

LP Morgan **Resi-Lift** manual



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CAUTION:

- Follow instructions carefully. Installation contrary to instructions invalidates warranty.
- Do not obstruct operation of Resi-Lift with fingers or any object. Serious injury or damage could result.
- The Resi-Lift is designed to accommodate ceiling suspended equipment.
- Equipment should not be allowed to rest on ceiling closure during operation.
- Entire bottom of unit must be unobstructed to permit proper operation.
- Unit must be installed level (use a carpenter's level).
- Unit operates on 220V AC current.

NOTE:

- Unit has been thoroughly inspected and tested at factory and found to be operating properly prior to shipment.
- Warranty does not cover installation or uninstallation.

Planning

Based on screen location and projector specifications, determine proper position for projector installation.

Confirm that there is adequate space for installation and operation. Minimum clearance above ceiling level varies according to Resi-Lift plus height of projector, optional projector mounting bracket, optional ceiling closure, and optional environmental airspace housing.

Arrange to provide service access to the unit.

As Soon As Resi-Lift Arrives:

- Open carton and inspect for damage.
- Locate the following parts:
 - a.) The unit itself;
 - b.) Controls;
 - c.) Any optional equipment.

Electrical connections

Unit operates on 220v AC, 50 Hz. current.

The Resi-Lift is shipped closed, with a temporary field connection provided in the form of a pigtail temporarily wired to the unit. After hanging the unit, make sure power is off and use this pigtail to temporarily connect the unit to power and to a switch, so the unit can be lowered to allow access inside.

Please note: Make sure electrical supply has been disconnected before attempting to connect Resi-Lift to power.

Terminal strip for field connections is located inside the unit on the left (as seen from front, or non-scissored end). Unit is shipped with internal wiring complete to the terminal strip. Once the unit has been lowered, turn off power, disconnect temporary pigtail from unit, then complete permanent wiring to electricity and to switches. Wire to connect unit to power supply and to switches should be furnished by installer. Connections should be made in accordance with wiring diagram, and wiring should comply with national and local electrical codes. All operating switches should be "off" before power is connected.

Resi-Lift should be operated and checked prior to installing projector and/or optional ceiling closure.

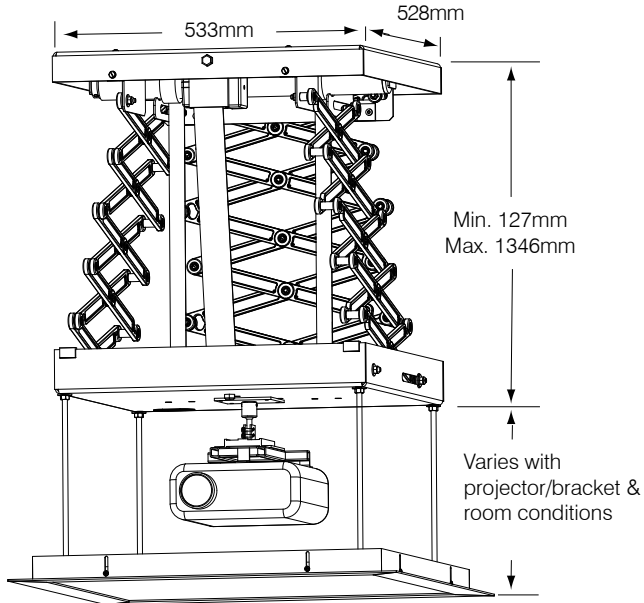
NOTE:

Resi-Lift is USA made and therefore has imperial dimensions.

Operation

When unit is first operated, be cautious! If unit fails to operate when the switch is flipped “down”, return switch to “off” and recheck electrical connections before proceeding. Cycle unit down and up several times to confirm satisfactory operation.

220V Single Station Control (CE Approved) - 3-position UP - OFF - DOWN switch permits operation to be stopped at any point. Factory set limit switches automatically stop lift when fully down or fully up.



Installing projector

Generally, the video projector should be suspended from the bottom pan according to **LP Morgan Skyhook instructions** (Included in the package).

If for any reason the hole placement must be changed, completely lower Resi-Lift before attempting to drill new holes.

