



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 piece of glass followed by the touchfoil™, which will be attached to the back of the cling film

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

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

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

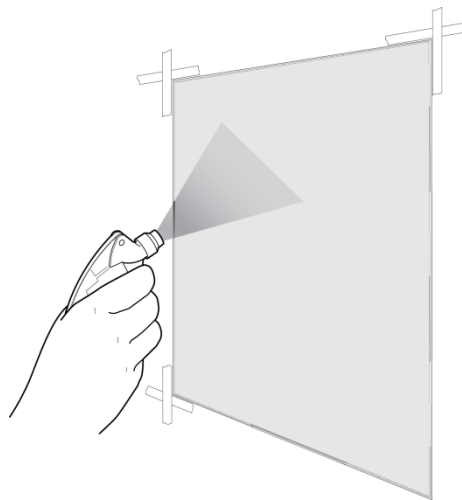
STEP 2

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

STEP 3

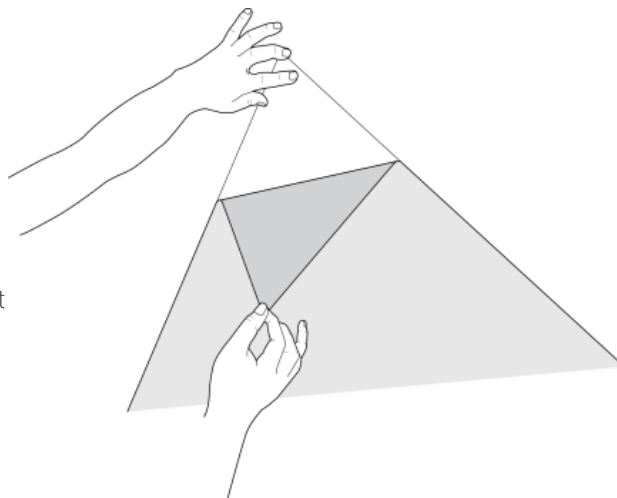
Mark on the opposite side of the window/glass the correct position for the cling film/touchfoil™

Empty the 5ml of soap into the water sprayer and add 500ml of water. Apply a *light* mist of the soap/water mix using the water sprayer to the area where the cling film will be applied

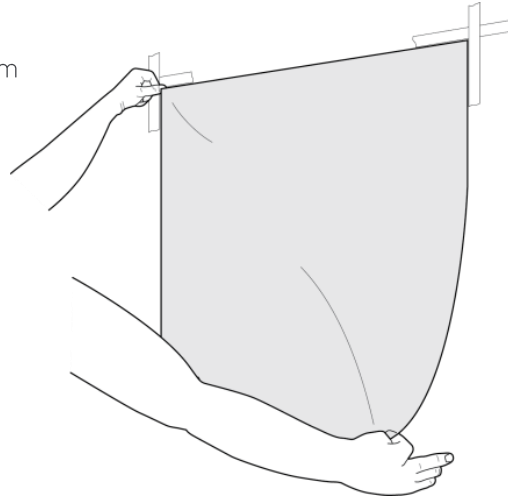


Set the spray bottle to a fine spray

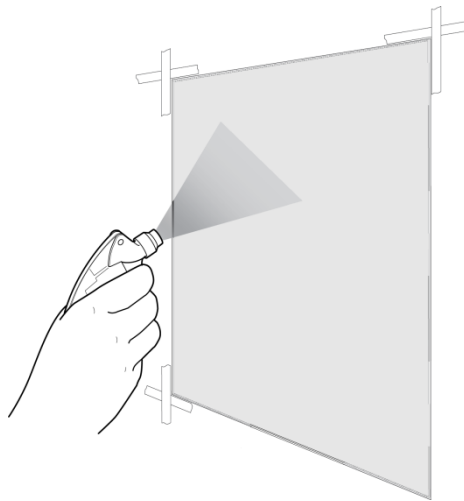
Apply the cling film to the substrate and then remove the white backing sheet. Take care not to stretch or crease the cling film.



