FITTING INSTRUCTIONS

TOYOTA HILUX N90

MY26 ON

GVM UPGRADE – CAT 6 LIGHT INSTALLATION

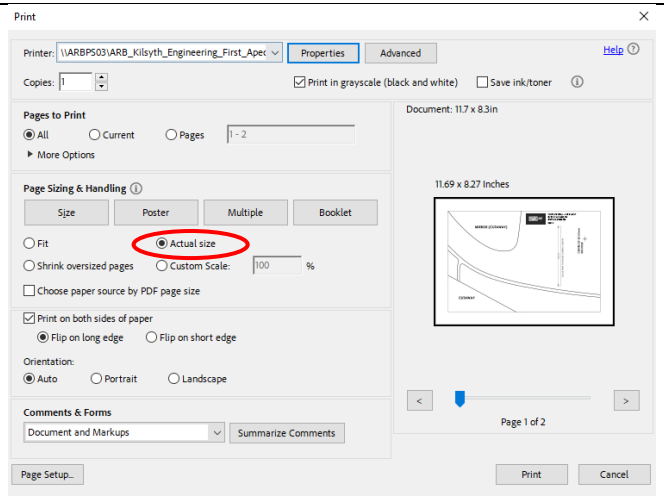
WARNING

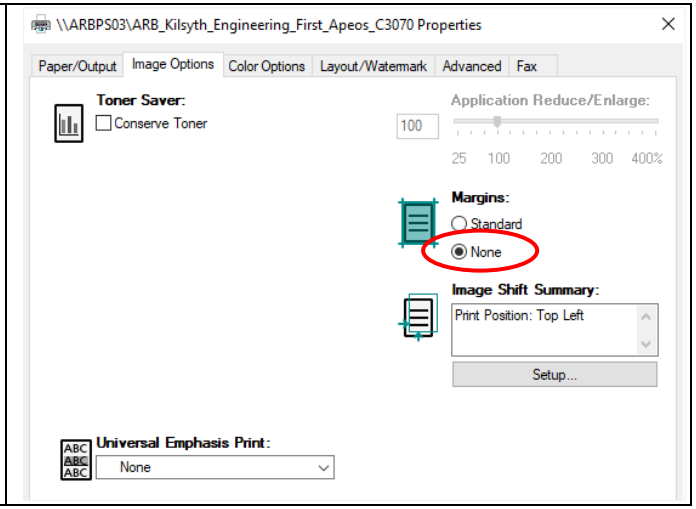
- This product must be installed exactly as per these instructions using only the hardware supplied.
- In the event of damage to any component, contact your nearest authorised ARB stockist. Repairs or modifications to the components must not be attempted without prior authorisation.
- Do not use this product for any vehicle make or model, other than those specified by ARB.
- Do not remove labels from the components.
- This product or its fixing must not be modified in any way.
- The installation of this product may require the use of specialised tools and/or techniques.
- Specialised tools e.g., torque wrenches are required to be calibrated.
- This product must only be installed by trained personnel.
- These instructions are correct as per the publicised revision. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer.
- During installation, it is the duty of the installer to check correct operation/clearances & replace any worn or broken component(s)/fastener(s).
- Work safely at all times.

Follow steps below:

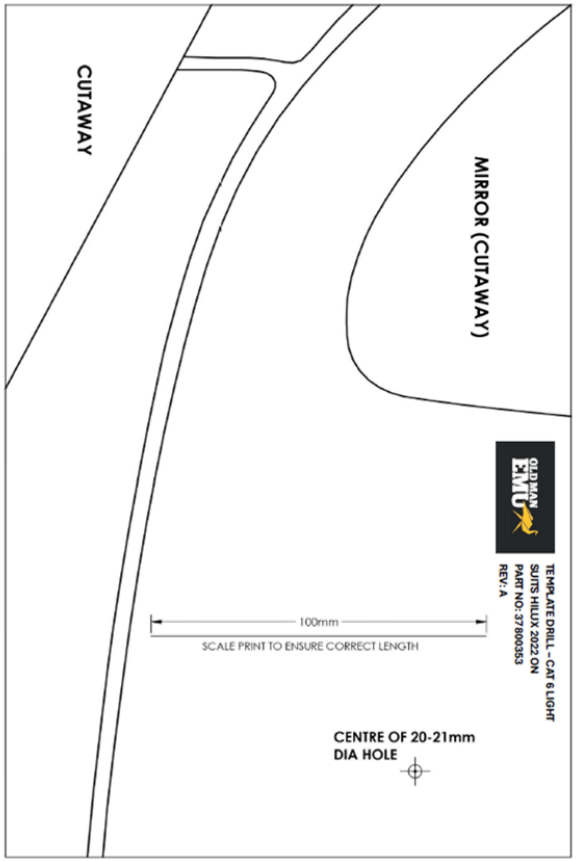
DRILLING TEMPLATE

- Print the drilling template, part number 37800353. Select A4 paper in the printing “Properties” window and set the page sizing & handling to “Actual size” before printing.
- In Image Options - select Margins as “None”





- Check the scale on the printed page to ensure it is 100mm long. If necessary, scale the print-out to ensure that the scale is the correct length.
- Cut out the excess borders.
- Cut out the sections noted on the drilling template and poke a small hole through it in the location of the centre of the hole.

