

Installation Guide Verge & other Lightbox Illuminated Mirrors

by

① Clearlight Designs®



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.

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

All electrical works must only be undertaken after disconnection of power by removing fuses or turning off circuit breaker, to ensure all pole isolation of the electrical supply.

Do not remove protective film or plastic corners until 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 will almost certainly chip if placed on a stone or tiles or hard surface.
- Mirrors are heavy and fragile. Always lift the larger mirrors with two people to share the load.

Before fitting the mounting structure 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 licensed electrician install electrical requirements for your mirror in accordance with this installation guide.

Electrical installation

A light switch to operate the mirror should be installed on the wall or other convenient location, by a licensed electrician.

If a demister is fitted to the mirror you will need two cables through the wall. The Demister and LEDs can be operated by the same switch or separate switches.

The Drivers for both the LEDs and Demister are best place remotely - i.e. in ceiling or vanity cupboard. This is because of the difficulty in

safely removing the large heavy mirrors to swap out the driver if it fails. In this case the cable through the wall would carry 24v DC or 12v DC.

Installing the driver/s inside the lightbox.

The drivers are supplied with double-sided adhesive tape so that they can be adhered to the wall itself, within the cutout in the lightbox and connected to mains power.

STEP 1 - Fitting the mounting structure to the wall:

The mounting structure is to be installed using appropriate wall plugs or expanding wall anchors.

If the mounting structure lines up with a wall stud even better, just drill another hole/s in the White MDF and screw through into the wall stud.

Do not drill through the split battens as this may result in bending them out of alignment when screwed to the wall.

Large mirrors (around 2 square metres) will have additional holes in the mounting structure for extra load bearing screws.

As a guide, the mirrors weigh approximately 20kg per square metre.

Start by plotting the planned position of the mirror on the wall:

- Mark the top centre and top corners of where the mirror will be on the wall.
- Mark out the position of the hole for the first mounting screw (#1) - 120mm down from the top centre point.
- Drill the first hole in the wall at that position
- Fit wall plug or expanding wall anchor. Then screw the mounting structure to the wall through screw hole #1.
- Adjust to level by pivoting on the screw.
- When level, using the mounting structure as a template, mark out or drill pilot holes into the wall through the holes in the