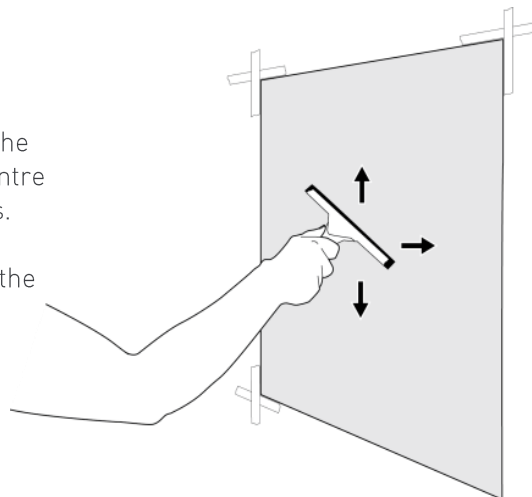
Place the top edge of the cling film in position and then slowly allow the cling film to release onto the glass also allowing the water to evenly spread.



Apply a **light** mist, using the water sprayer, onto the back surface of the cling film to stop the squeegee sticking as you laminate



Starting gently, 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

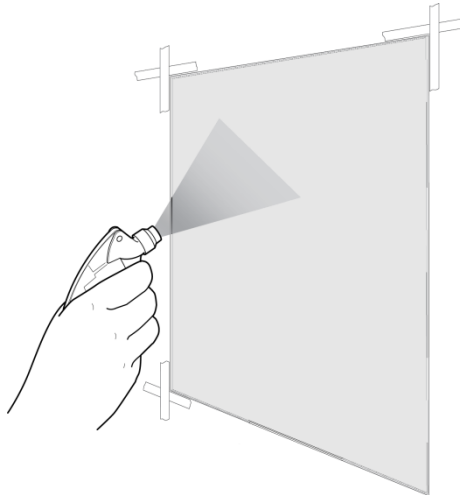
The touchfoil™ can be mounted in any orientation, however the following installation instructions assume the Printed Circuit Board (PCB) will be mounted on the bottom edge

Carefully remove the touchfoil™ from its packaging, 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

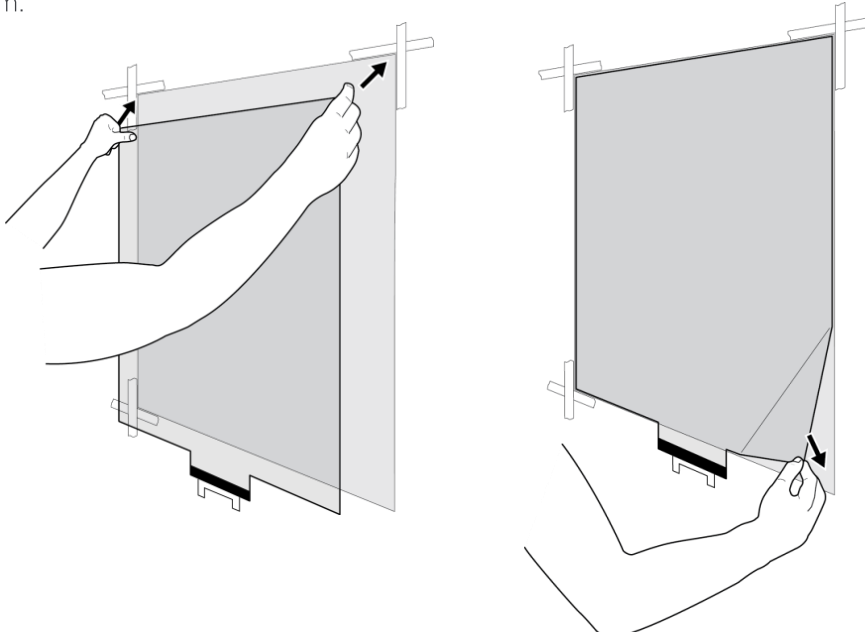
Make sure that you fix the controller if you mount the controller at the top or there is a possibility the touchfoil™ can come away from the glass.

