



# Lamination and Controller Installation Guide





## Lamination Guide

Reusable (cling)

# Stage 1

## Laminating the cling film to the glass

### STEP 1

The cling film is applied to the window followed by the touchfoil™, which is attached to the back of the cling film

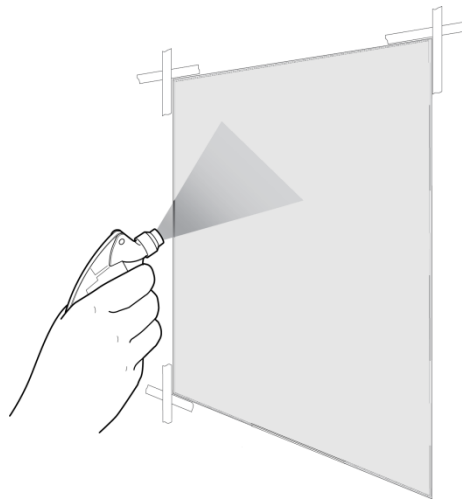
### STEP 2

Thoroughly clean the substrate making sure it is dust-free and free of any oils or grease. Use of a good glass cleaner is recommended prior to installation

### STEP 3

Mark on the opposite side of the window/glass the correct position for the cling film/touchfoil™

Apply a *light* mist of water (with a few drops of soap in) using a water sprayer to the area where the cling film will be applied

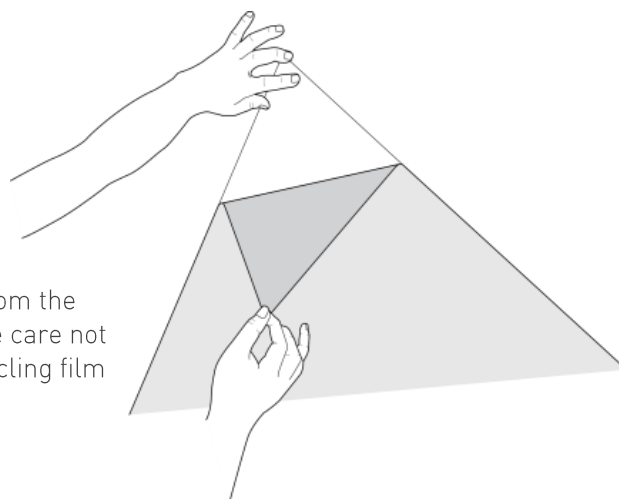


The touchfoil™ must be handled carefully to avoid creasing or tearing

Rippling may occur during delivery; this will disappear during the lamination process

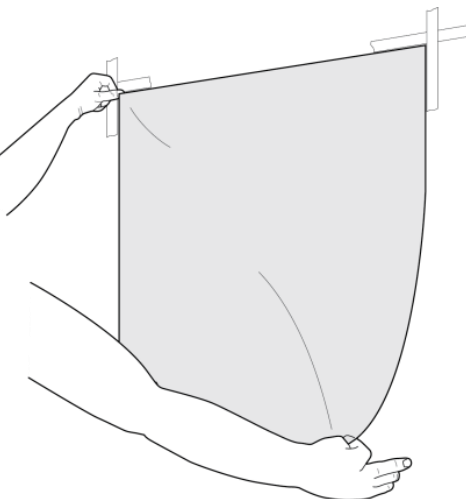
Always lay the touchfoil™ on a soft, scratch free surface, where possible

If you are applying a Holographic projection film, Sax3d HoPs film or Pronova HoloPro rear projection film onto the back of the touchfoil™ then you must substitute the water for thin oil

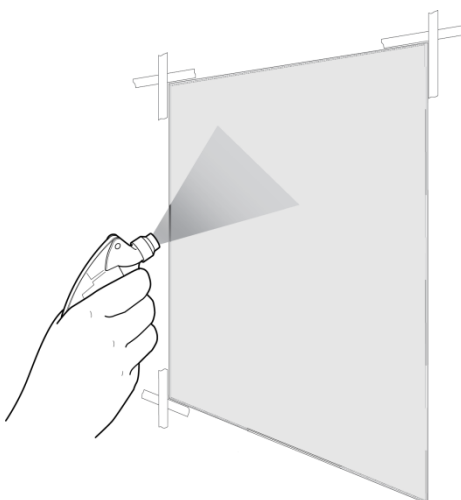


Remove the cling film from the white baking sheet. Take care not to stretch or crease the cling film

