

# 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.

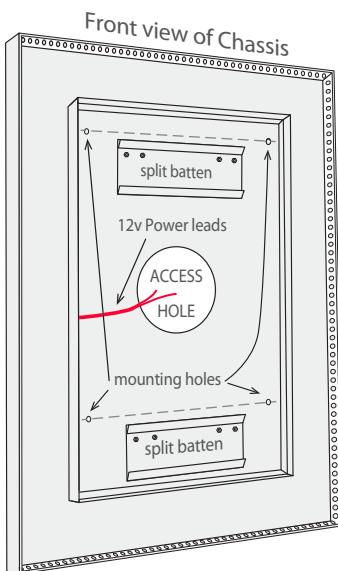
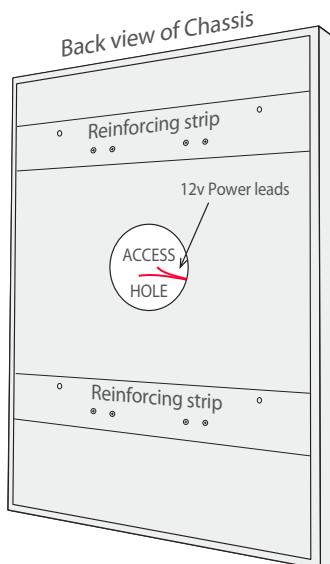
**Installation must only be carried out by a licenced electrician or builder according to local authority regulations.**

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.

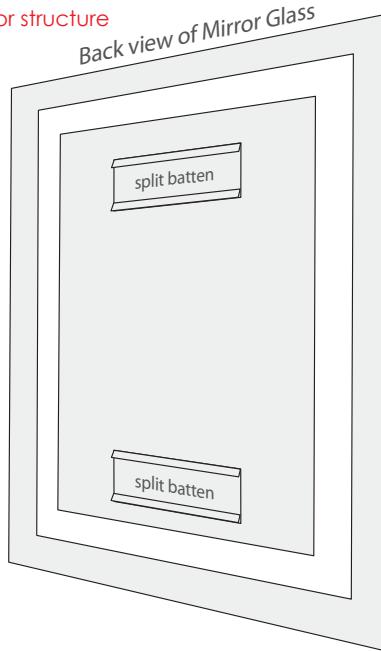
**IMPORTANT!**

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Chassis structure



Mirror structure



Verge mirror as example

The foundation of the chassis is the two reinforcing strips on the back. The split battens are bolted to these strips that are in turn screwed to the wall to support the weight of the mirror glass.

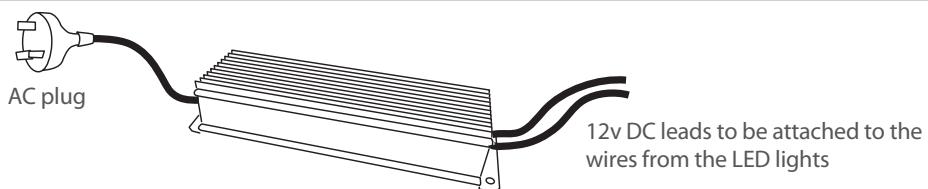
If mounting on tiles there is usually four holes , or six if the mirror is over 1.5 metres long. More holes may be needed if wall is plasterboard. In that case drill any extra holes along the dashed line above each split batten to ensure the ample support through the reinforcing strip.

**Note:** diagram only - your mirror and chassis may look a little different but it is essentially the same concept.

## Note

- 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, planning and discussing what you are going to do.
- Do not remove protective plastic film or corner protectors until mirror is fully installed.

Driver (12 volt DC transformer)



## Before fitting the chassis 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.

## Electrical installation

**A light switch to operate the mirror** needs to be installed, by a licenced electrician, on the wall, or other convenient location. The de-mister (if fitted to your mirror) can be wired to the same switch, but 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 12v DC cables from the driver will run inside the wall to protrude from a hole in the wall at the approximate centre of the mirror chassis, ready for connection to the lights (and de-mister if applicable).**

## Fitting the chassis to the wall:

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

### To mark out on the wall and chassis for screw holes:

- Make sure the chassis is the right way up and place it against the wall at the desired height and adjust to level.
- On the wall - mark location of top, and each corner of chassis and mark drilling points through the mounting holes
- Place the chassis aside.

If the wall is tiled, drill tiles with 8mm drill and insert wall plugs. Then screw chassis to wall

If the wall plasterboard - Mark the centre point of each stud along the line drawn across the wall between the top corners.

- On the chassis - mark the location of stud centres along the dashed pen line that is just above each of the split battens, **drill holes for the mounting screws**.

- Place chassis back on wall in position and drill a pilot hole through one of the holes into the wall stud. Then screw in the first screw just tight enough to pull the chassis in to the wall. Slightly rotate the chassis on that screw to adjust for level, then screw in the remaining screws.

*Note: if the wall is not perfectly flat, e.g. brick or slate wall, tightening the screws may effectively warp the chassis and pull the split batten closer to the wall in relation to the perimeter of the chassis. This would take the split battens out of alignment. If the wall is not flat, a washer or two on the mounting screws between the chassis and the wall will prevent warping and the chassis will sit flat*

## Connecting the mirror lights to power and hanging the mirror

### Connect lights to power:

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

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

- 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 chassis 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 a bit.

### Hanging the mirror on the chassis:

- Two people wearing rubber gloves, or using suction lifters carefully lift the mirror into position, centered directly in front of the chassis,
- Line up the split battens, so that they are ready to engage. To do this, position the bottom edge of the mirror 5mm higher than the bottom of the chassis
- now place the mirror against the chassis and apply light pressure, 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 chassis and level and centred
- slide the mirror down against the Teflon coated front of the chassis. Don't let go of the mirror until you are certain it is flat against the chassis This final movement engages the split battens and the mirror and overlap the chassis by 15mm on all 4 sides
- 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 using a slightly damp cotton cloth. Avoid cleaners containing Ammonia. Some paper towels may leave a smear.