BLACK OR RED
2		BLACK OR BROWN	BLACK OR RED