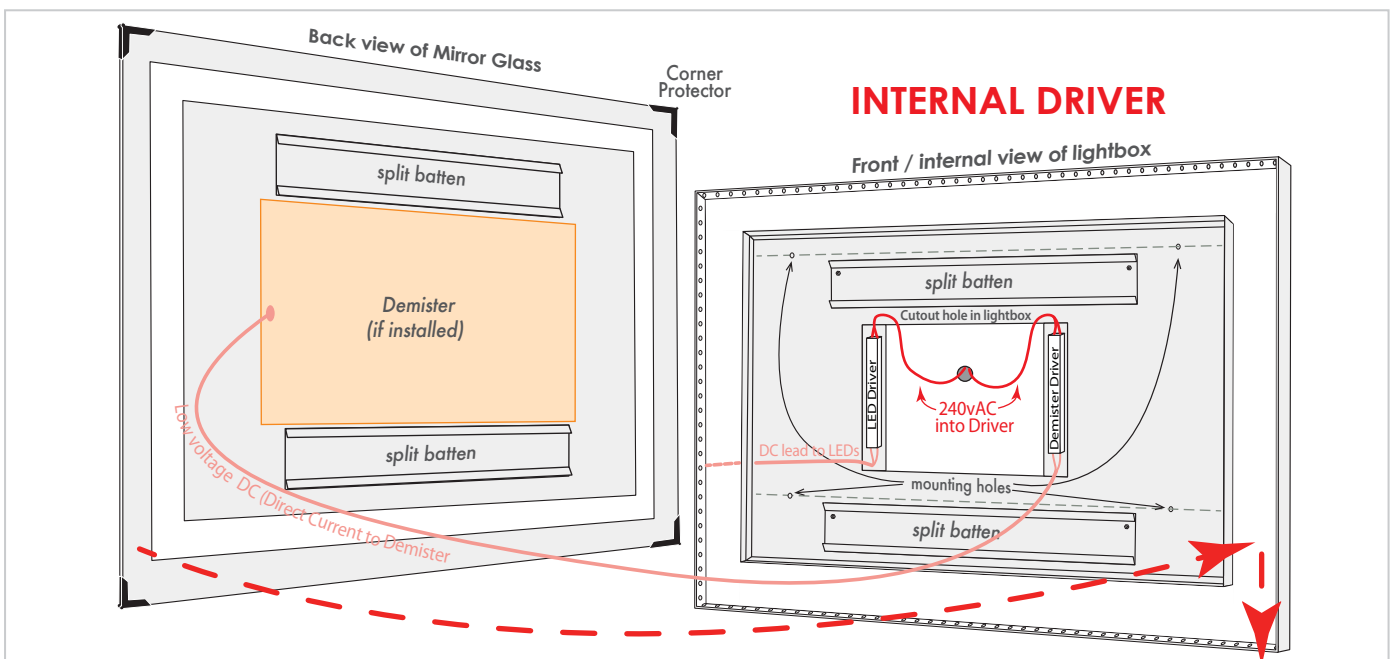
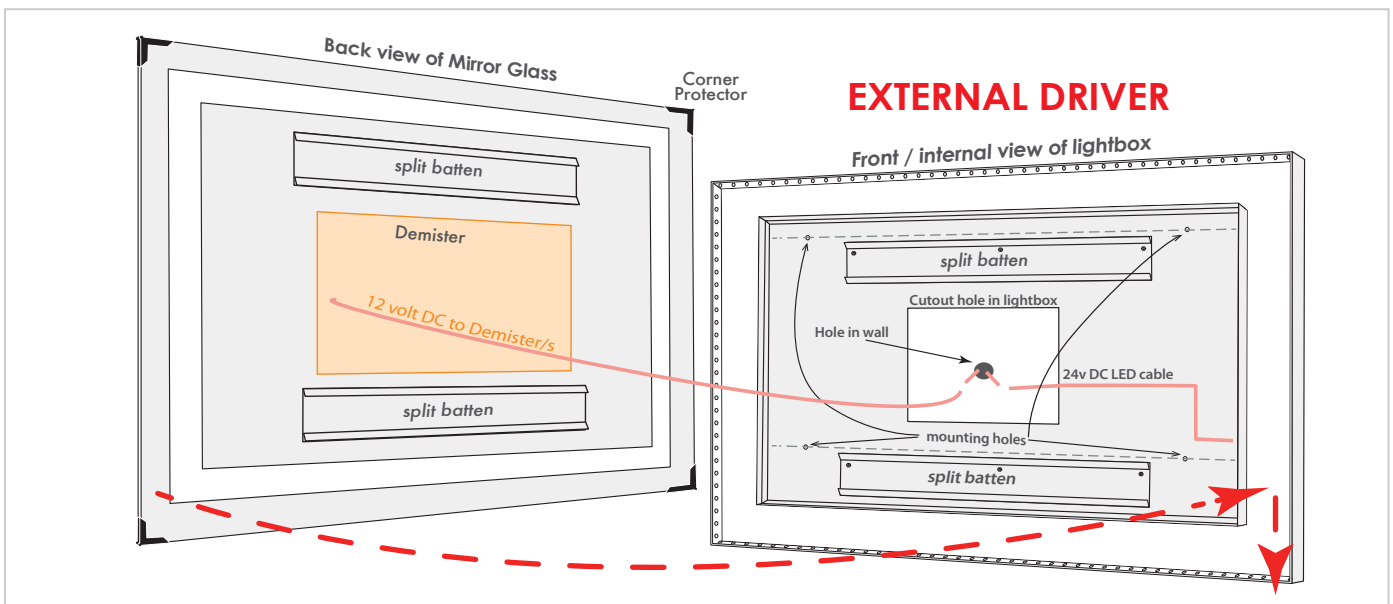
STEP 1 - Fitting the lightbox to the wall:

As a guide, the mirrors including the lightbox weigh approximately 20kg to 25kg per square metre.