STEP 2

Apply a **light** mist of water (with the 5ml of soap in) using a sprayer to the back of the cling film



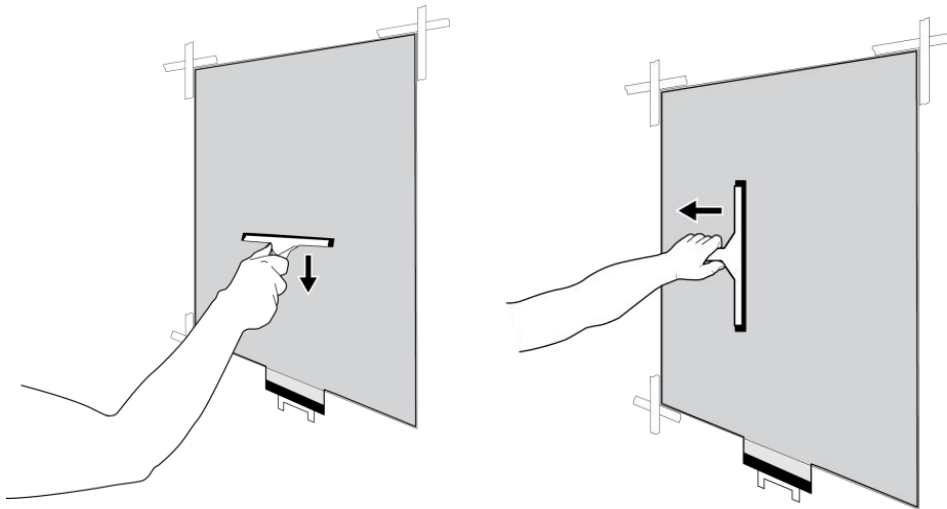
Carefully align the top edge of the touchfoil™ 5-10mm below the top edge of the cling film, and then **slowly** allow the touchfoil™ to settle onto the cling film.



STEP 3

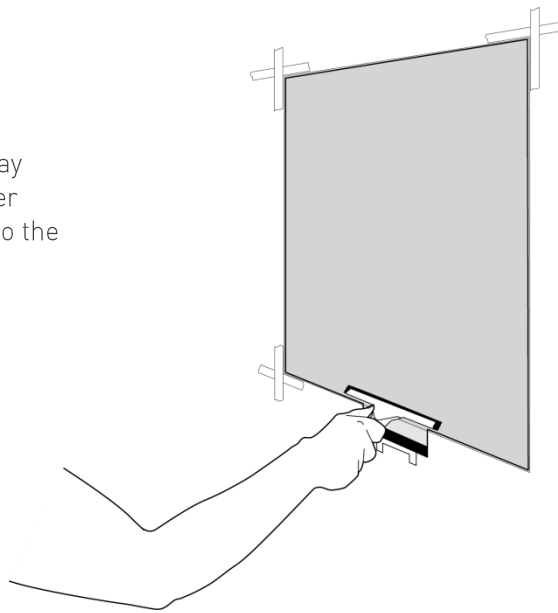
Using the squeegee, work from the centre towards the edges of the touchfoil™, carefully smoothing out any air bubbles that occur during installation

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

Stage 1

Laminating the touchfoil™ to the substrate

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

It is recommended to use filtered water

Empty 30ml of soap into a water sprayer and add 500ml of water to make a soap/water mix.

Make sure that you fix the controller if you mount the controller at the top or there is a possibility the touchfoil™ can come away from the glass.

STEP 1

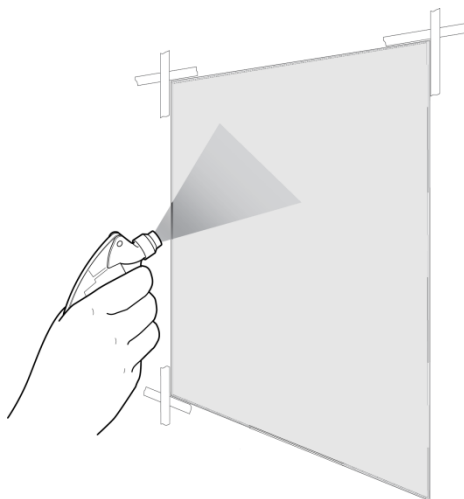
Decide on the correct position of the touchfoil™ before starting the lamination process

