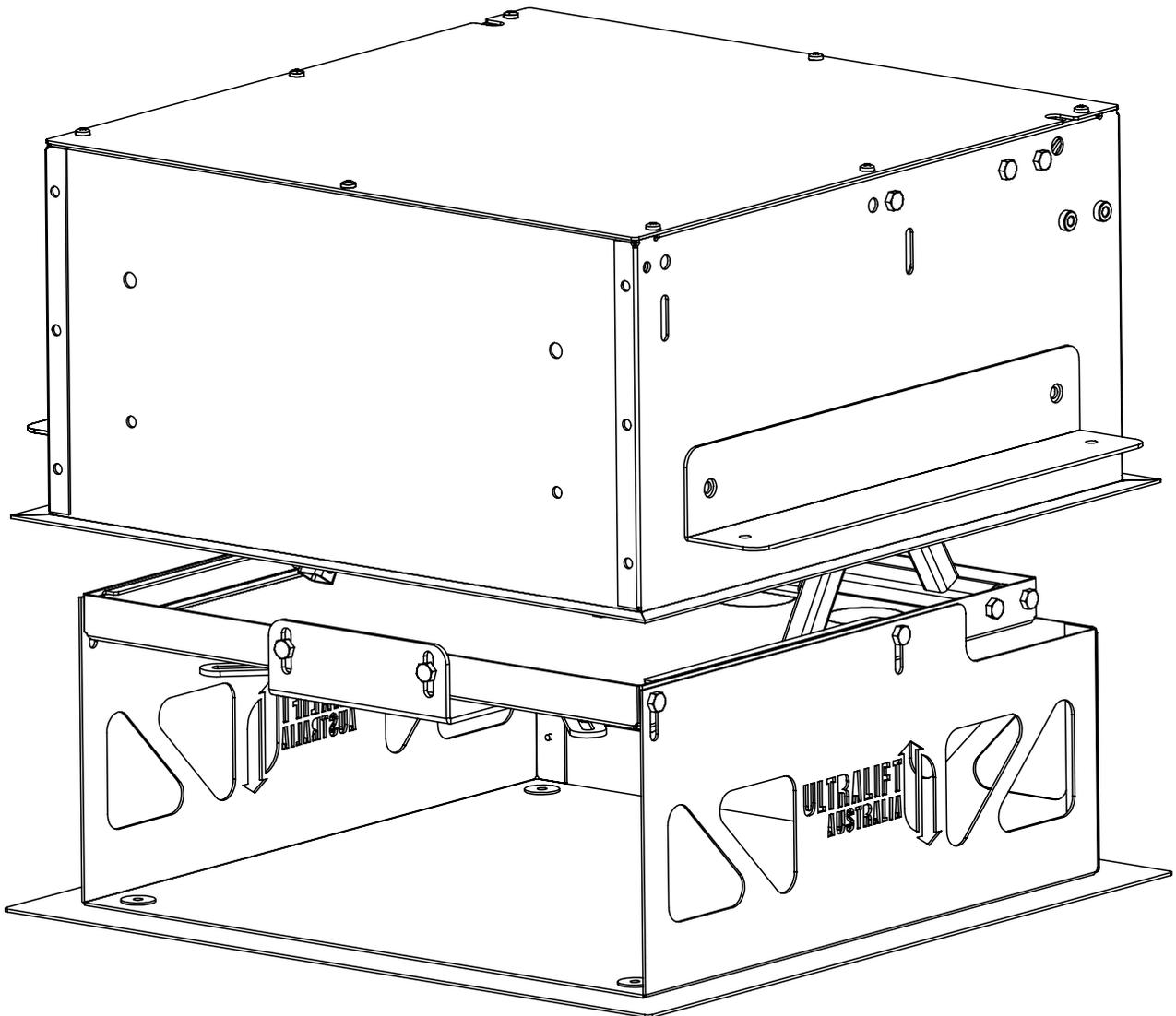


Prolift Mini Projector Lift

COVERS PROLIFT MINI 350/420,
PROLIFT MINI 420 & PROLIFT MINI 420/450



CAUTION

Safety Warning



Moving Parts:

Do not obstruct operation of mechanism with fingers or any object. Injury or damage could result. If adjusting the limits, do so prior to wiring into control systems.



Risk of Electrocutation:

Do not connect any power to the lift until installation is complete. Attach the display panel after the lift has been properly installed and tested. Unit operates on a 240V with a current draw of 0.1A.



Wear a Hardhat:

During installation this product or parts of it may move in unexpected ways. Wear a hardhat to ensure safety at all times.



Wear Protective Eyewear:

During installation this product or parts of it may move in unexpected ways. Wear protective eyewear to ensure safety at all times.



Be Prepared:

Organise your mounting hardware and have the necessary tools readily accessible before installation.



Do not expose to extreme temperatures or corrosive materials. Minimize exposure to the elements.

This will void your warranty and reduce the life of the product.



This product should only be installed by a qualified technician.

It may be illegal to install this product in your region if you are not a licensed technician . Doing so will also void your warranty.

Table of Contents

Parts List	4
Screw Kit	5
Prolift Mini Diagram	6
Pre Installation Preparation	7
Ceiling Cut-Out Sizes	8
1. Installation	9
• With roof access to ceiling joist	10
• With roof access to slab / suspended Ceiling	11
• Without roof access to ceiling joist	12
2. Cable management	13
3. Testing the Unit	14
4. Fitting the projector	15
5. Adjusting the limits	16
6. Wiring	
Motor Controller Overview	17
Operating the Device	18
Motor Controller Wiring	19
Specifications	20
Warranty and Returns Policy	21-22

Thank You

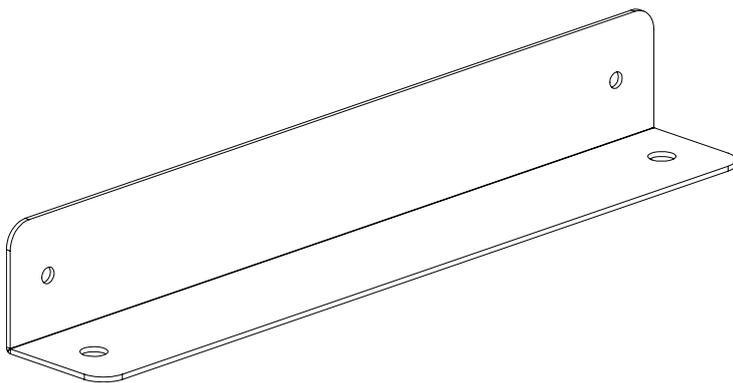
Thank you for purchasing this Ultralift product. We are sure you will enjoy this unit for years to come. Before installing, operating or adjusting this product, please read this instruction book carefully and completely.

Parts Checklist

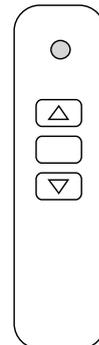
When you receive this product, please do the following to ensure you have all of the needed components included in the package.