Control cables (maximum of four) should be laced through our Cable Management System (back scissor only). This will ensure that cords do not become tangled and damaged during Micro Projector Lift operation. Unit and projection system should be operated, checked and adjusted as necessary at this time (see below for limit adjustment procedures).



WARNING:

Keep fingers & other objects away from ceiling closure & scissor mechanisms when unit is operating. Serious injury or damage can result.

Adjustments

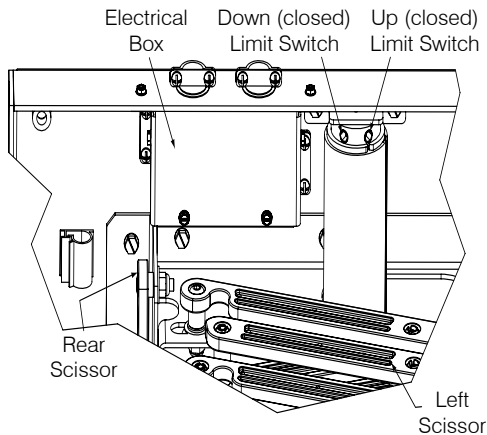


CAUTION:

Be sure all switches are in “off” position before adjusting limit switches. Always be prepared to shut lift off manually when new adjustment is being tested.

Please refer to diagram below for these instructions.

Limit switches for the Resi-Lift are preset at the factory. The “Up” (closed) limit switch is set for fully closed. The “down” limit switch is set for 607mm. Once unit is in place, the “down” limit switch may need to be changed to stop the Resi-Lift closer to the ceiling (that is, raise the “down” position) or further from the ceiling (that is, lower the “down” position). Limit switches are located on the left end of roller (as seen from the front, or non-scissored end, of the unit) and are accessible to a screwdriver/Allen wrench ($\frac{5}{32}$ ”).



CAUTION:

It is not uncommon to overheat the motor during initial installation when setting limits. The motor is thermally protected and will stop working until it has cooled to a safe temperature before it will start operating again.

Adjusting down position

“Down” position may be adjusted by turning limit switch adjustment socket number 1. Turning the socket clockwise will stop the Micro Projector Lift closer to the ceiling. Turning it counter-clockwise will cause the lift to stop at a lower point.

Adjusting up (closed) position

Because the “up” (closed) position is preset at the factory, LP Morgan does not recommend changing this position using the limit switch. The “up” position of the closure may be changed by changing the length of threaded rod (see instructions for closure installation). If necessary, however, “up” position may be adjusted by turning limit switch adjustment socket number 2. Turning the socket counterclockwise creates a higher, or more fully closed position. Turning it clockwise creates a lower ‘UP” (closed) position.



CAUTION:

Do not set limit switch so that the Resi-Lift motor is still running after the lift is closed. This could result in damage to the motor

Installing ceiling closure

If your Resi-Lift is equipped with a ceiling plate system, it can be used as is, or in conjunction with a square of existing ceiling tile. Please refer to diagram below for these instructions.

Manual Installation Notes

When the Resi-Lift is in the closed position, determine the spacing from the plate to the faceplate to allow for fitting of the projector/bracket and ceiling tile fitting.

- Cut the all thread hanging rod to suit the spacing distance plus an additional 50mm. Screw 50mm of hanging thread up inside the baseplate
- The hanging rods should be at the shortest length possible to ensure the ceiling faceplate assembly does not shake or interfere with the cut-out or trim, as it returns to its closed position.

Screw the 4 rods into the base plate threaded holes (475mm centres).

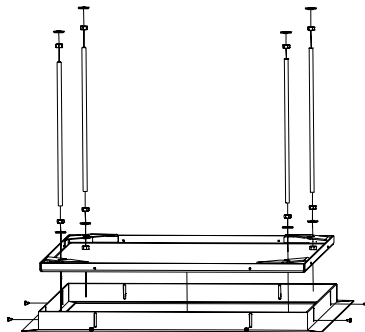
Position the faceplate onto the hanging rods securing with washers and nuts both sides of the faceplate/ceiling tile brackets.



