

LVL UP Wire Rope Suspension Kit

Installation Guide

Tools & Materials Required

- Measuring tape
- Pencil/marker
- Spirit level (recommended)
- Drill + suitable drill bits
- Screwdriver
- Step ladder
- Safety glasses (recommended)
- Wire cutters

In the Box

- Wall plug
- Mounting stud / ceiling mount
- Screws
- Cables with threaded fitting
- Suspension attachment

Important Information

General Note

This wire rope suspension kit is used to hang hexagon LED lights from a ceiling or overhead structure. It allows the lights to sit below the ceiling at an adjustable height while keeping the installation clean, level, and professional.

The suspension wires support the physical weight of the light frame. Power cables must never be used to support or hang the lights.

Liability Notice

This suspension kit is designed for suspending hexagon LED lighting systems only. It is not designed to support tools, signage, shelving, decorations, or any other heavy objects. Incorrect installation may cause damage, injury, or electrical hazards. Always install into a suitable structural surface and seek professional help if unsure.

Installation is performed at the customer's own risk. You are responsible for ensuring your mounting method and electrical supply are safe and compliant. If unsure, use a licensed electrician.

Please note that it is illegal to perform fixed electrical work without a license in Australia. Do not attempt to hardwire this product by yourself as you risk fires, electrocution, serious injury, and fines.

General Safety

- Turn off your power supply before installing, adjusting, or connecting the light system
- Install only into a solid ceiling structure such as timber, concrete, steel, or correctly rated anchors. Do not rely on plasterboard alone unless using suitable rated fixings designed for suspended loads
- Do not allow electrical leads, plug cables, or LED connectors to carry the weight of the frame
- Use a qualified electrician for mains electrical connection where required
- Indoor use only unless the lights and electrical components are specifically rated for the environment.

Step 1: Measure & Plan Your Layout

Assemble the Lights per our Hexagon Light Installation Instructions. Check the final shape, size, and position before drilling into the ceiling. Measure the full width and length of the frame, then mark the center point. Confirm the lights will not interfere with garage doors, roller doors, shelves, hoists, vehicles, or other ceiling equipment.

Step 2: Choose Suspension Points

Choose where each wire rope will attach to the hexagon light frame. Suspension points should be spread evenly across the layout. Use points around the outside edges and through the center on larger designs to prevent sagging.

Do not attach wire ropes to weak plastic covers, loose LED tubes, or electrical cables. Attach only to strong frame sections or connector points.

Step 3: Mark the Ceiling

Transfer the suspension point locations from the light layout to the ceiling. Use a tape measure, pencil, and level or laser level to make sure the ceiling marks are straight and evenly spaced. Before drilling, check for hidden electrical cables, water pipes, air-conditioning ducts, beams, and garage door tracks.

Step 4: Drill Mounting Holes

Drill a pilot hole at each marked ceiling point.

- If fixing into concrete or masonry, insert the supplied wall plug into the drilled hole.
 - If fixing into timber, the mounting screw may be fixed directly into the timber beam or ceiling batten.
 - If fixing into plasterboard, use only properly rated plasterboard or toggle anchors.
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Step 5: Install Ceiling Mount

Place the ceiling mount or mounting stud over the drilled hole. Insert the screw through the

ceiling mount and tighten it securely into the wall plug, timber, or rated anchor. Once fitted, gently pull down on the ceiling mount to confirm it is secure. Repeat this process for every suspension point.

Step 6: Attach Wire Rope

Connect the long cable with threaded fitting to the installed ceiling mount. Depending on the kit style, the cable may screw into the mounting stud or pass through the cable gripper. Make sure the threaded fitting is fully tightened by hand. The wire rope should hang straight down from the ceiling without twisting or kinking.

Step 7: Attach Lower Suspension Fitting

Connect the lower suspension attachment to the hexagon LED light frame. The lower fitting may clip, hook, loop, or screw onto the frame depending on the light design. Make sure the attachment is fully secured before releasing weight onto the wire rope. For larger frames, have one person support the frame while another person connects the suspension fittings.

Step 8: Adjust Height

Once all wire ropes are attached, slowly adjust the height of each cable until the hexagon light frame sits level. Adjust each cable gradually. Do not fully tighten one side while the other side is hanging loose. Use a spirit level or laser level to check that the frame is even from front to back and side to side.

Step 9: Secure the Final Position

Recheck all your fittings. Confirm the ceiling mounts are tight, screws are secure, wall plugs or anchors are holding firmly, wire ropes are locked in place, lower suspension attachments are properly connected, and the light frame is level. If there is excess wire rope, it can be trimmed if required but leave a small amount for future height adjustment.

Step 10: Connect the Lights

Once the frame is safely suspended, connect the hexagon LED light system. Do not connect power until the frame is fully supported and secure. Ensure all LED tube connectors are pushed in firmly and correctly aligned. Final mains connection should be completed by a qualified electrician where required.

Final Safety Checklist

- ☐ Every ceiling fixing is secure
- ☐ Every wire rope is straight and tensioned
- ☐ The frame does not sag
- ☐ The lights are level
- ☐ No cables are pinched or stretched
- ☐ No connectors are loose
- ☐ Lights are clear of garage doors, vehicles, and moving equipment
- ☐ Lights turn on correctly with no flickering, buzzing, or movement

Other Information

Troubleshooting

If the frame is not level

- adjust each wire rope individually until the frame sits evenly

If one section is sagging

- Add extra suspension points in that area or move the existing suspension point closer to the sagging section

If the mount feels loose

- Do not use the light until the fixing has been replaced or installed into a stronger structure

If the wire rope is slipping

- Check that the cable is inserted correctly and the locking mechanism is fully engaged

If the lights do not turn on

- Turn power off and check all connectors. If the problem continues, contact a qualified electrician

Care & Maintenance

Inspect the suspension kit every few months. Check that the ceiling mounts remain tight, wire ropes are not frayed or damaged, and lower suspension fittings are still securely attached to the frame. Clean the lights using a dry or slightly damp cloth only. Do not spray water or chemicals directly onto LED tubes or connectors.