

Installation Guide Illuminated Mirror

by  Clearlight Designs®

Verge mirror is used as example in this installation guide



Installation Instructions

Failure to follow installation instructions could result in serious injury or damage to property.

Failure to follow installation instructions will void warranty.

Please read these instructions carefully before installation to make sure you have all you need, and to understand what you will be doing during all phases of the handling, installation, removal, operation and maintenance of this product. Failure to comply with these precautions violates safety standards of design, manufacture and intended use of the product.

Clearlight Designs assumes no liability for customer's failure to comply with these requirements.

Clearlight Designs takes no responsibility for mishandling, that results in damage caused to the mirror and its components or to personal property

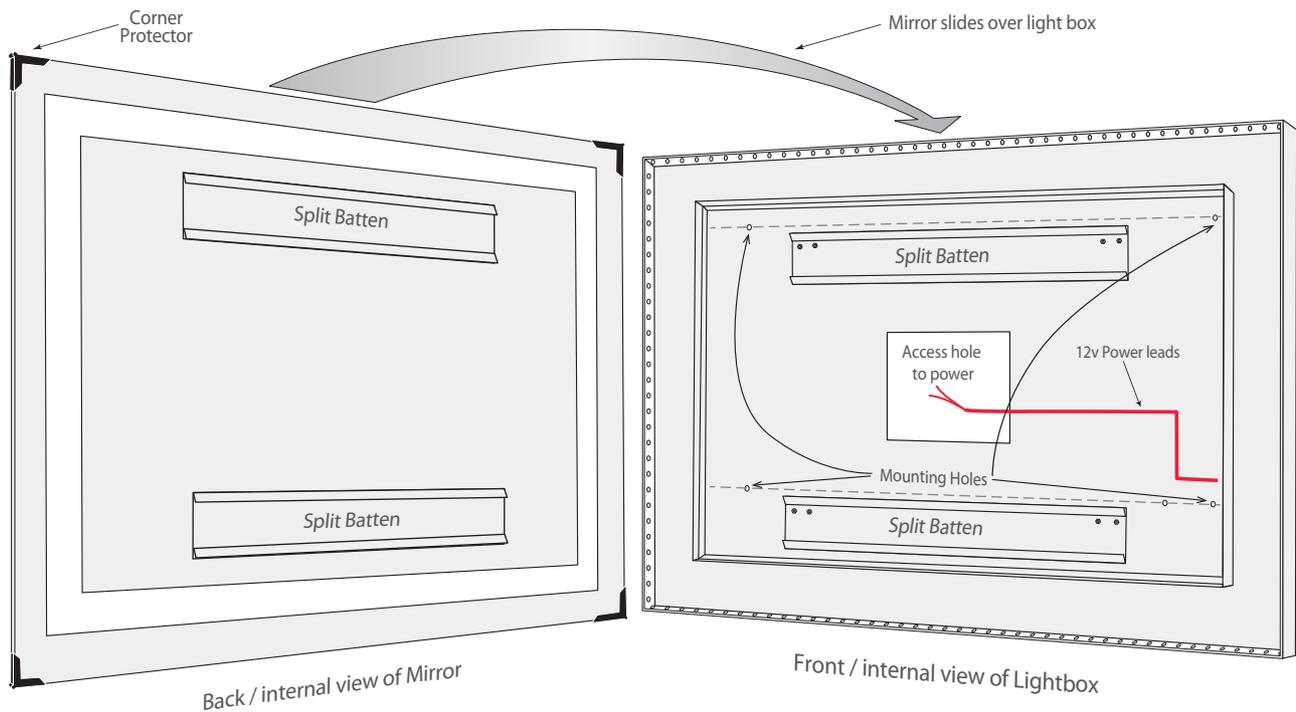
IMPORTANT: Installation must only be carried out by a licenced electrician or builder according to local authority regulations.

Do not remove protective film or plastic corners until your mirror is installed

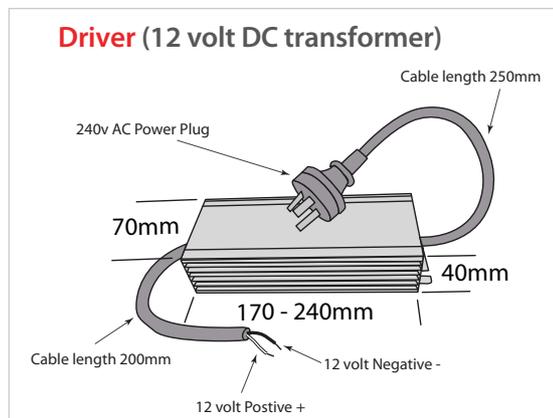
Move mirrors SLOWLY. Plan what you are doing.

Handling Tips

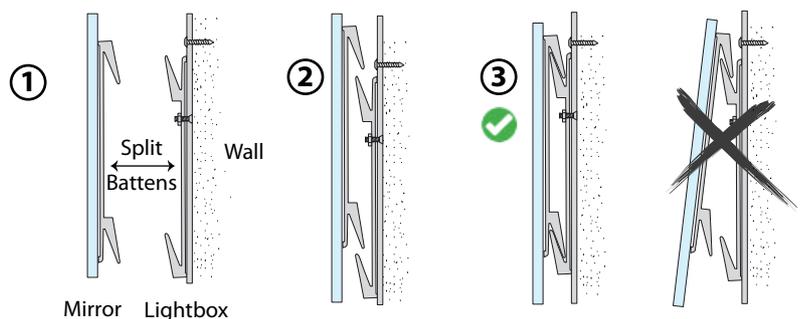
- Always place the mirror on a soft surface e.g. carpet or folded towels. The edge of the mirror may chip if placed on a stone or hard surface.
- Do not touch the frosted glass strips on the back of the mirror. You may end up with the extra task of cleaning off your fingerprints.
- Mirrors are heavy and fragile. Always lift with two people to share the load. Move slowly and carefully, plan and discuss what you are going to do.
- **Do not remove protective plastic film or corner protectors until the mirror is fully installed.**



Driver (12 volt DC transformer)



Side view Split Battens (How they work)



STEP 1 - Before fitting the lightbox to the wall or wiring for power connection:

You will need to know the location of:

- the wall studs
- water pipes
- electrical cables

Consult your plans and have a licenced electrician install electrical requirements for your mirror in accordance with this installation guide.