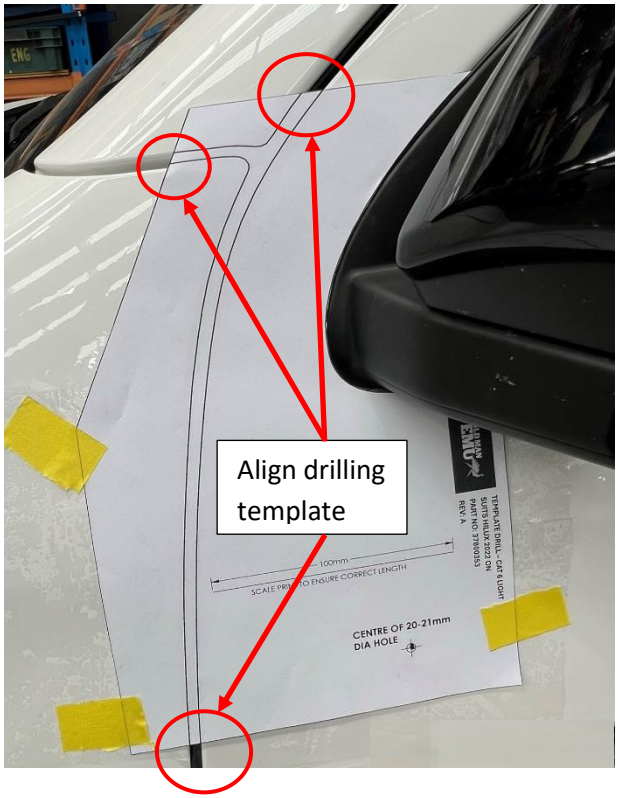


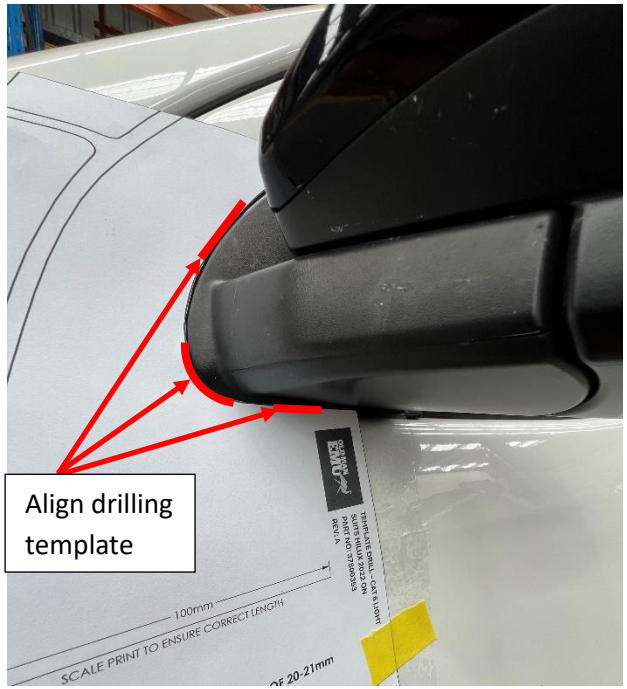


DRILLING PROCESS

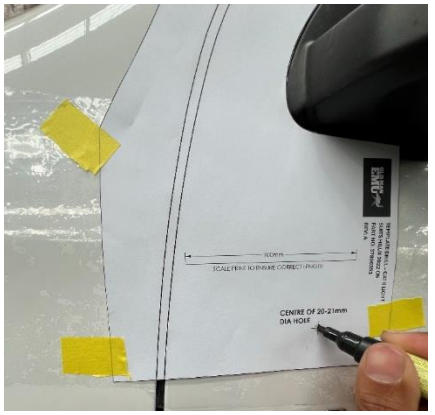
• Clean both front door panels removing all dust and dirt and install low-tack film to protect the paint from damage.	

- Locate one side of the drilling template around the trim of the side mirror (see image)
- Align the other side of the template to door frame outline (top and bottom)
- Tape the drilling template to the fender, double-checking to ensure that it remains correctly aligned.





- Using a permanent marker, mark out the centre of the hole to be drilled and remove the drilling template. Repeat for the other side.