- Open the carton & inspect for damage
- Locate the following parts:
 - 1 x Prolift Mini (Complete with pre-wired IR receiver)
 - 1 x IR hand held remote control
 - 1 x Screw Kit (see next page)
 - Fixing Cleats (for optional mounting)

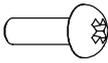
Mounting / Fixing Cleat



IR Remote Control

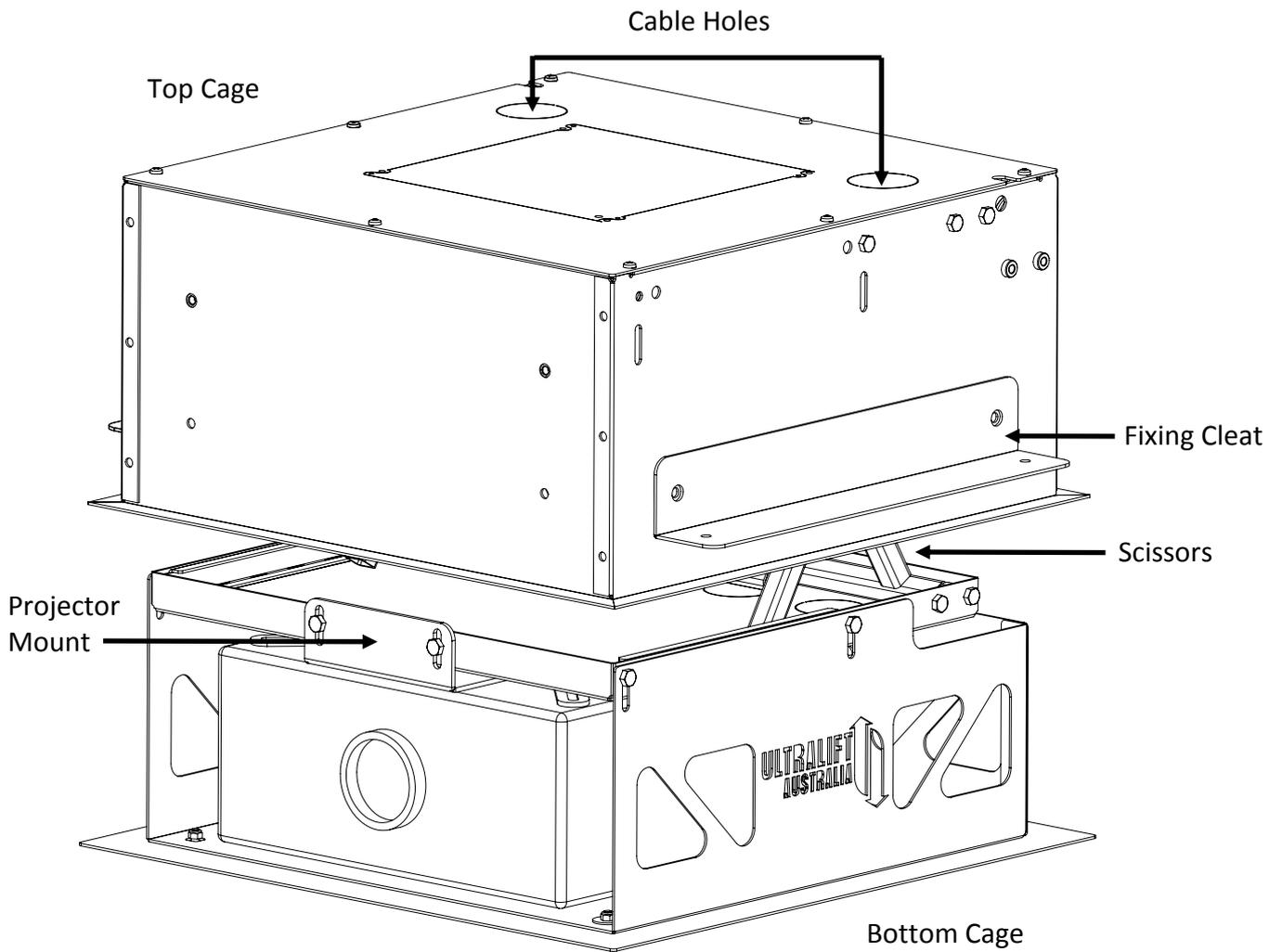


Screw Kit : Prolift Mini

A	<p>M4 Pan Phillips screws (12mm Long) Quantity: 4 To fasten certain Projectors to Mount Arm</p>	
C	<p>M4 Pan Phillips screws (20mm Long) Quantity: 4 To fasten certain Projectors to Mount Arm</p>	
E	<p>M4 Pan Phillips screws (35mm Long) Quantity: 4 To fasten certain Projectors to Mount Arm</p>	
G	<p>M6 Pan Phillips screws (12mm Long) Quantity: 4 To fasten certain Projectors to Mount Arm</p>	
I	<p>M6 Pan Phillips screws (20mm Long) Quantity: 4 To fasten certain Projectors to Mount Arm</p>	
K	<p>M6 Pan Phillips screws (35mm Long) Quantity: 4 To fasten certain Projectors to Mount Arm</p>	
M	<p>M4 Countersunk Phillips timber screws (25mm Long) Quantity: 8</p>	
O	<p>Cable Ties Quantity: 6 For cable management to keep leads tidy</p>	
B	<p>M5 Pan Phillips screws (12mm Long) Quantity: 4 To fasten certain Projectors to Mount Arm</p>	
D	<p>M5 Pan Phillips screws (20mm Long) Quantity: 4 To fasten certain Projectors to Mount Arm</p>	
F	<p>M5 Pan Phillips screws (40mm Long) Quantity: 4 To fasten certain Projectors to Mount Arm</p>	
H	<p>5.3 x 20 x 1.25 Washers Quantity: 4 Use with M4 or M5 Projector Mount Screws to fasten Projector to Arm.</p>	
J	<p>Small Nylon Spacer (10mm Long) Quantity: 4 Use with Projector Screws for some projectors</p>	
L	<p>Long Nylon Spacer (25mm Long) Quantity: 4 Use with Projector Screws for some projectors</p>	
N	<p>Motor Key Quantity: 1 Used to adjust motor limits.</p>	

M4x12, M4x20, M4x35, M5x12, M5x20, M5x40, M6x12, M6x20, M6x35 are used for different projectors. If you are using the M4 or M5 screws, make sure you use the included washers. Some projectors may have irregular shapes that make the shorter screws unsuitable for mounting. Use one of the longer screws instead, in combination with either the Short or Long Nylon Spacers provided.

Prolift Mini Diagram



Pre-Installation Preparation

Before Installing

- Based on the projector screen location and projector specifications, determine the proper position, location, and lift placement, to ensure the desired throw distance is achieved. Refer to your projector manual.
- Check above the ceiling for obstructions (i.e. water pipes, cables and duct work) before beginning installation and ceiling cut outs.
- After establishing the correct projector lift location, cut a hole in the ceiling as per the ceiling cut out sizes on the next page and build in mount battens (if required) to suit the cut out, so that the Prolift Mini can be securely mounted in the correct position.
- Note: You may choose to remove the lid from the Prolift Mini and use it as a marking template for your ceiling cut out. Please mark oversize to cut out dimensions.
- Route AV cables from the source to the roof location where the Lift will be installed.
- Ensure that a double power point has been installed in the roof (or where suitable) so that the Lift and projector can receive power.
- Read instructions completely before proceeding. Follow instructions carefully. Installation contrary to instructions invalidates warranty.

CAUTION:

- Unit must be installed level.
- The entire bottom of the unit must be unobstructed to permit proper operation.
- Do not obstruct operation of lift with fingers or any object. Injury or damage could result.
- Check above the ceiling for obstructions (i.e. water pipers, cable and duct work) before beginning installation and ceiling cut outs.
- Do not connect any power to the lift until installation is complete
- Attach the projector only after the lift has been properly installed and tested.
- Unit operates on a 240V with a current draw of 0.1A.
- When setting the projector drop limit, do not adjust the 'up' limit. The maximum up limit is set from the factory, do not drive up any further or damage to the lift may occur and void lift warranty.
- If adjusting the limits, do so prior to wiring into control systems.