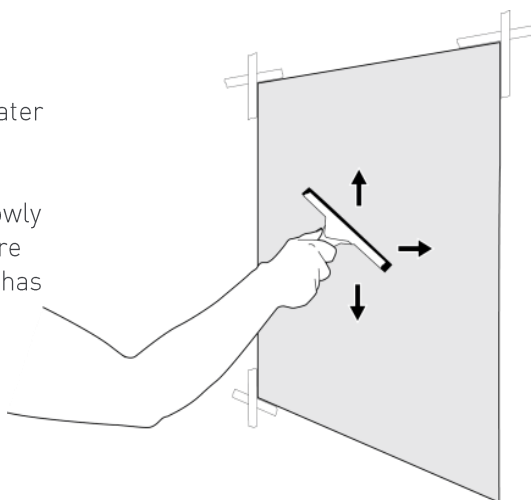
Place the top edge of the cling film in position and then slowly allow the cling film release onto the glass allowing the water to evenly spread.



Apply a **light** mist of water (with a few drops of soap in) onto the back surface of the cling film to stop the squeegee sticking as you laminate



Firmly squeegee the excess water out from under the cling film starting from the centre and moving towards the edges. Slowly increase the squeegee pressure after the majority of the water has been removed



If any large bubbles are trapped it may be necessary to lift the cling film off the surface and re-smooth it from that point rather than trying to force the bubble to the edge, as this may stretch or crease the cling film

Remember to not let the top surface of the cling film dry as you laminate as this may stretch or crease the cling film

## Stage 2

# Laminating the touchfoil™ to the cling film

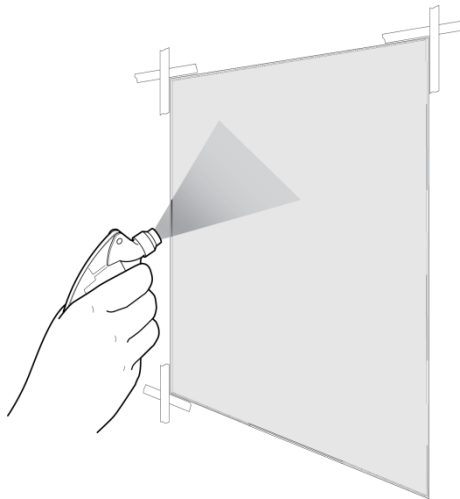
### STEP 1

The touchfoil™ can be mounted in any orientation, however the following installation instructions assume the electronics will be mounted at the bottom edge

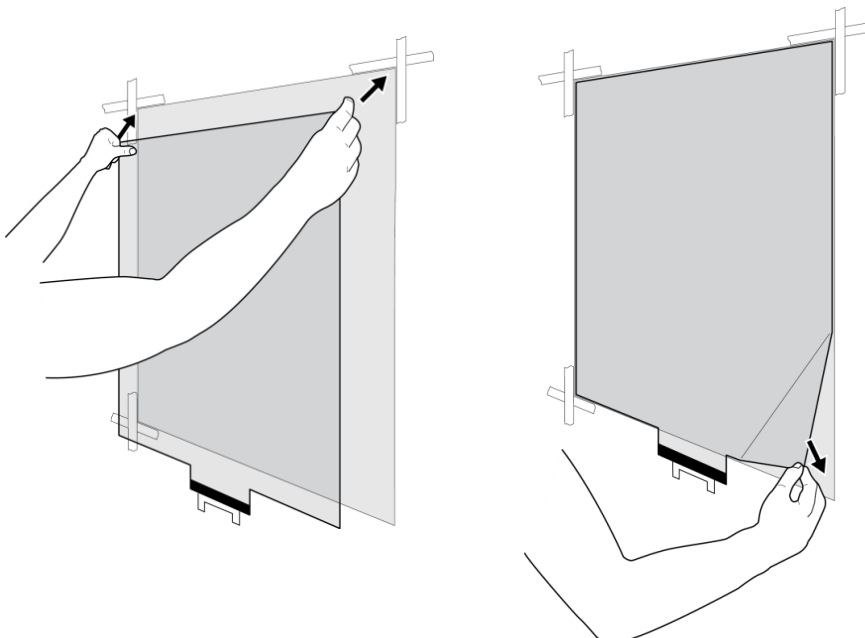
Carefully remove the touchfoil™ from the packing, keeping the packing roll if you intend to reuse the touchfoil™ at a later point. Un-roll the touchfoil™ and lay on a flat non abrasive surface