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

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

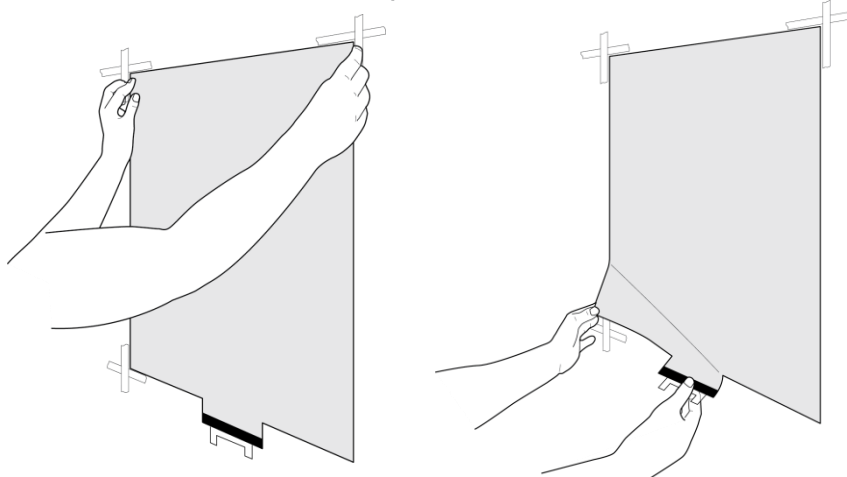


Remove all dirt and other contaminants to ensure a clean lamination to the surface

If chemical cleaners are used, thoroughly clean off the area with the soap/water mix

STEP 2

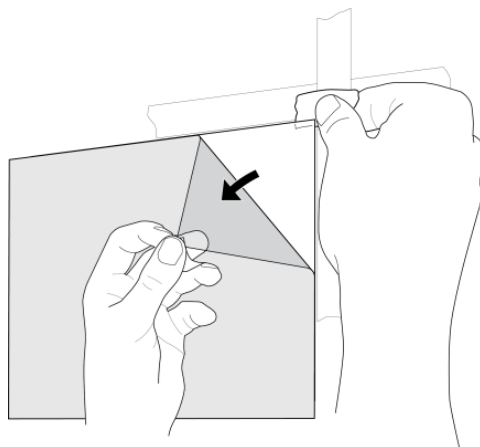
Before releasing the release layer, spray soap/water mix to the substrate you are using and hold the touchfoil™ in place while you clean both sides of the touchfoil™. To remove the release layer, first apply the **non adhesive** side of the touchfoil™ to the substrate. This can be identified by making sure the small dot is facing towards you. After this, start 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 soap/water mix

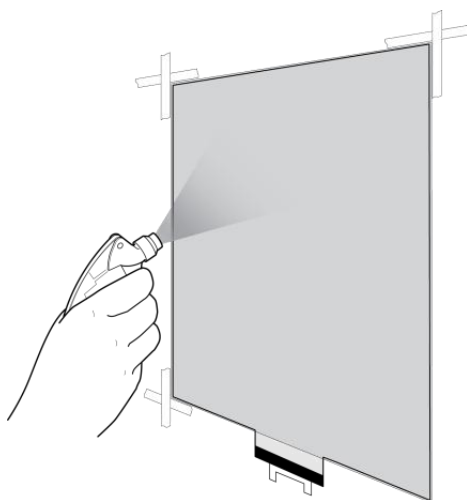
It is important to pull back the release layer close to the touchfoil™ and make sure it does not lift off the substrate



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

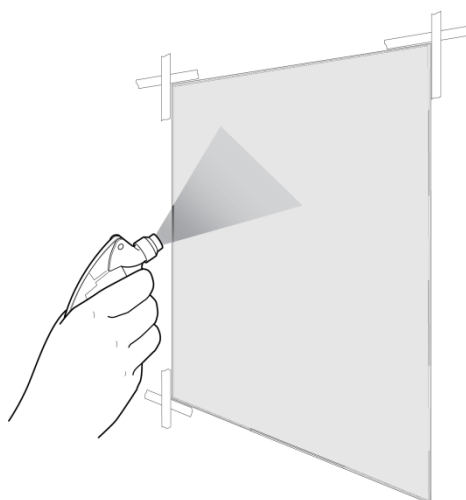
Once the protective release layer has been completely removed, spray the adhesive surface once more making sure you have even coating of the soap/water mix

