

# Installation Guide Equality Illuminated Mirror

by

 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.

**IMPORTANT!**

**Installation must only be carried out by a licensed 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 will almost certainly chip if placed on a stone or tiles 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.

## 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 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 de-mister is fitted to the mirror it can be operated by the same or different switch.

The switch connects a power outlet for the driver. The driver can be located in the vanity cupboard under the mirror for

easy access, or in the ceiling, or in the wall cavity behind the mirror, etc.

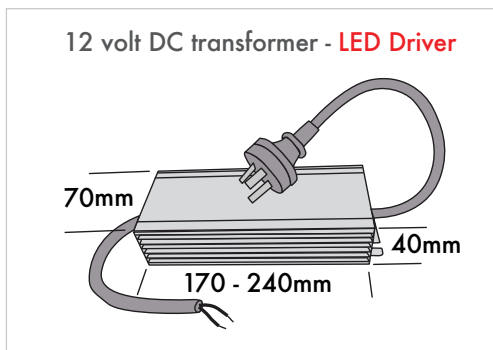
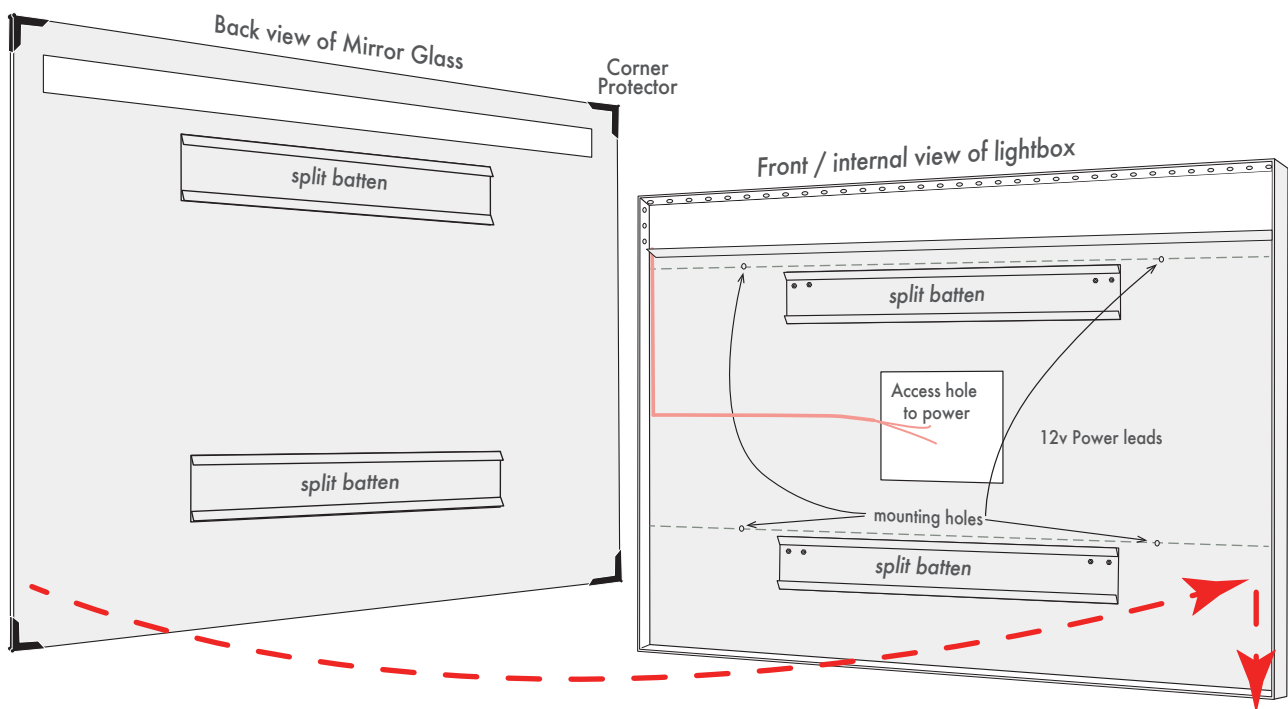
From the driver a low voltage cable will run inside the wall to protrude at the approximate centre of the mirror lightbox, ready for connection to the LEDs (and de-mister if applicable).

## STEP 1 - Fitting the lightbox to the wall:

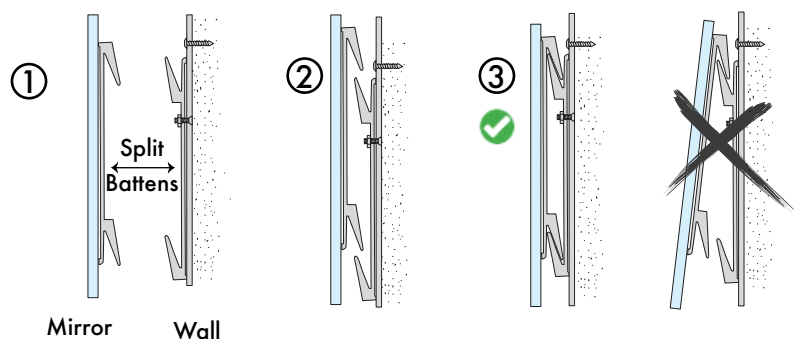
The lightbox will be installed using a minimum of four 8 gauge x 40mm button head screws or other engineering approved fasteners.

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 Ramset expanding wall anchors
  - If the wall plasterboard - install Ramset expanding wall anchors or similar.
- Screw lightbox to the wall.



### Internal side-view of how the Split battens install works



## STEP 2 - Connecting the mirror lights to power

Connect lights to power:

- With the lightbox in place you are ready to connect the lights with cable joiners. Join the positive and negative cables from the lights to the respective 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 Step 3 - "Hanging the mirror on the lightbox".
- If the mirror is fitted with a de-mister – first make sure the mirror glass is the right way up.
- Wear clean rubber gloves for better grip and to prevent any fingerprints on the frosted glass strips.
- Lift the mirror into place in front of the lightbox. Leave enough room between the lightbox and the mirror to allow you to connect the cables. Rest it on the vanity or other support - 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 the demister to the corresponding wires from the demister's driver.

## STEP 3 - Hanging the mirror on the lightbox

- 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.
- 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 apply light pressure to push the mirror against the lightbox.
- 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.
- 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.
- 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.
- 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 your 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  
Some paper towels may leave a smear.