Ceiling cut-out sizes

Model	Description	Hole dimensions (mm)	
		Width	Depth
Prolift Mini 350/420	Projector Lift– Max. 200mm Travel	430	360
Prolift Mini 420	Projector Lift– Max. 200mm Travel	430	430

Installation into Roof Cavity

This is best done with two people.

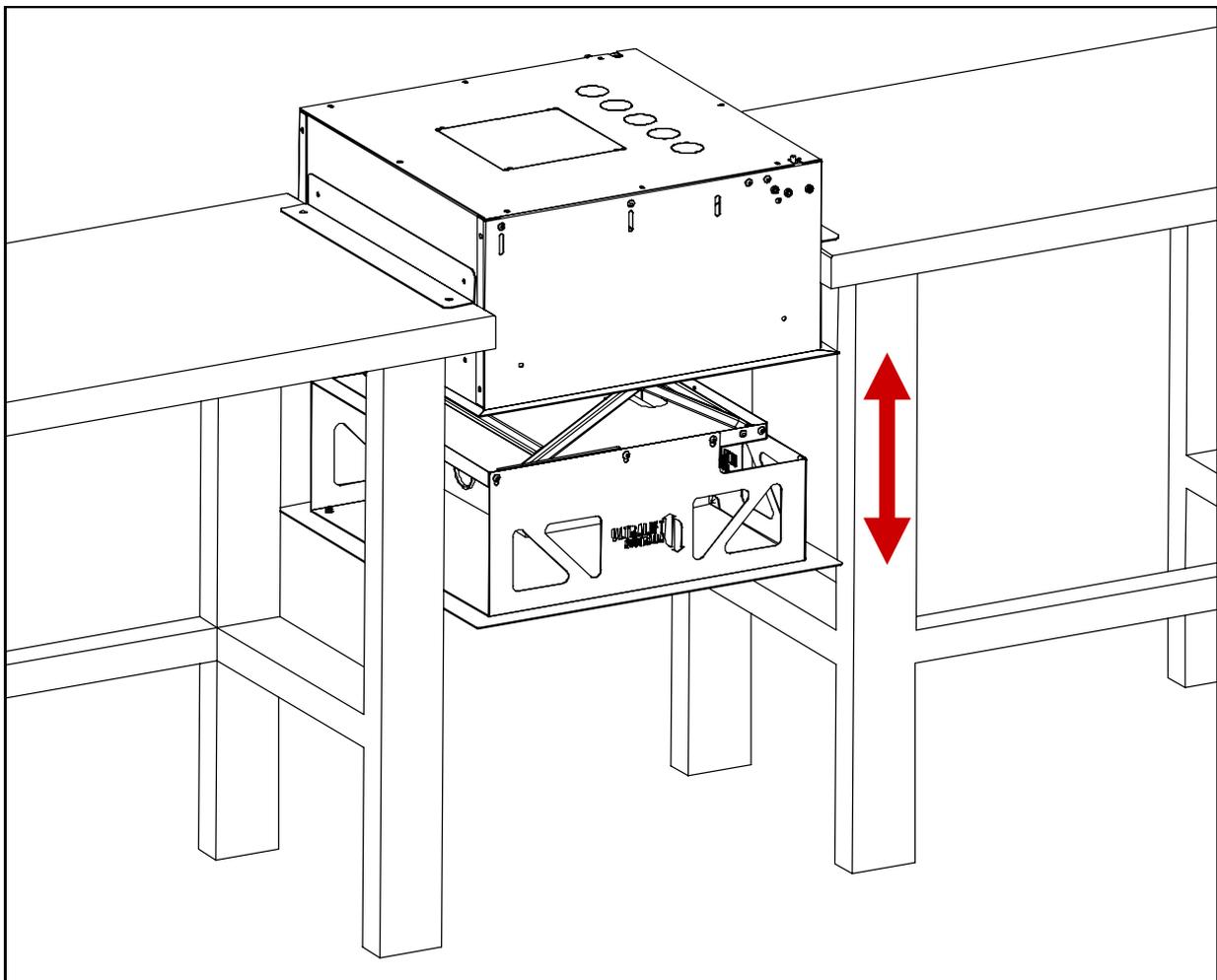
There are three installation methods:

1. Installation with roof access above the ceiling to ceiling joist
2. Installation with roof access above the ceiling to concrete slab / suspended ceiling
3. Installation without roof access to ceiling joist

Please lower the lift (instructions below) and then follow the appropriate guide for the installation method that applies to you.

Lowering the Lift

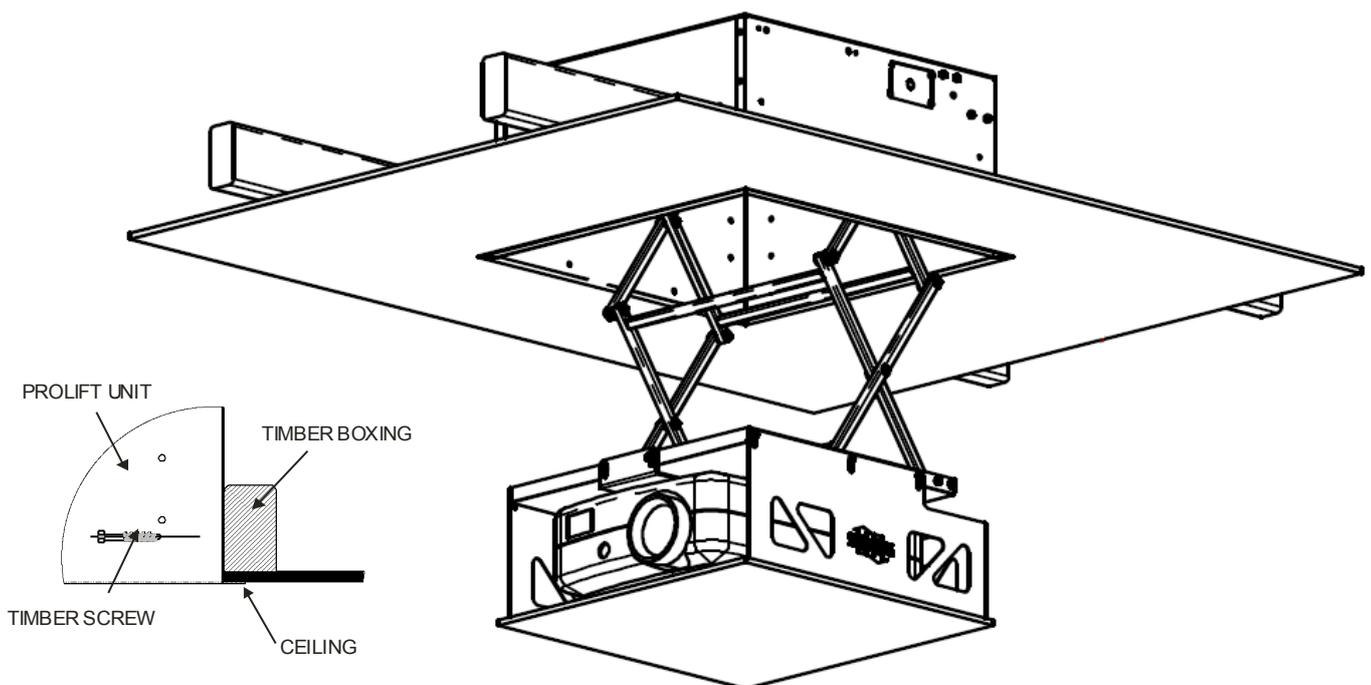
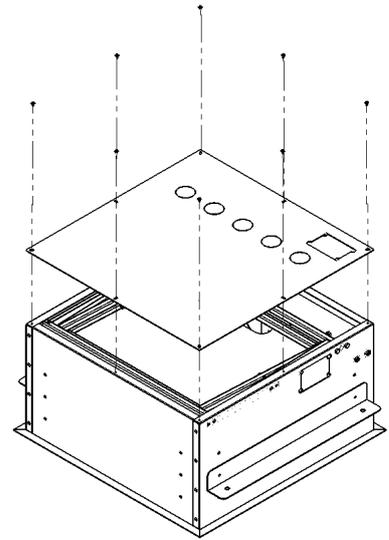
1. Carefully set up the projector lift on a solid bench between two rails before attempting to install into the ceiling.
2. Plug in power lead to power point and power Prolift Mini down to its maximum drop using the hand held remote control.