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



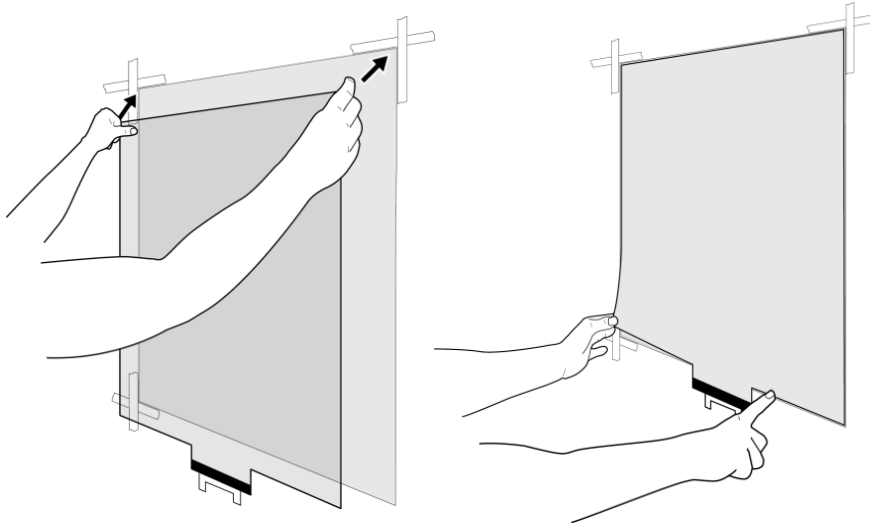
With two people, remove the touchfoil™ from the substrate. Then one person should hold the touchfoil™ in both top corners keeping it tight whilst the second person cleans the substrate

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



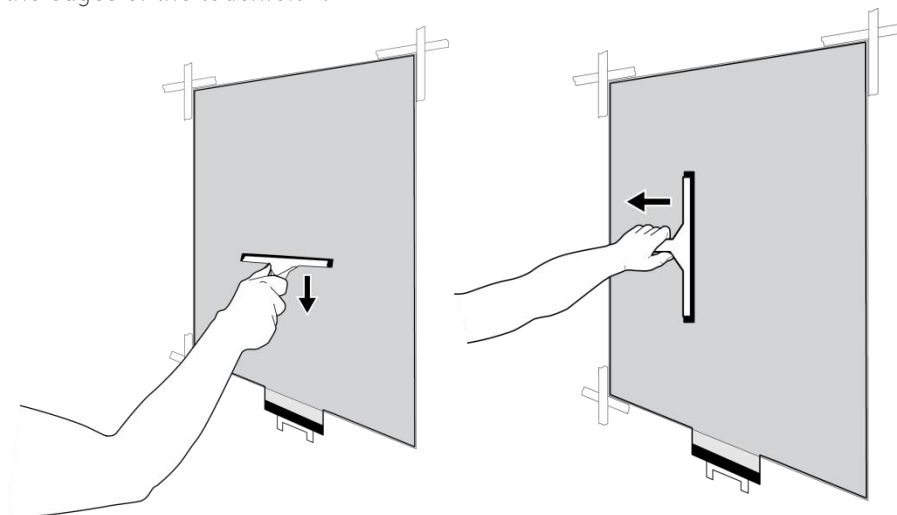
STEP 3

Turn the touchfoil™ around so the adhesive side is now facing the substrate you are applying to. Offer up the touchfoil™ and slowly allow the water to draw the touchfoil™ onto the substrate



Two people are required to remove and turn the touchfoil™. This is to keep it as tight as possible so creasing does not occur.

Lightly remove excess water using a squeegee working from the centre to the edges of the touchfoil™.

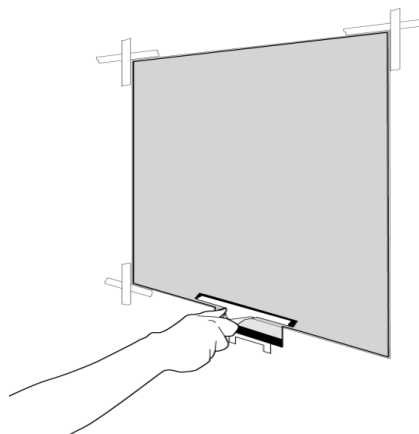


Before final lamination, make a visual check that there is no visible dirt under the touchfoil™