### STEP 2

Apply a **light** mist of water (with a few drops of soap in) using a sprayer to the back of the cling film



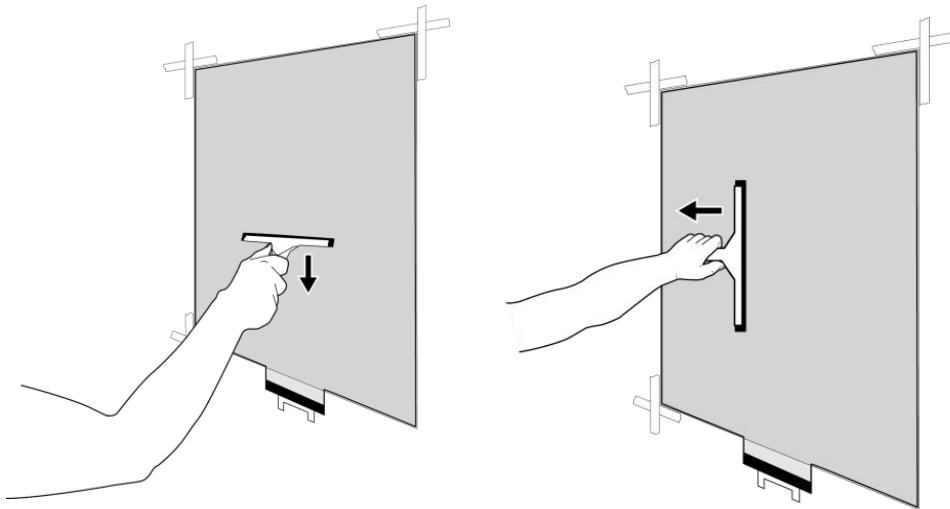
Carefully align the top edge of the touchfoil™ 2-3mm below the top edge of the cling film, and then **slowly** allow the touchfoil™ to release onto the cling film



### STEP 3

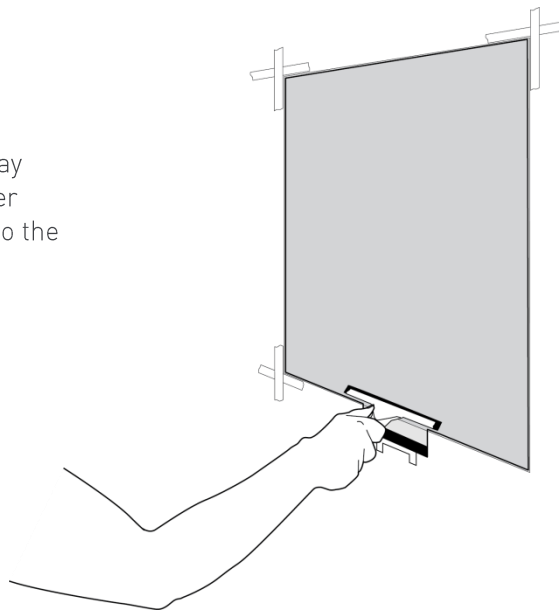
Using the squeegee, work from the centre towards the edges of the touchfoil™, carefully smooth out any air bubbles that occur during installation

Before final lamination, make a visual check that there is no visible dirt under the touchfoil™



Apply a firm even pressure when laminating

Stop the squeegee 20mm away from the top of the black cover strip to prevent any damage to the touchfoil™ contacts





## Lamination Guide

Permanent

Permanent (clean peel)

# Stage 1

## Laminating the touchfoil™ to the substrate

The Permanent and Permanent (clean peel) adhesive layer is part of the construction of the touchfoil™ and is exposed by removing a protective release layer

The lamination process is the same for both variants of the touchfoil™ apart from the amount of soap required in the water/soap mix:

10ml 500ml of water for Clean Peel touchfoil™

30ml 500ml of water for the Permanent touchfoil™

### STEP 1

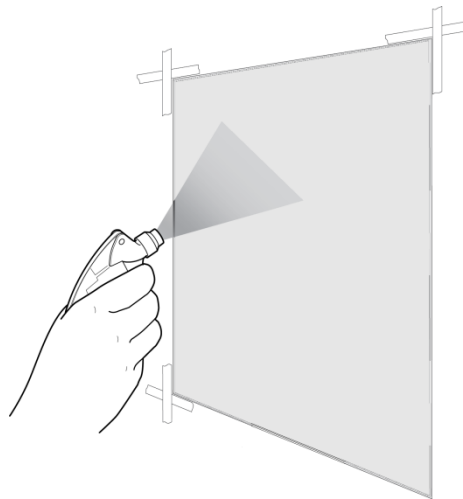
Decide on the correct position of the touchfoil™ before starting the lamination process

If required mark on the opposite side of the window the correct position for the touchfoil™

Thoroughly clean the substrate making sure it is, dust-free and free of any oils or grease

Use the water/soap mix and squeegee to clean the substrate just before lamination

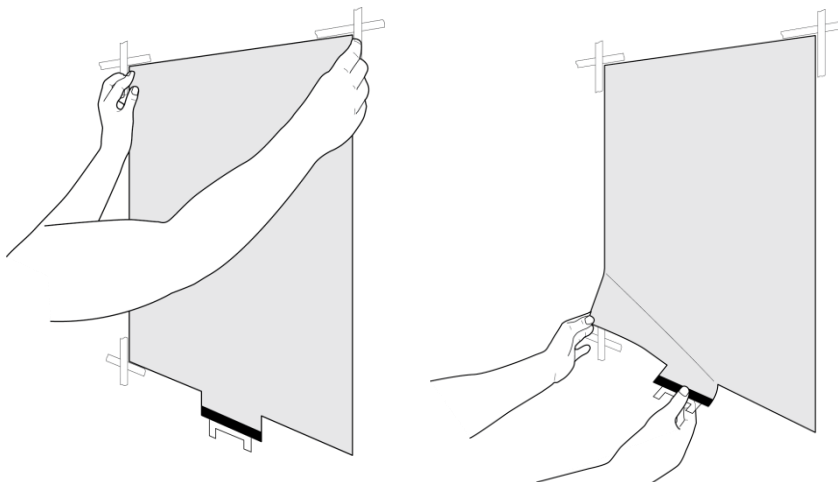
Apply a good covering of water/soap mix to the substrate using a water sprayer



Remove all dirt and other contaminants as far as possible to ensure a clean lamination to the surface

### STEP 2

To remove the release layer, first apply the **non adhesive** side of the touchfoil™ to a window or other suitable surface by first spraying the window/wall with water so the touchfoil™ is held against the surface

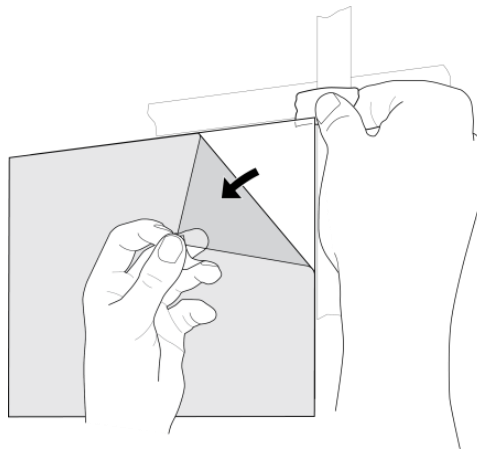




Release a small corner of the protective release layer from the touchfoil™ using sticky tape at the back and front corner of the touchfoil™

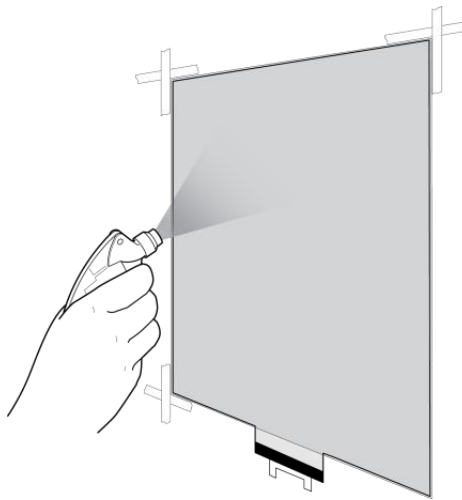
Remove the release layer by pulling down slowly and at the same time spray the adhesive surface with the water/soap mix