Installation into Roof Cavity with roof access above the ceiling to ceiling joist

Installation:

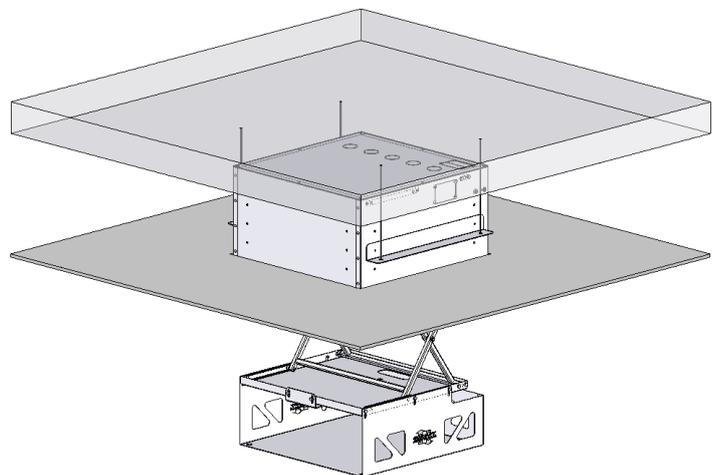
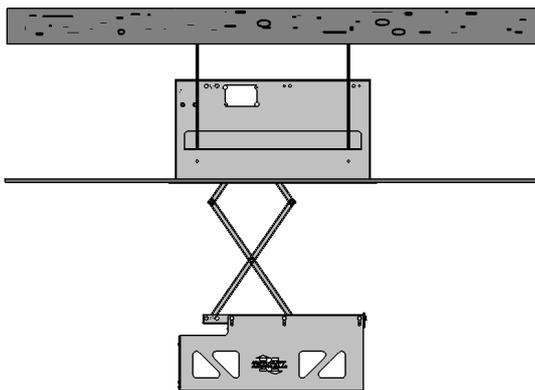
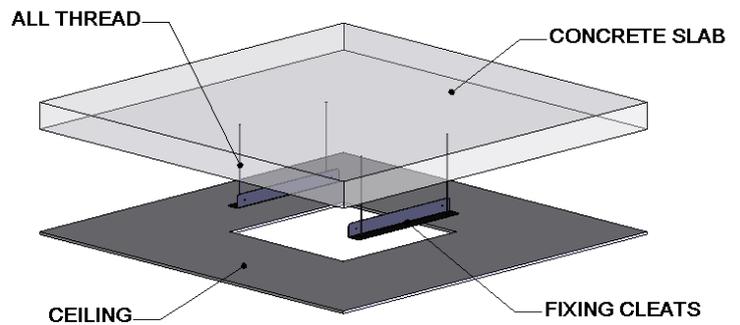
1. Remove the lid from the top of the lift by removing the 8 x Phillips head screws.
2. Fit the Prolift Mini into the pre cut hole in the ceiling from the underside, ensuring that the lift is facing the correct direction (the motor should be at the rear) and that the flange is hard up against the plaster.
3. From inside the roof, screw into the pre positioned timber mounting battens using the counter sink head timber screws supplied. Screw through the multiple fixing holes in the outer casing walls and then securely screw through into the battens.
4. Proceed to the page named "Cable Management."



Installation into Roof Cavity with roof access above the ceiling to concrete slab / suspended ceiling

Installation:

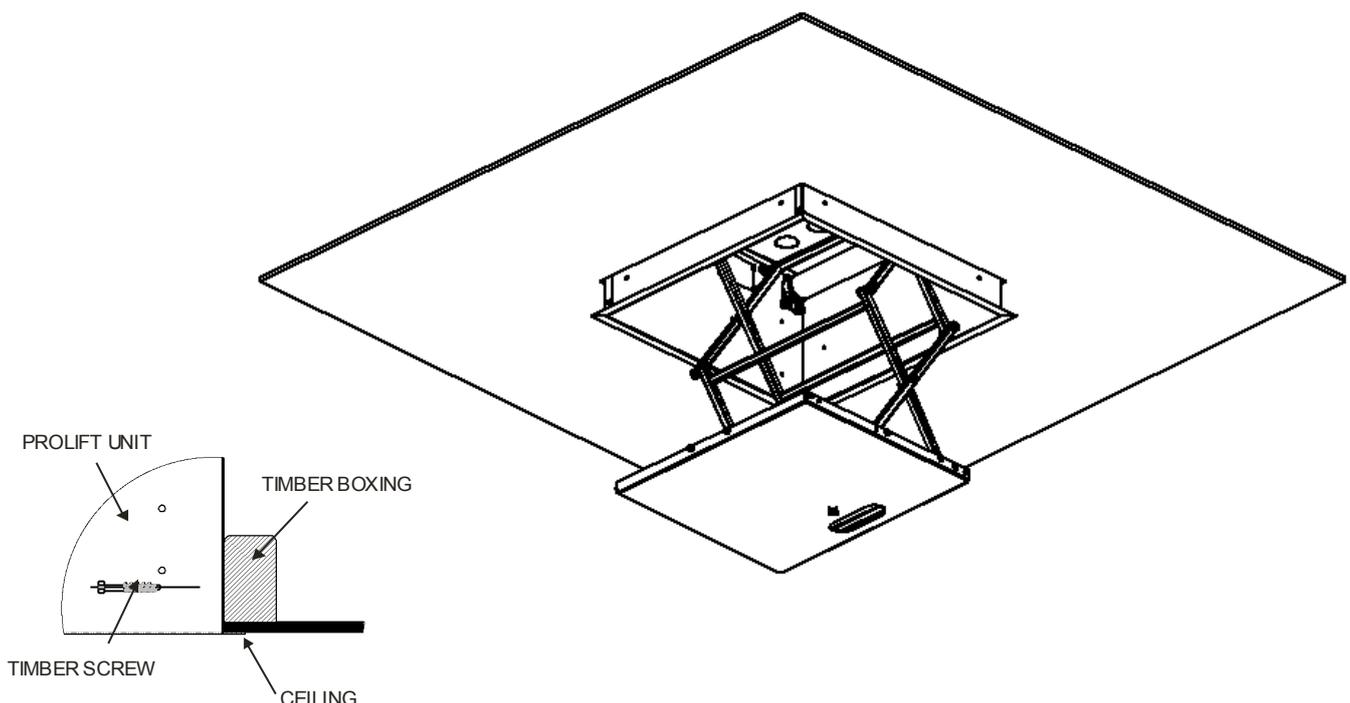
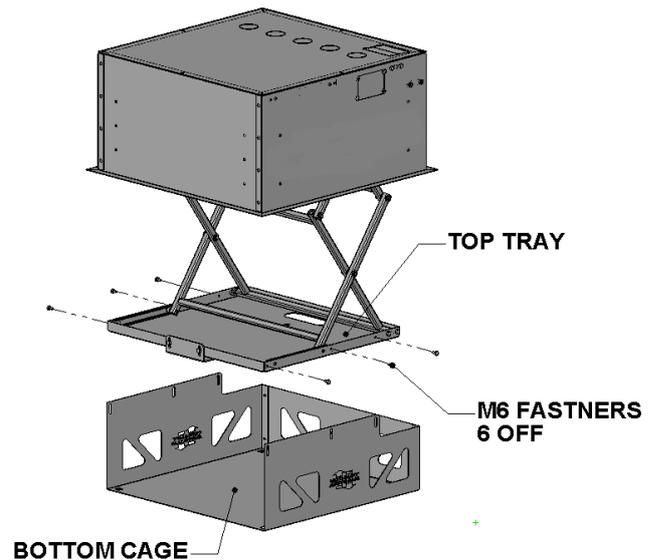
1. Pre fix 6mm all thread x 4 (not supplied) to the slab
2. Bolt cleats to all thread using 4 x M6 nuts (not supplied)
3. Fit the Prolift Mini into the pre cut hole in the ceiling from the underside ensuring the lift is facing the correct direction (motor should be at rear). Fix cleats using 4 x M6 x 12 Long hex head bolts and nuts.
4. Adjust and tighten M6 nuts and lock nuts on all threads, ensuring that the underside flange is hard up against the plaster.
5. Proceed to the page named "Cable Management."