Screw the mounting structure to the wall, join the Low Voltage cables, connected to the driver/s, to the cable from the LEDs and demister if applicable

To determine the position of the lightbox, Start by plotting the planned position of the mirror on the wall:

- Draw a pencil line on the wall, at the intended height of the top of the mirror, and mark the location of the top corners.
- Draw a line 15mm below that line - this line 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 down from the top of the mirror and 15mm in from each side. of the mirror.
- Then mark the lightbox bottom corners 15mm up from the bottom of the mirror and 15mm in from each side.
- If there is no vanity cupboard in front of the lightbox use a table or similar. Place wooden blocks on the top of the vanity cupboard and stack them up until they reach the points indicating the bottom corners of the lightbox.
- Place the lightbox against the wall on the blocks, check for level, then mark drilling points through the mounting holes.
- Extra holes can be drilled along the drill lines if you want to intersect a wall stud.
- Place the lightbox aside and drill the holes in the wall, then fit appropriate wall plugs or expanding wall anchors.
- Screw lightbox to the wall.



STEP 2 - Connecting the mirror lights to power

Connect lights to power:

- Run the cable from the ceiling or vanity cupboard into the wall cavity, to protrude through the wall in the approximate centre of the lightbox.
- Connect the driver to mains power from the switch on the wall (switch not included)
- Attach the 24 volt cable from the LEDs to the the 24 volt cable from the driver and test by turning on switch.

Connect 12 DC volt Demister to power:

If the mirror has no demister go to [Step 3 - "Hanging the mirror on the lightbox"](#).

- Connect the demister driver to mains power from a wall switch (not included)
- Attach the 12 volt cable from the Demister to the the 12volt cable from the driver.
- Make sure the demister 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 higher on the lightbox.
- Lift the mirror into place in front of the lightbox on the vanity or other support - **make sure you have some folded towels or padding to rest it on**. Leave enough room between the lightbox and the mirror to allow you to reach in to connect the demister cables. Have someone hold it steady in position.

STEP 3 - Hanging the mirror on the lightbox

NOTE : When lifting the mirror be careful not to touch the frosted strips as this is likely to leave fingerprints you will have to clean.

- Carefully lift the mirror into position, centred directly in front of the lightbox,
- Position the bottom edge of the mirror about 5 to 10mm higher than the bottom of the lightbox and centred. This lines up the split battens so they are ready to engage.
- Now move the mirror flat against the lightbox ready to engage as the mirror slides down. First, check that the mirror is flat against the lightbox at top and bottom, and level, and centred.
- Slide the mirror down against the front of the lightbox. Don't let go of the mirror until you are certain it is flat against the lightbox and secure.
- This final movement engages the split battens. Check sides to make sure mirror is centred. If the mirror is not centred, lift mirror very slightly so it can slide left or right until centred.
- Press down firmly on the top of the mirror to so the split battens grip each other.

STEP 4 - 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.

Care and Cleaning

On the edge of every the mirror there is a thin line of silver that is exposed to the air. Silver will tarnish eventually and the tarnish may spread under the paint. The mirrors we use employ the latest and best paint technology to prevent this. In order to protect your mirror even more we apply an edge sealer.

Cleaning the edge of the mirror with commercial cleaners is unnecessary and may eventually damage that edge seal. To clean the mirror edge all you need is a quick wipe down with a soft cloth dampened with distilled water.

DO NOT USE CLEANERS ON THE EDGE OR BACK OF THE MIRROR. Even air born chemicals e.g. toilet flush chemicals, are known to tarnish mirror,

When cleaning a mirror simply wipe the glass 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, or bleach, this will void warranty