It is important to pull back the release layer close to the touchfoil™ and make sure it does not lift off the substrate

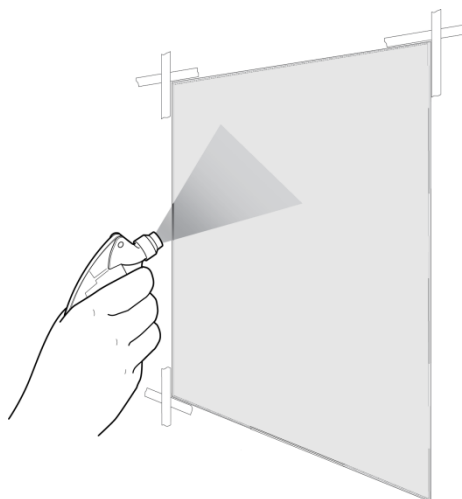


Two people are required at this step to prevent the touchfoil™ lifting away from the substrate as you release the adhesive protective layer

Once the protective release layer has been completely removed, spray the adhesive surface once more making sure you have even coating of the water/soap mix



Apply an even coating of the soap/water mix to the substrate you are applying the touchfoil™ to

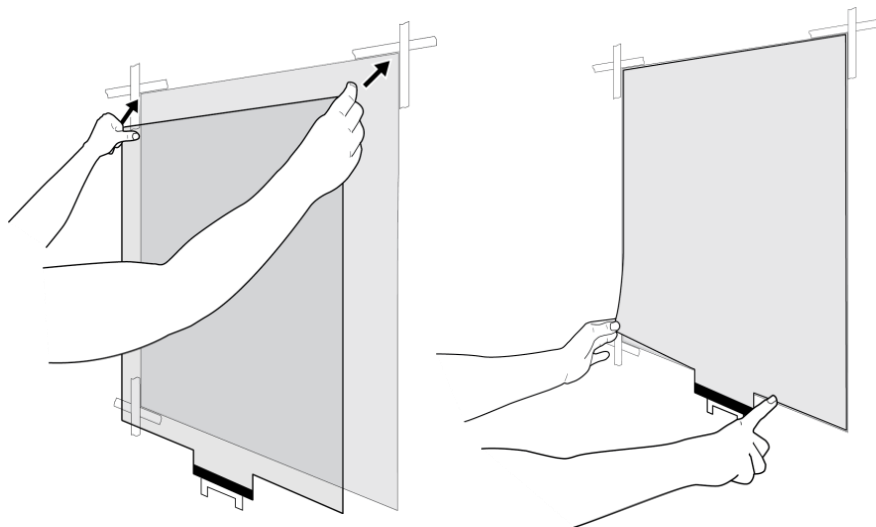


### STEP 3

Before removing and turning, wet your fingers with the soap/water mix to avoid sticking to the adhesive surface

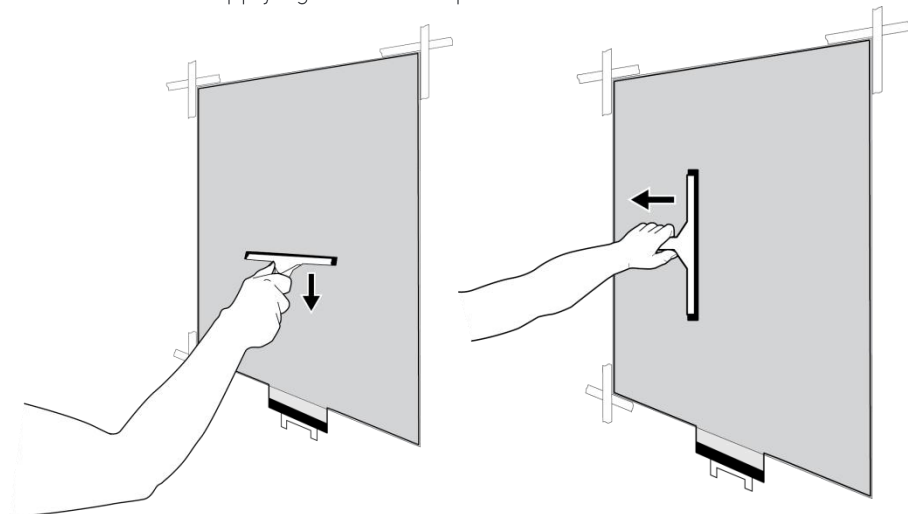
Two people are required to remove and turn the touchfoil™