Installation into Roof Cavity without roof access to ceiling joist

Installation:

1. While the lift is set up on a solid bench between rails, remove the bottom cage by unbolting the 6 x M6 fasteners (3 each side) from the top tray, then raise back to its up position.
2. Break open the breakout holes in the lid for cable access.
3. Fit the main Prolift Mini casing (less bottom cage) into the pre cut hole in the ceiling from the underside, ensuring the lift is facing the correct direction (motor should be at the rear). As you are positioning the Prolift Mini, feed the AV cables through the most suitable breakout or slot provided in the lid and run the cables down to where the projector will be positioned.
4. From the underside, fix the lift in position through the side casing walls using 8 x timber screws, ensuring the underside flange is hard up against the plaster.
5. Re install the bottom cage by bolting it back to the top tray using the 6 x M6 fasteners.
6. Proceed to the page named "Cable Management."



Cable Management

1. For projector lifts with only one scissor, cable management is not necessary, however please note the following.
2. Run the AV cables through the suitable breakouts or slot provided in the lid and rout cables down to the projector position.
3. Ensure the AV cables are safely tied away from the scissor using the cable ties provided.

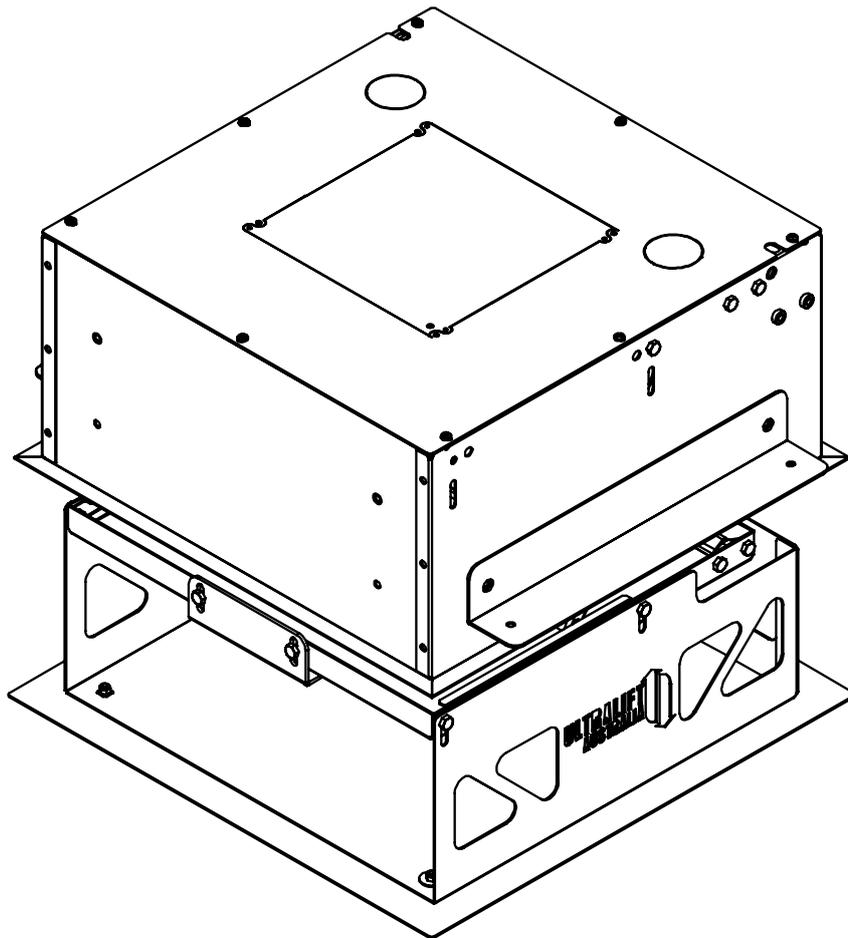
CAUTION: Ensure that no cables are interfering with the scissors to avoid pinching of the cables. Test this by pushing bottom tray up and down by hand before running unit. Please note that the installer is responsible for ensuring the cables do not interfere with the scissor mechanism as the unit raises and lowers

4. After all cables are attached, clip the ends of the cable ties and adjust the cables so they don't interfere with the scissor mechanism.
5. When the AV cables are safely tied back, screw the top lid back into position. The lid must be replaced to keep dust and grit out of the lift and projector (only applicable if installing into roof cavity with roof access above the ceiling to ceiling joist)
6. If installing into roof cavity without roof access to ceiling joist, remember to re install the bottom cage (previous page)