STEP 2 - Electrical installation

A **light switch to operate the mirror** needs to be installed, by a licenced electrician, on the wall, or other convenient location. If a de-mister is fitted to your mirror a separate switch is recommended. Each **switch connects to a power outlet, where the driver/s is to be located**, this can be in the wall cavity behind the mirror, or in the ceiling, or vanity cupboard etc.

The driver/s can then be plugged into the power outlet. The low voltage cables from the driver will run inside the wall to protrude from a hole in the wall at the approximate centre of the mirror lightbox, ready for connection to the LEDs (and de-mister if applicable).

STEP 3 - Fitting the lightbox to the wall:

The lightbox will be installed using a minimum of four 8 gauge x 40mm button head screws or other engineering approved fasteners.

Mark out on the wall for screw holes:

- Draw a pencil line on the wall, at the intended height of the top of the mirror, and mark the corners of the mirror.
- Draw a line 15mm below mirror line - this is top of lightbox (The mirror sits 15mm clear of the lightbox on all 4 sides.)
- Mark the location of the lightbox top corners - 15mm in from the mirror corners
- Make sure the lightbox is the right way up and **place it against the wall**, and mark drilling points **through the mounting holes**
- Place the lightbox aside and drill holes
 - If the wall is tiled**, drill tiles with 8mm drill and insert wall plugs, or expanding wall anchors
 - If the wall plasterboard** - install approved weight barring expanding wall anchors or similar.
- Screw lightbox to the wall.

STEP 4 - Connecting the LED lights to power

Connect LED lights to power:

- With the lightbox in place you are ready to connect the LEDs, using cable joiners. Join the positive and negative cables from the LEDs to the positive and negative cables of the driver. You can now test the light switch.

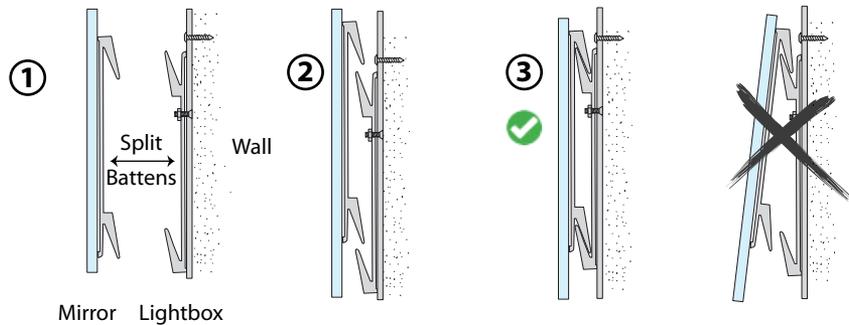
Connect de-mister to power. If the mirror has no de-mister go to the next section - "Hanging the mirror on the lightbox".

- If the mirror is fitted with a de-mister -- Make sure the mirror glass is the right way up.
- Wear clean rubber gloves for better grip and prevent any fingerprints on the frosted glass strips. Lift the mirror into place in front of the chassis. Leave enough room between the lightbox and the mirror to allow you to connect the cables Rest it on the vanity or other supporting structure - make sure you have some padding or folded towels to rest it on so it doesn't come into contact with a hard surface. Have someone hold it steady in position.
- **Using cable joiners supplied connect the 12v DC positive and negative wires from Demista's driver to the corresponding wires from the Demista pad on the mirror.**
- **Make sure the cables are clear of the split battens so they won't get caught up when the split battens engage. This can be done by feeding the cables back into the wall cavity, or tape the cables off to the side of the lightbox.**

STEP 5 - Hanging the mirror on the lightbox

- a Carefully lift the mirror into position, centred directly in front of the lightbox,
- b Position the bottom edge of the mirror 5mm higher than the bottom of the lightbox and centred. This lines up the split battens, so that they are ready to engage.
- c Now apply light pressure to push the mirror against the lightbox.
- d In this position the split battens inside the mirror will be ready to engage as the mirror slides down. First, check that the mirror is flat against the lightbox and level and centred.

Side view Split Battens (how they work)



- e Slide the mirror down against the Teflon coated front of the lightbox. Don't let go of the mirror until you are certain it is flat against the lightbox. This final movement engages the split battens. Check sides to make sure mirror is centred. If the mirror is not centred, lift mirror slightly so it can slide left or right until centred.
- f Press down firmly on the top of the mirror so the split battens grip each other.

STEP 6 - Removing the protection

- When the mirror is securely in place. Remove corner protectors and carefully peel the protective plastic coating from the front of the mirror glass, starting at the top and slowly peel down.

Cleaning

When cleaning a mirror simply wipe the surface with a few drops of methylated spirits or Isopropyl Alcohol on a clean slightly damp cotton cloth. We have found the Isopropyl Alcohol is the best for cleaning mirrors.

Do not use cleaners containing Ammonia, this will void warranty

Some paper towels may leave a smear.