Remove the touchfoil™ and turn around so the adhesive side is now facing the substrate you are applying to. Offer up the touchfoil™ and slowly allow it to release onto the substrate



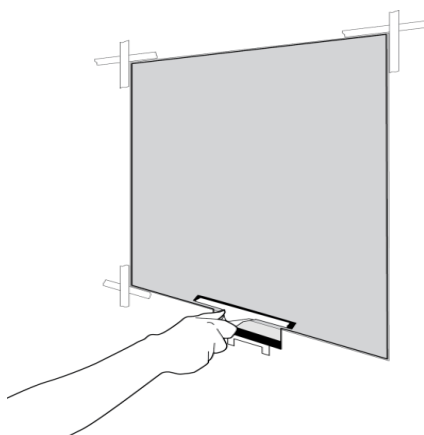
Remove excess water using a squeegee working from the centre to the edges of the touchfoil™ applying a firm even pressure

Before final lamination, make a visual check that there is no visible dirt under the touchfoil™



Spray the back of the touchfoil™ during with the soap mix to prevent the squeegee sticking during lamination

Stop the squeegee 20mm away from the top of the black cover strip to prevent any damage to the touchfoil™ contacts



# Controller Installation Guide



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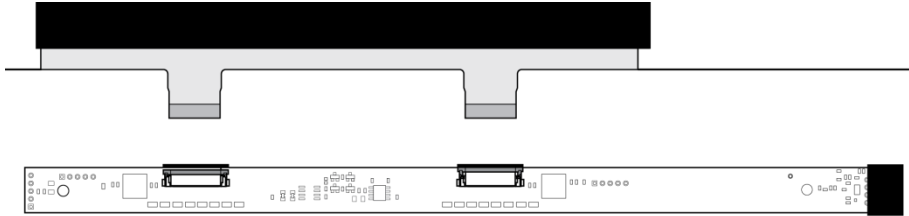
## STEP 1

### Connecting controller to the touchfoil™

These instructions apply for both the single and multi-touch controllers

#### touchfoil™ controller

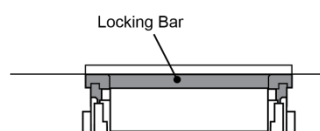
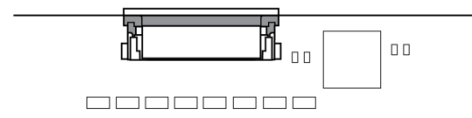
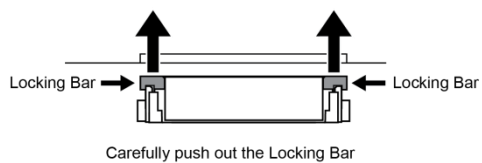
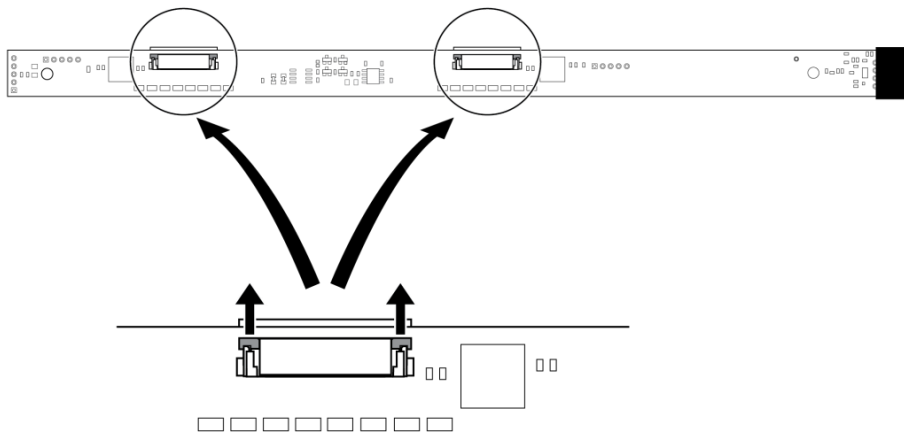
The gold contacts must be inserted in to the controller board in the correct orientation for the touchfoil™ to function