Testing the Unit

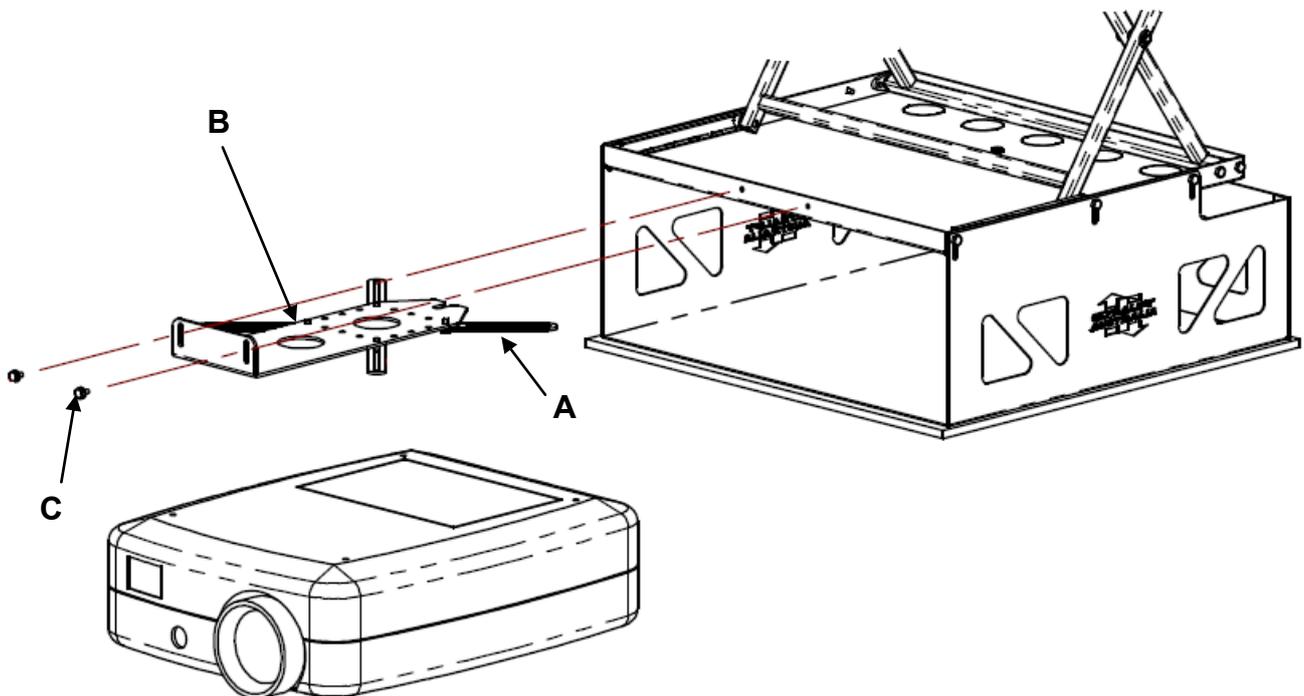
1. Plug the unit into the power point
2. Expose the IR eye in a suitable position
3. Using the IR remote control, press the up and down controls to test the lift and ensure the cable management is suitable.

CAUTION: When using the projector lift for the first time, lower the lift down to its full extension (motor will stop). This will ensure proper cable spooling as the lift retracts



Fitting the Projector to the Prolift Mini

1. Remove the projector mount via the two screws (C).
2. Adjust the four mounting arms (A) of the quick release projector mount to fit your projector mounting points. Fix your projector to the underside of the bracket using the appropriate hardware provided. The mounting arms can be removed and re-fitted to alternate positions to suit the application.
3. Position the Spider Projector Mount (B) into the locating pin in the top tray and loosely fit the two adjusting screws (C).
4. Remove the rear cover panel by removing 5 x Phillips head screws.
5. Connect cables to the projector.
6. Refit the rear cover panel.
7. Pan and tilt of your projector can be adjusted to suit the situation.
8. Tighten the adjusting screws to lock the projector mount into place.



Adjusting Motor Limits

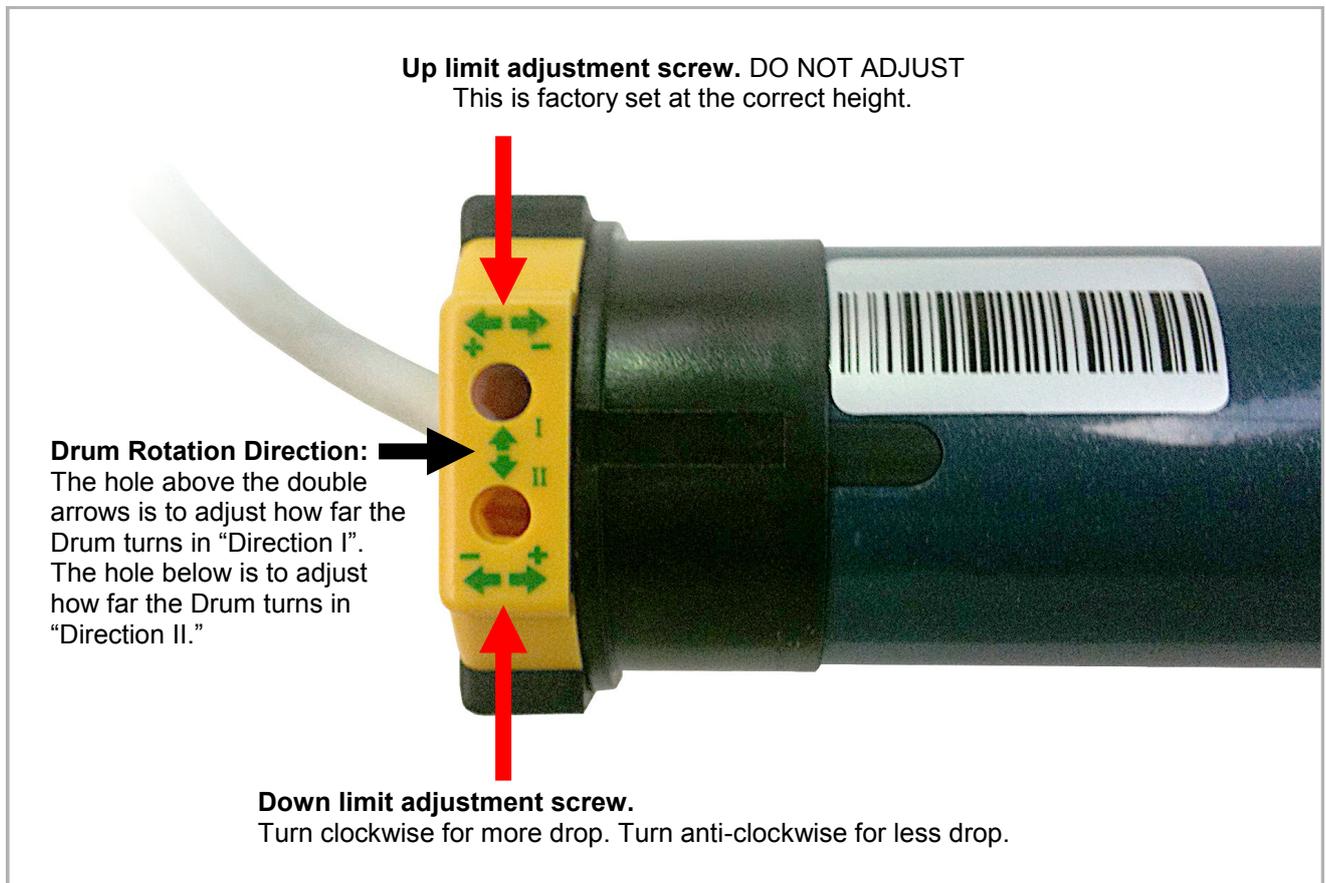
When adjusting the motor limits use the motor key.

If adjusting the limits, do so prior to wiring into control systems.

Raise the Lift using the IR hand held remote

1. Lower by adjusting the desired down motor limit.

CAUTION: When setting the motor limits, adjust the Down limit with caution. The Up and Down limits are set in the factory to recommended positions. Minor adjustment may be necessary to the down limit. In the rare case that the factory settings are slightly out, the down limit may be adjusted with caution. Minor adjustment may be necessary if the weight of your screen or projector has sagged the cable length. When setting the projector lift drop limit, **DO NOT** adjust the up limit. The maximum up limit is set from the factory, do not drive up any further or damage to lift may occur and void warranty.



Motor Controller Overview

The Motor Controller allows you to control your Ultralift device with an IR or RF remote control or dry contact switch. Please read the next few pages to find out how to install and configure the Motor Controller for use with your Ultralift device.