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

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

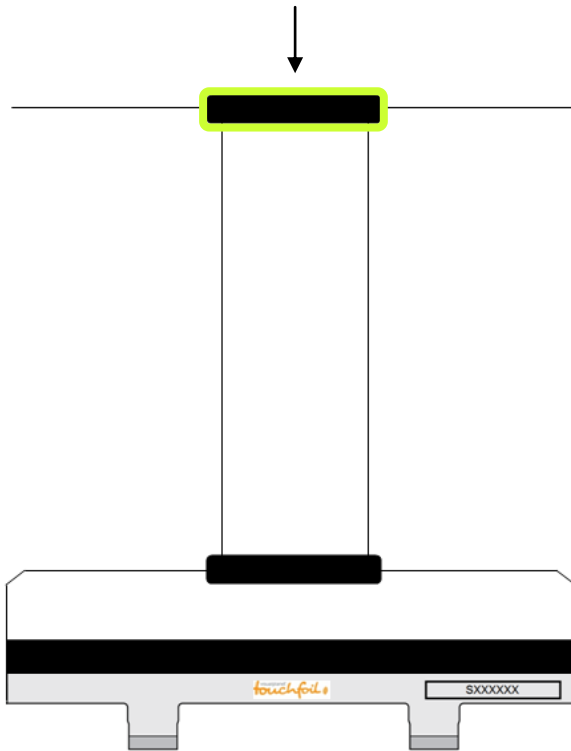
Finally, carefully spray and clean the touchfoil™



Additional Information

THIN TAIL SUPPORT STRIP

A support strip is provided for touchfoils with thin tails to be used if needed at the top of the tail. After concluding the usual process of lamination, the small black strip can be placed between the top of the tail and the substrate the touchfoil™ is attached to. This is to prevent any potential tearing or damage to the touchfoil™ tail, as well as potential de-lamination of the touchfoil™ itself. However, do not apply the support strip if this area needs to be visually clear.



Controller Installation Guide



visualplanet™

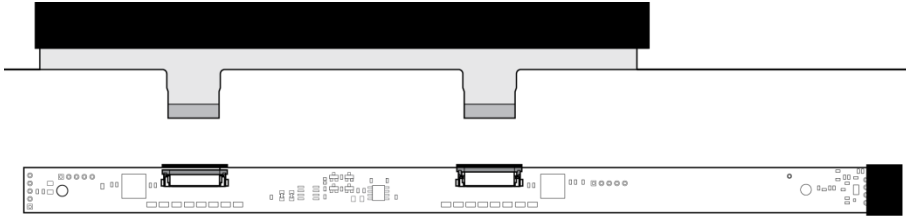


STEP 1

Connecting controller to the touchfoil™

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

touchfoil™ controller



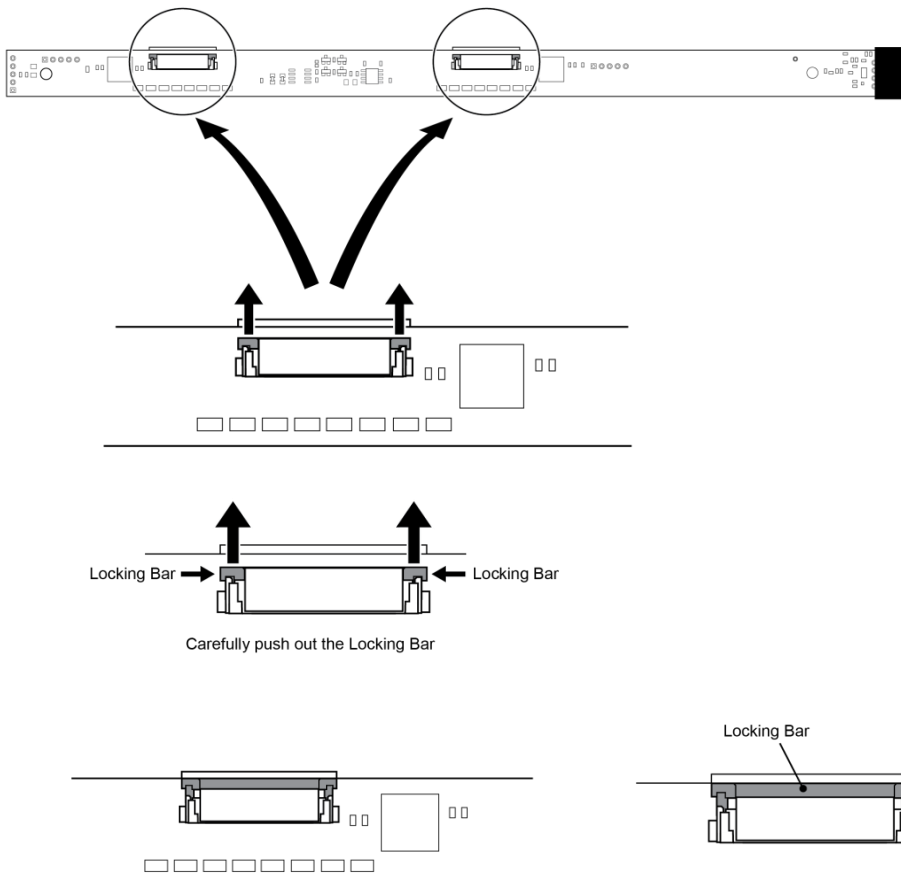
A controller installation video can be seen at:
<https://vimeo.com/touchfoil/portfolios>