## STEP 2

### Unlocking the connectors

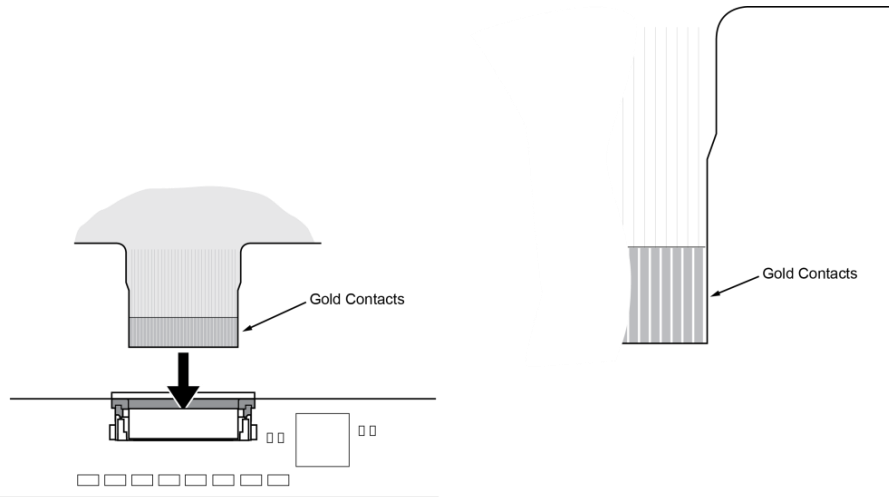
Carefully lift the locking bars on both connectors on the controller



### STEP 3

#### Inserting the touchfoil™ gold contacts into the controller connectors

Gently insert the touchfoil™ gold contacts (in the correct orientation) into the unlocked connectors on the controller



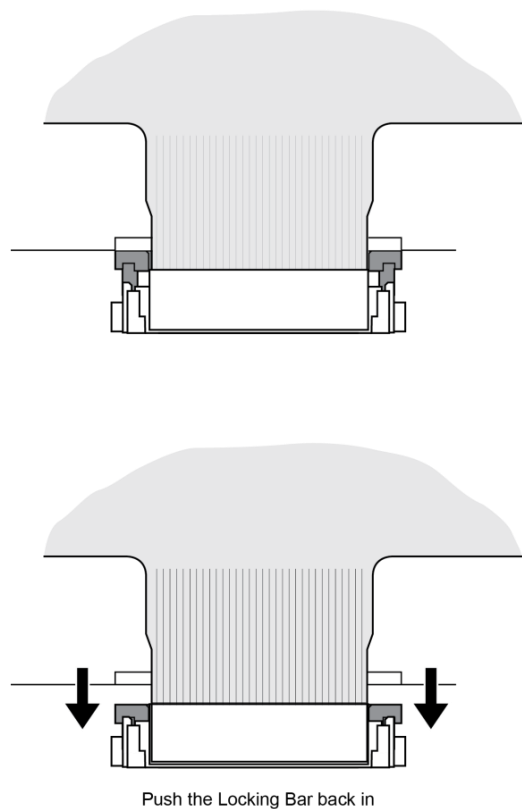
The touchfoil™ gold contacts and the component side of the controller must be facing in the same direction otherwise the touchfoil™ will not respond

The gold contacts on the touchfoil™ **must** be clean and dry before inserting into the connectors into the controller