Motor Controller Specifications

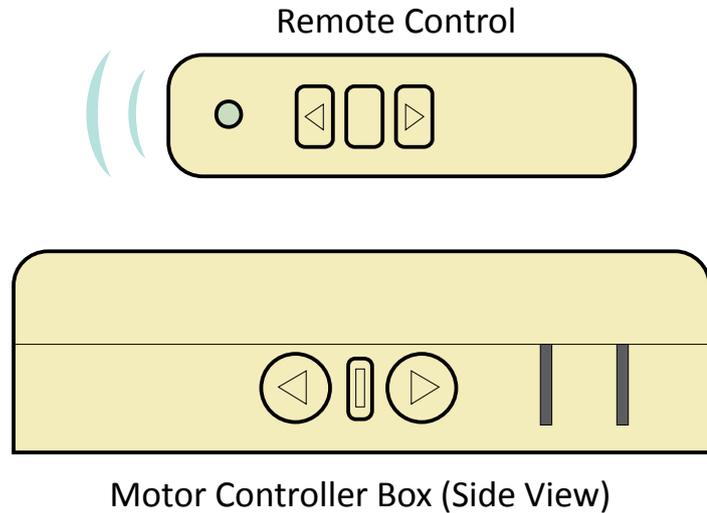
- Main Supply: 220VAC/50Hz \pm 10%
- Output: 220VAC/2.5Amp
- Maximum motor running time 5 minutes
- Both RF and IR receiver; Dry contact closures.
- External IR Lead; Built in IR Eye.
- 12 Volt trigger input for projectors
- Programmable



Operating the Device

Motor Controller Specifications

- Input: 220VAC/50Hz ±10%
- Output: 220VAC/2.5Amp
- Maximum motor running time 5 minutes
- Both RF and IR receiver; Dry contact closures.
- External IR Lead; Built in IR Eye.
- 12 Volt trigger input for projectors
- Programmable



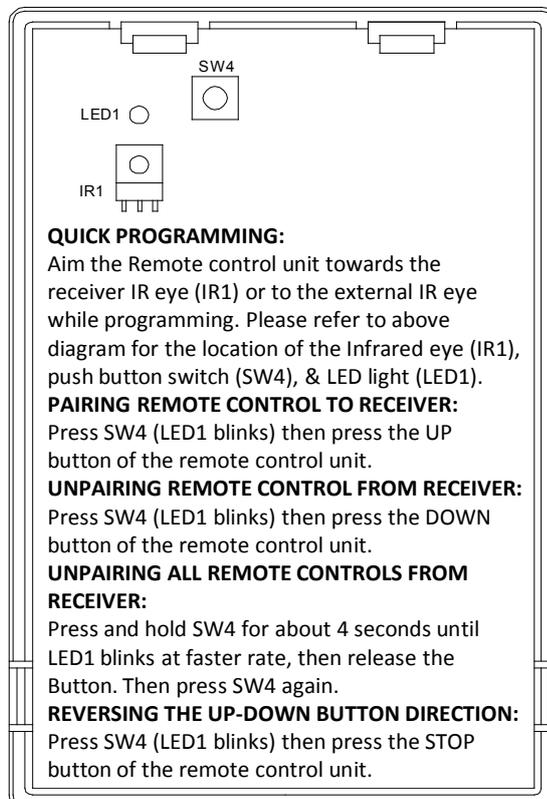
Hex Codes

UP	0x0B
DOWN	0x43
STOP	0x23

Please Note:

Depending on the device the motor control box is connected to, the codes for UP and DOWN may be reversed.

DO NOT OPEN BOX WITH POWER ON!
Please Refer to instructions on inside of Motor Controller Box lid for further instructions.



Motor Controller Wiring

The Motor Control box may be connected to Automation systems using IR, 12V trigger, or Contact Relay.

IR Eye (IR1)
Receives Infrared signals from remote control through IR window.

Power LED under IR1 (LED1)
Illuminates when Motor Controller is connected to AC Power. White in appearance. Located on PCB surface.

12V Trigger (JP2)

A: NC
B: GND
C: +12V
D: NC

Program Button (SW4)
Used to pair/link remote controls with the Motor Controller.

AC Main Power (CNT1)

L: ACTIVE
N: NEUTRAL
E: EARTH

External IR (IR2)
Used to connect a lead to an external IR Eye.

A: +5V
B: IR SIGNAL
F: GND

Motor Cable Terminal (CNT2)

E: EARTH
N: NEUTRAL
L: UP OR DOWN
R: UP OR DOWN

Dry Contact (DRY1)
Used to connect Motor Controller to Dry Contact.

C: UP
D: STOP
E: DOWN
F: COMMON

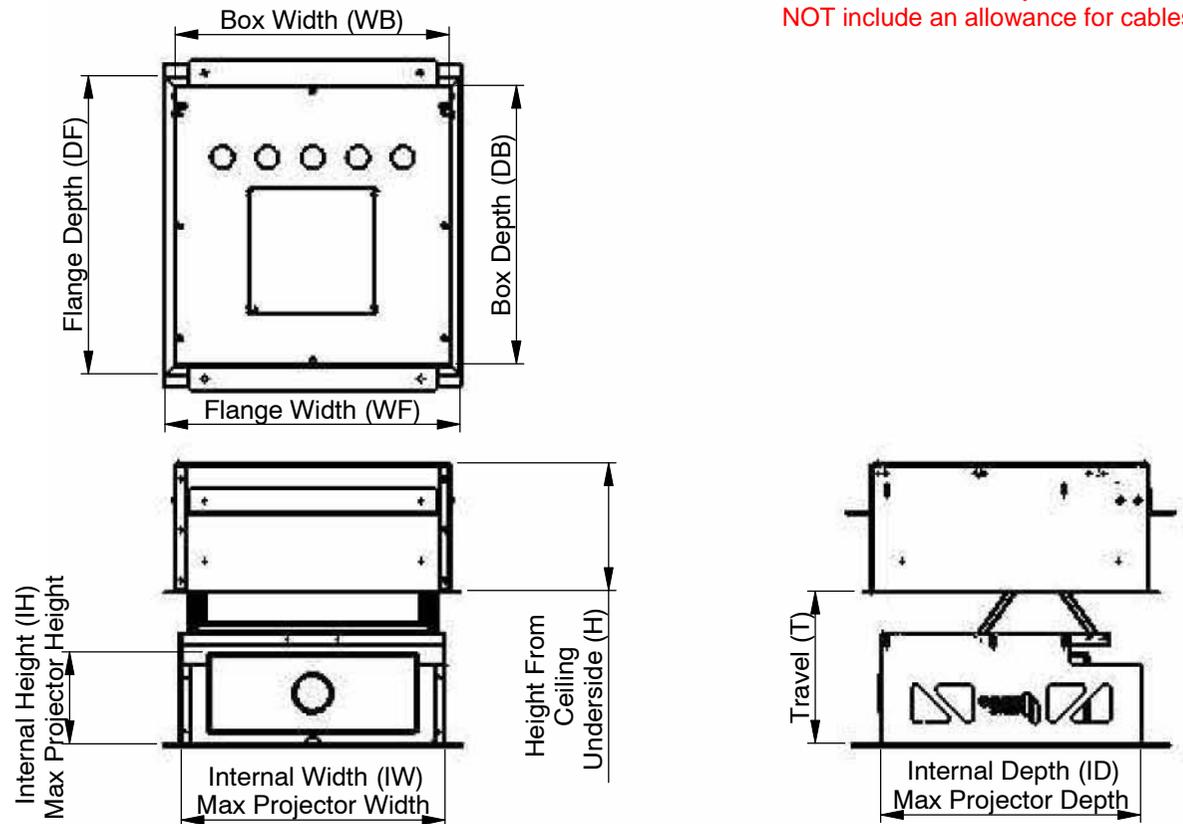
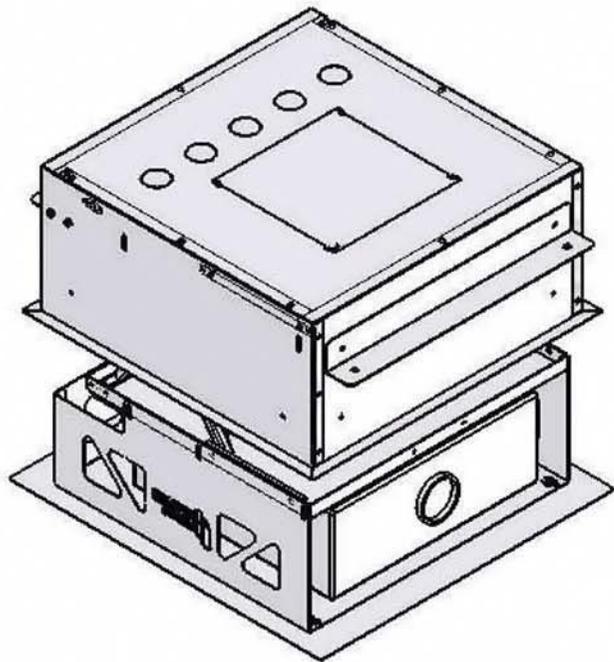
DO NOT OPEN BOX WITH POWER ON!
Please Refer to instructions on inside of Motor Controller Box lid for further installation instructions.