The gold contacts must be inserted into the ZIF connectors on 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



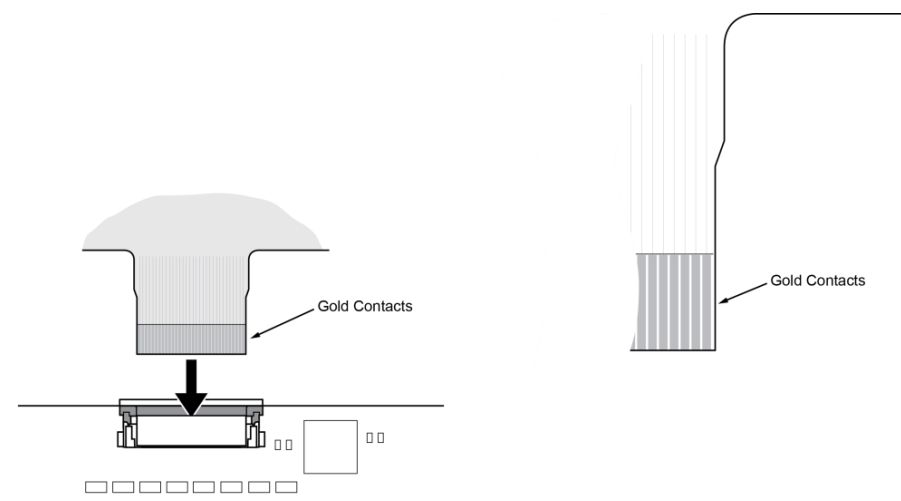
STEP 3

Inserting the touchfoil™ gold contacts into the controller connectors

Gently insert the touchfoil™ gold contacts (in the correct orientation) into the unlocked ZIF 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

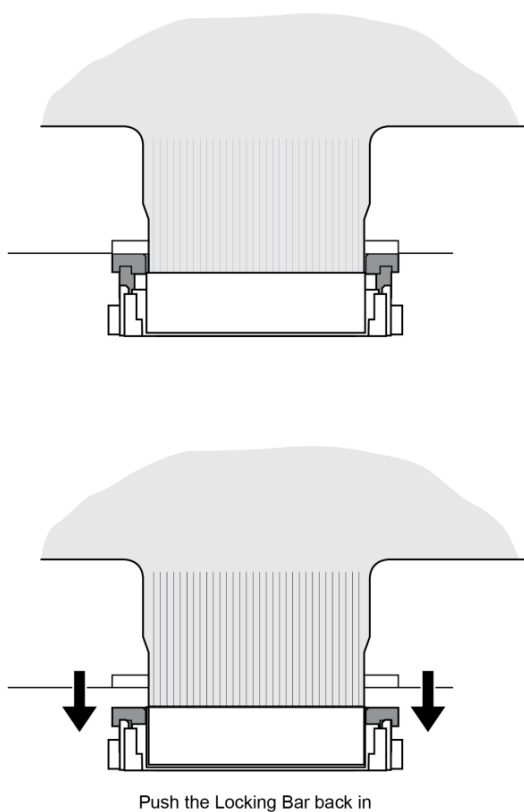
The gold contacts on the touchfoil™ **must** be clean and dry before inserting into the ZIF connectors on the controller