### STEP 4

#### Locking the controller connectors

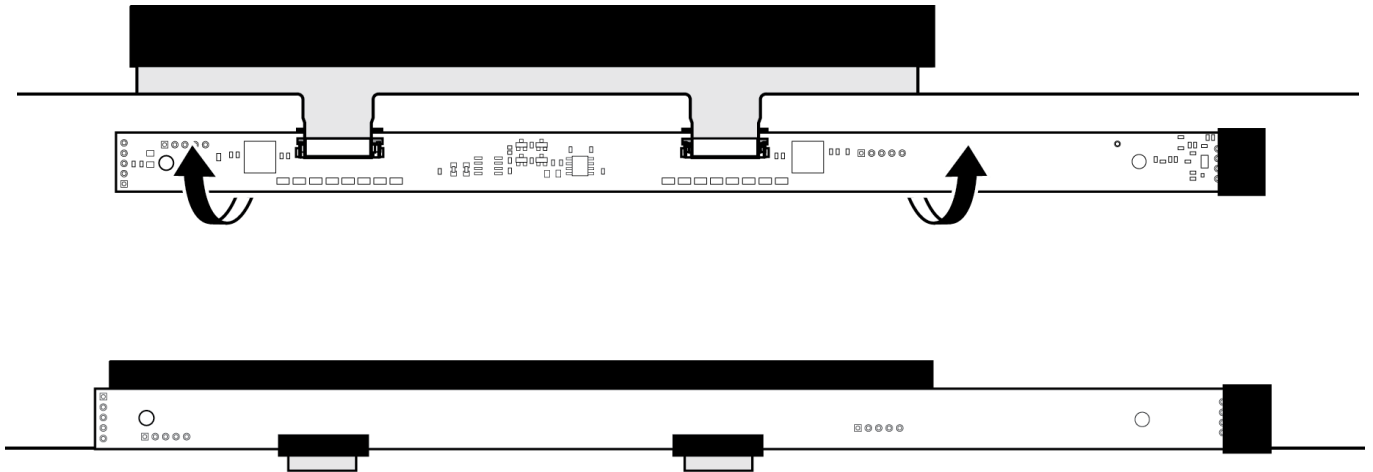
Push down the locking bar until it becomes locked securely on the gold contacts



## STEP 5

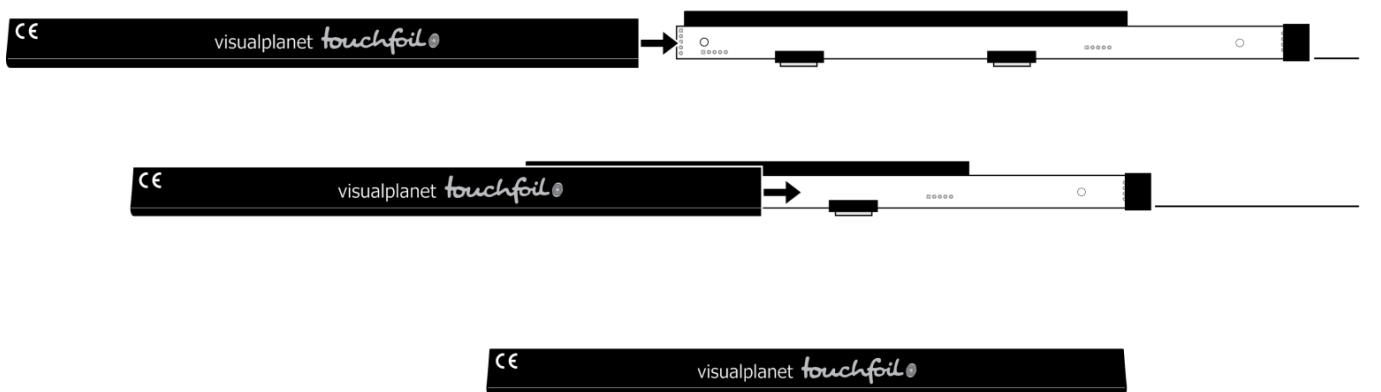
### Fixing the controller cover

Once the electronics are connected to the touchfoil™, fold the board back up on itself towards the tail



## STEP 5

Open the leading edge of the cover to avoid catching on the controller and flexible circuit assembly, and then carefully slide the cover over the controller



With the controller and flexible circuit assembly safely covered, all the electronic components will now be protected from damage

## INSTALLATION TIPS

When installing the touchfoil™ with an LCD display an air gap is required between the back of the touchfoil™ and the LCD display. The distance of the air gap is dependent on the size of the LCD display. For example for a 40" touchfoil™ requires a 4-6mm gap and a 55" touchfoil™ requires a 6-10mm gap

The earth lead on the USB cable must be connected to a clean metal point on the LCD metal casing. This will reduce the interference that is caused by the LCD unit

Route the touchfoil™ USB cable away from all mains, VGA and power supply cables

Only move the sensitivity/press threshold levels in small increments if the touchfoil™ is either too sensitive or non-responsive to your touch

For additional information visit  
[www.visualplanet.biz/support](http://www.visualplanet.biz/support)

# Now enjoy the world of touch



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Manufacturers of The logo for 'visualplanet touchfoil' features the word 'visualplanet' in a small, sans-serif font above the word 'touchfoil' in a large, orange, handwritten-style font. A small orange circle with concentric lines is positioned to the right of 'touchfoil'.

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