CAUTION:

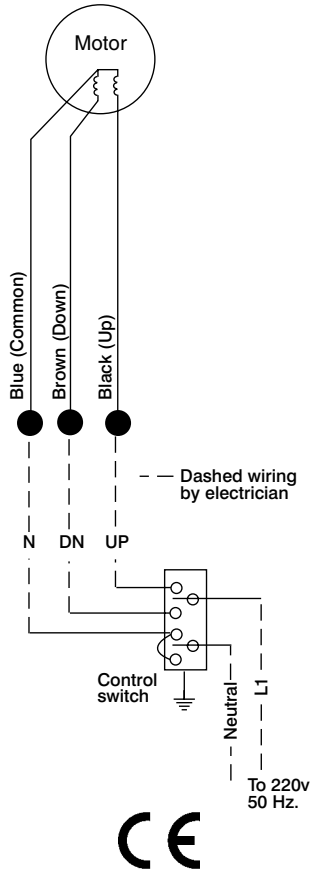
- Make sure the nuts are completely tightened.
- DO NOT hang from, "ride" or pull down on the unit. This could create a failure and cause damage and/or injury.

Check the faceplate/ceiling tile is flush with the surrounding ceiling panel and adjust as necessary by threading the hanging rods up or down as required.



Wiring diagrams

Single Station Control
(CE Approved)



IMPORTANT:

If you are operating this unit with an IR Remote please see instructions for LPM45IRKIT, enclosed in your package.

Warranty information

Keep your original receipt for warranty.

Please fill out the online warranty form in order to qualify for the manufacturer's warranty.

<http://www.lpmorgan.com.au/owners.html>

The warranty covers defects in workmanship and materials, provided this product has been installed in a normal environment and maintained according to the written instructions. Herma warrants the product against loss of usefulness, discolouration or deterioration of optical quality within the warranty period as a result of manufacturing or material defects. This warranty applies only within Australia.

Please return your goods to the place of purchase for all warranty claims.

Conditions

Any equipment replaced pursuant to the terms of this warranty shall be retained by Herma.

All costs related to de-installation and re-installation of the product covered by this warranty are not the responsibility of Herma Technologies. Herma will not be responsible for any consequential damages during or following installation procedures.

Herma is not responsible for any freight costs relating to repair or replacement. Equipment must be returned to Herma in suitable packing to prevent damage in transit. Herma will not accept any responsibility for damage to the equipment caused by inadequate or unsuitable packing, or for any damage howsoever caused whilst the goods are in transit.

Herma Technologies shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of, misuse of, or inability to use, the equipment.

This Warranty does not cover any product which has been subjected to misuse, abuse, neglect, accidental or intentional damage, improper voltage or any alteration which affects the reliability or performance of the equipment not attributable to faulty manufacture, parts or labour and without limiting the generality of the foregoing.

This Warranty does not cover any product where usage, adaptation or installation are not in accordance with our written installation and operating instructions.

Warranty Period:

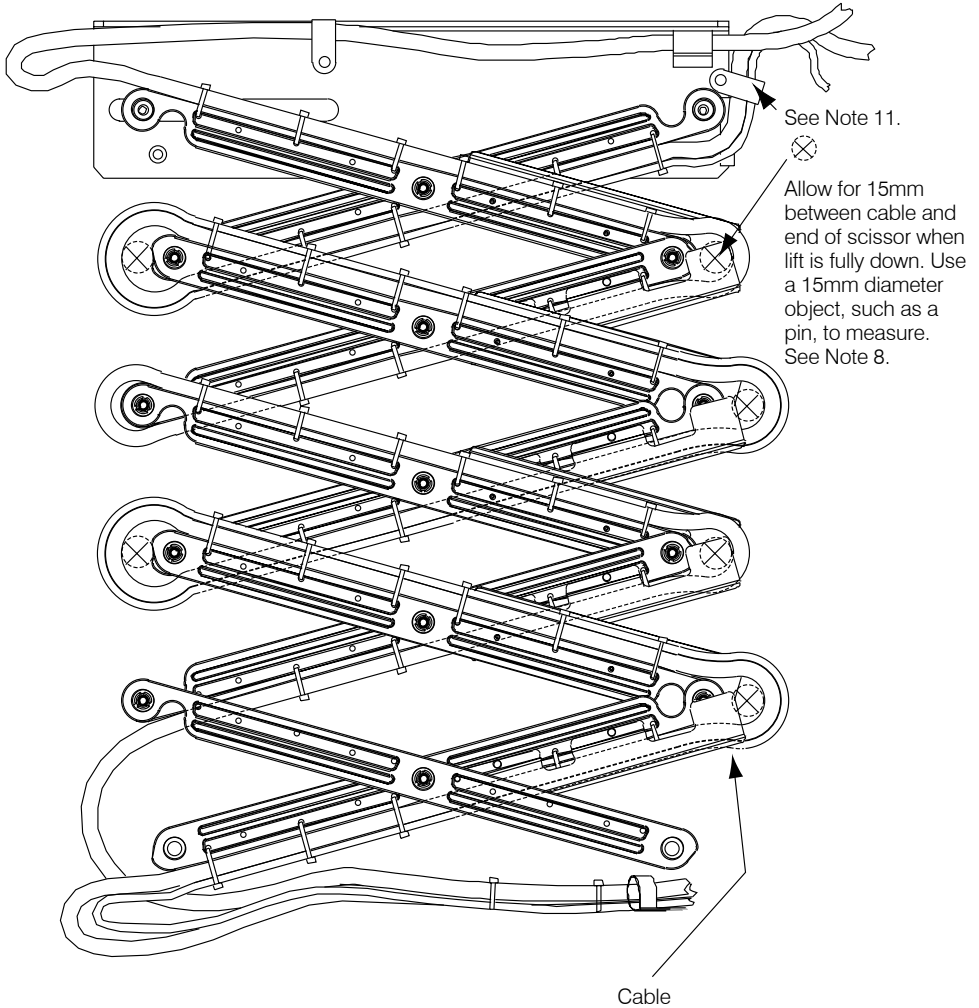
One year from date of purchase.

Cable attachment instructions



CAUTION:

Improper installation can cause damage to the Resi-Lift during raising and lowering of the unit.



1. Operate the Resi-Lift into the fully lowered position.
2. Disconnect power to the Resi-Lift.
3. Attach cables to the **rear scissor mechanism only**.
4. **Use flexible cables.** Plenum rated cables are typically too stiff and should not be used.
5. Determine the total required length of cables. 3.05m of cable is required to reach from the opening of the lower pan to the opening of the top pan. In addition, remember to add (A) enough cable to reach from the opening of the lower pan to the projector, and (B) to connect the Resi-Lift to incoming cable at the top of the unit.

$$A + 3.05m + B = \text{Total Cable Length}$$

6. Use cable ties to attach the cables to the pre-drilled rear scissor links.
7. Begin wrapping the cable from the projector up with the cables connected to the projector to ensure sufficient cable length coming from the opening of the lower pan.
8. Due to the variation in physical size and number of cables required for any given application, LP Morgan recommends a limit of **four cables** (in addition to the pre-wired power cord [220V lifts do not come with with pre-wired power cord]).

PLEASE NOTE: The cable installer is responsible for ensuring the cables do not interfere with the scissor mechanism as the unit raises and lowers.

9. Be sure to allow 15mm clearance between the end of the links and the cable loops where shown. This will allow the cable room to flex as the unit is raised and lowered.
10. After all cables are attached, clip extended ends of wire ties and adjust cables so they do not interfere with the rear scissor mechanism.
11. Cables that run to the top right of the rear scissor mechanism should be run through the 20mm cable clamp (provided).

CAUTION: Tie up cables so they are kept out of the scissor mechanism as it is raised and lowered.

12. Note that cables attached to links that slide will move back and forth, and should have the necessary degree of freedom to move with the link.
13. Cable clamps have been provided at the opening of the lower pan and at the top of the upper pan for securing cables.
14. Make sure cables exit through oval hole in side of top pan so that cables are not pinched by upper and lower pan.

**For more information on our range of products,
please visit www.lpmorgan.com.au, or contact
your local LP Morgan Retailer.**

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