STEP 4

Locking the controller connectors

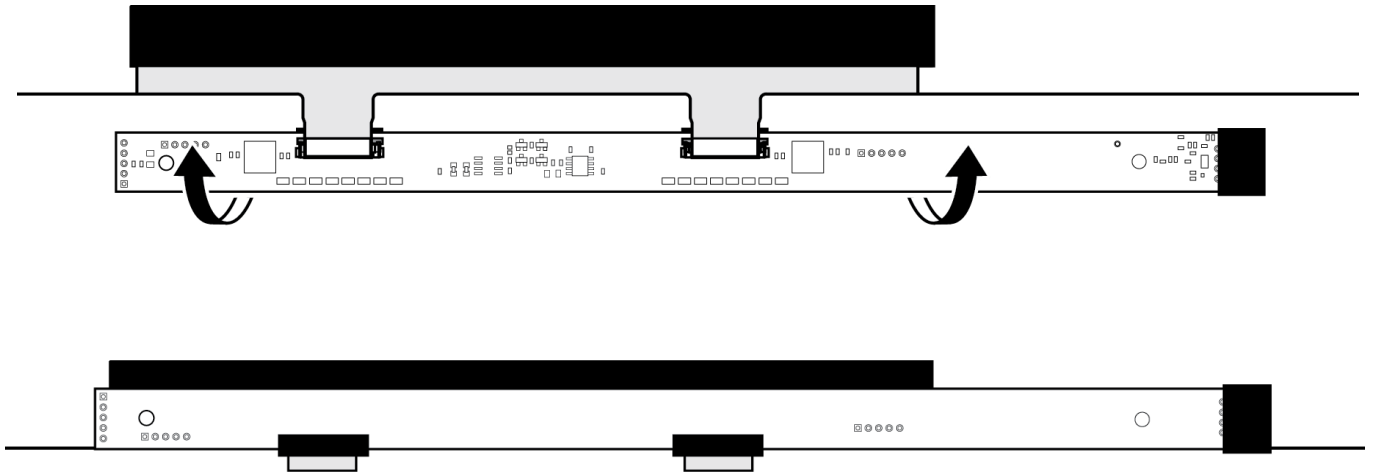
Push down the locking bar until it becomes locked securely on the gold contacts



STEP 5

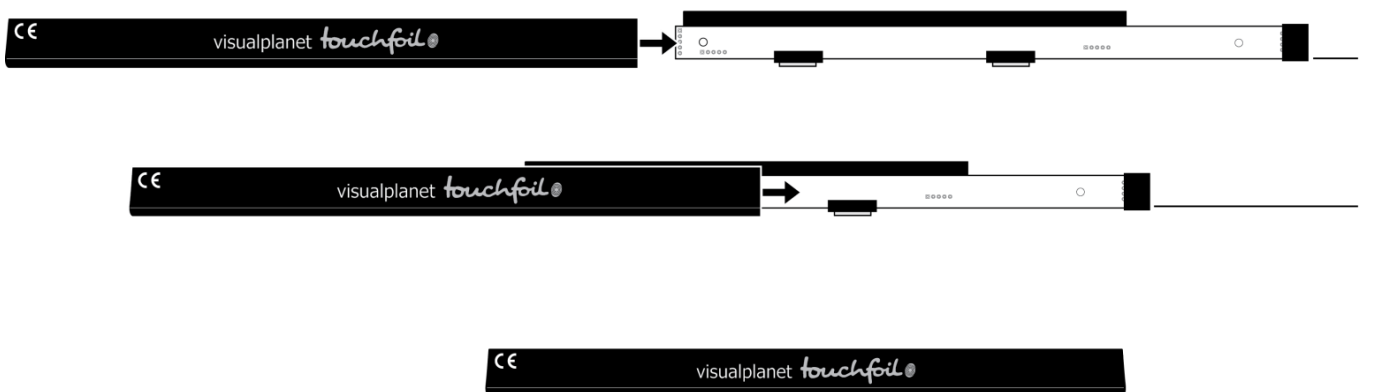
Fixing the controller cover

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



STEP 6

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



There is an adhesive layer at the back of the cover which can be used to securely fix the controller board



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 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 any interference

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

Support videos can also be seen at
<http://vimeo.com/touchfoil/portfolios>

Now enjoy the world of touch



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Manufacturers of  visualplanet™ touchfoil

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Support videos are available at <https://vimeo.com/touchfoil/portfolios>