NOTE: PRODUCT DIMENSIONS ARE SUBJECT TO CHANGE

PLEASE CALL US TO CONFIRM DIMENSIONS BEFORE PURCHASING, BUILDING FURNITURE, CUTTING INTO WALLS, CEILINGS OR FURNITURE OR PREPARING FOR INSTALLATION.

Model	Description	Max projector weight	Outer Dimensions					Max Projector Size			Travel
			H	WB	DB	WF	DF	IH	IW	ID	T
Minilift - 350/420	Mini 350 Projector Lift - Maximum 200mm Travel	10kg	215	420	350	447	377	120	390	315	188
Minilift - 420	Mini 420 Projector Lift - Maximum 200mm Travel	10kg	215	425	420	447	447	120	390	385	200
Minilift - 420/450	Mini 450 Projector Lift - Maximum 200mm Travel	10kg	235	455	420	477	447	140	420	385	240
Prolift 24-1	Projector Lift - Maximum 315mm Travel	25kg	255	555	552	587	589	165	520	515	305
Prolift 28-2	Projector Lift - Maximum 630mm Travel	25kg	295	555	552	587	589	165	520	515	585
Prolift 28-3	Projector Lift - Maximum 945mm Travel	25kg	295	555	552	587	589	165	520	515	915
Prolift 32-4	Projector Lift - Maximum 1255mm Travel	25kg	335	555	552	587	589	170	520	515	1225
Prolift 32-5	Projector Lift - Maximum 1565mm Travel	25kg	335	555	552	587	589	155	520	515	1487
Maxilift 34-2	Maxi Projector Lift - Maximum 720mm Travel	40kg	350	650	650	690	690	210	590	605	665

Please note: Max Projector Sizes do NOT include an allowance for cables.



Warranty and Returns Policy

At Ultralift Australia Pty Ltd, we take pride in the fact that our products are of the highest quality. Because of this, we offer the following programs to ensure your satisfaction.

ULTRALIFT 2 YEAR WARRANTY

1. The product is warranted for 24 months from the date of invoice. Subject to the conditions of this warranty, Ultralift Australia or an authorised installer will perform necessary service on the product without charge for parts or labour if, in the opinion of Ultralift Australia, the product is found to be faulty within the warranty period.
2. This warranty only applies to Ultralift Australia products when purchased from Ultralift Australia or from an authorised dealer.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the instruction manual) under normal use and reasonable care (in the opinion of Ultralift Australia). The warranty covers normal domestic, commercial or educational use only. It does not cover damage, malfunction, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. If warranty service is required you should:
 - Contact your installer for advice on how to rectify the issue.
 - If this does not solve the problem please call Ultralift Australia on 61 3 9459 0873 for advice.
 - If the device requires service, return the product to Ultralift Australia for repair.
 - **Please Note:** Freight and insurance to and / or from the location of the device must be arranged by you. Please ensure that items returned are packed in an appropriate manner.
5. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product. This includes costs related to the mounting, de-mounting or re-mounting of any screen, (and any other ancillary devices), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement to such installation, deinstallation, re-installation or transit.

Ultralift Australia Pty Ltd

Email: sales@ultraliftaustralia.com.au

Web: www.ultraliftaustralia.com.au

Phone: 61 3 9459 0873 **Fax:** 61 3 9457 6686

10 Vernon Ave, Heidelberg Heights VIC 3081 Australia



OUR HASSLE FREE RETURN PROGRAM

Our thirty day return program means you may return your purchase, excluding special orders and/or non stock products, to us should you be dissatisfied with your purchase within thirty days of receipt of the product. You must return the item(s) to us by 2nd day freight, insured for full value, with original packaging, documentation, all manuals and accessories. Freight charges, for delivery and return and related insurance charges, will not be refunded or credited. There will also be a restocking fee of 15% of the purchase price.

CONDITIONS OF RETURNED ITEMS

Do not write on the box. If the box is written on, the returned product will be refused. Be in the original shipping carton with all original packing material. Include all accessories in their original wrapping/packing material. The actual replacement cost for missing items will be deducted from your refund/credit. Include all manuals, warranty information and instructions. The actual replacement cost for missing items will be deducted from your refund/credit.

DEFECTIVE OR D.O.A. PROGRAM

In the case of defective or D.O.A. product(s), no charges will apply. Our Customer Service team must be notified within 30 days of your invoice date if there are any problems with any item(s) upon receipt. Defective or D.O.A. merchandise will be repaired and returned or exchanged for the same make or model.

FOR ITEMS DAMAGED DURING TRANSPORT

Ultralift Australia Pty Ltd endeavours to use reputable carriers, but occasionally shipping damage does occur. Resolving the problem of transit damage or loss depends on the cooperation of all parties. In the event of damage or loss it is imperative that you follow these guidelines:

1. Inspect all shipments upon arrival. If damage or loss is apparent upon delivery, do not accept the goods and do not sign for damaged or missing cartons. If you do accept the goods, keep all packing materials and boxes with the damaged product.
2. Immediately advise Ultralift Australia of all damages or problems with the delivery of goods.

REFUNDS

Established Account:

A full refund will not be issued if the purchaser's account has an open balance. A credit memo will be issued, and credit will be applied first to the invoice on which the products were purchased, then to any other open invoices on the account, beginning with the oldest invoice.

Credit Card / EFT:

All refunds for purchases made by Credit Card/EFT will be issued as a credit to that same account within a reasonable period of time after inspection of returned products.

Cheque:

All refunds for purchases paid by cheque, whether prepaid, C.O.D., or account, will be paid by cheque within a reasonable amount of time, after inspection of returned products.

Ultralift Australia Pty Ltd

Email: sales@ultraliftaustralia.com.au

Web: www.ultraliftaustralia.com.au

Phone: 61 3 9459 0873 **Fax:** 61 3 9457 6686

10 Vernon Ave, Heidelberg Heights VIC 3081 Australia



THANKYOU FOR CHOOSING
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AUSTRALIA**



Ultralift Australia Pty Ltd

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Member