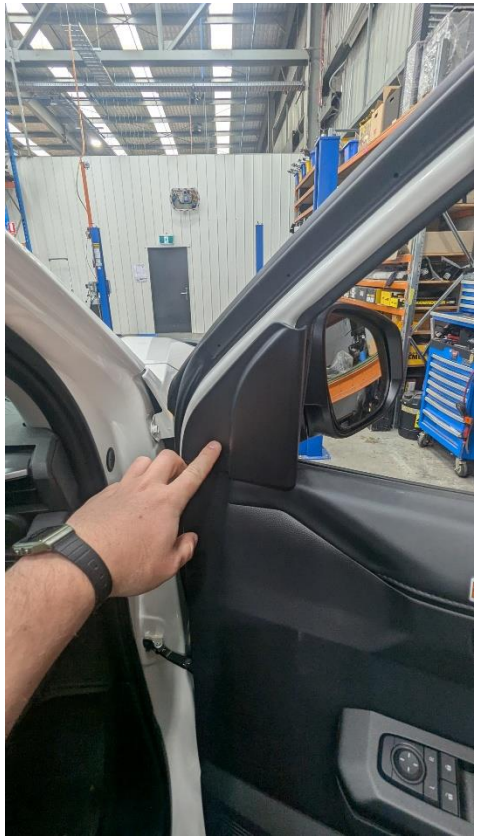
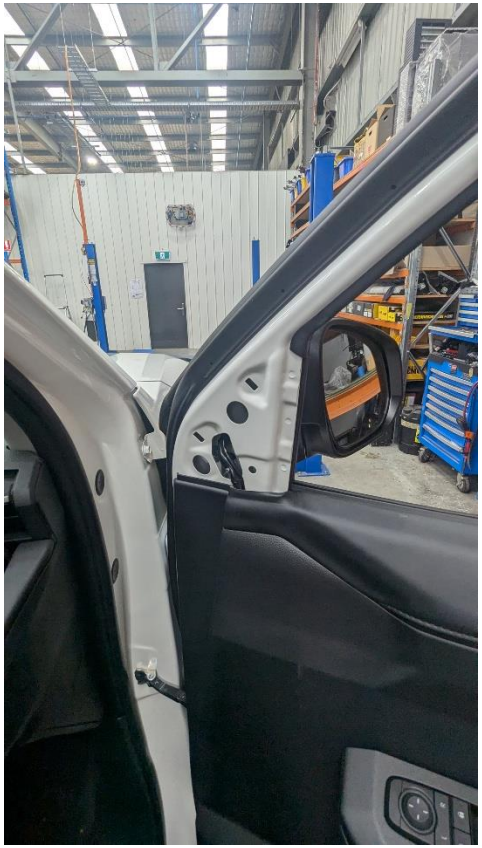


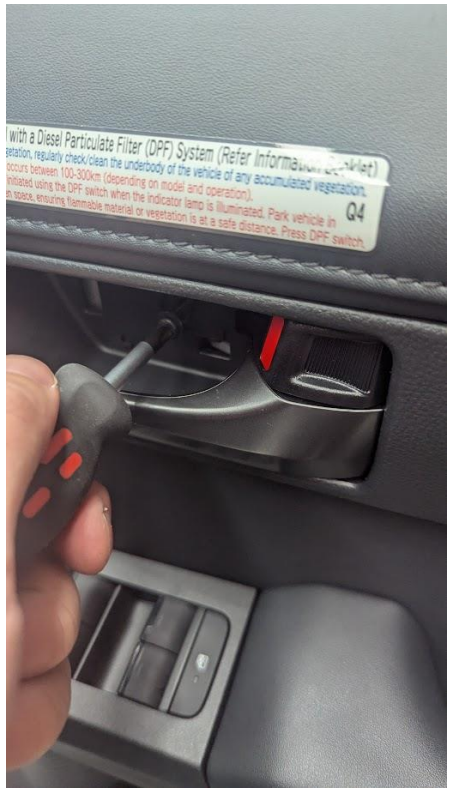
- Ensure door side window is wound up to avoid any accidental damage while drilling.
- Carefully drill a 20mm to 21mm diameter hole into both door panels using a step-drill.
- De-burr and paint the drill holes with anti-corrosion paint. Allow the paint to dry fully before installing the indicator.



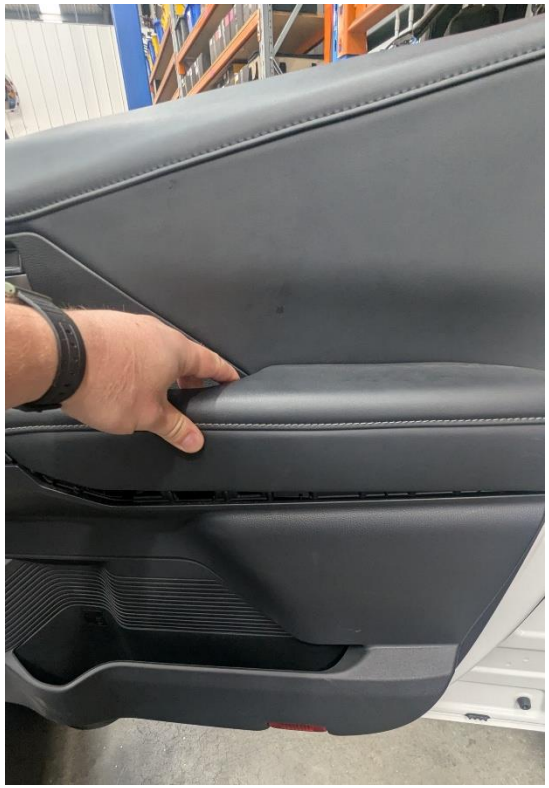


LOOM INSTALLATION

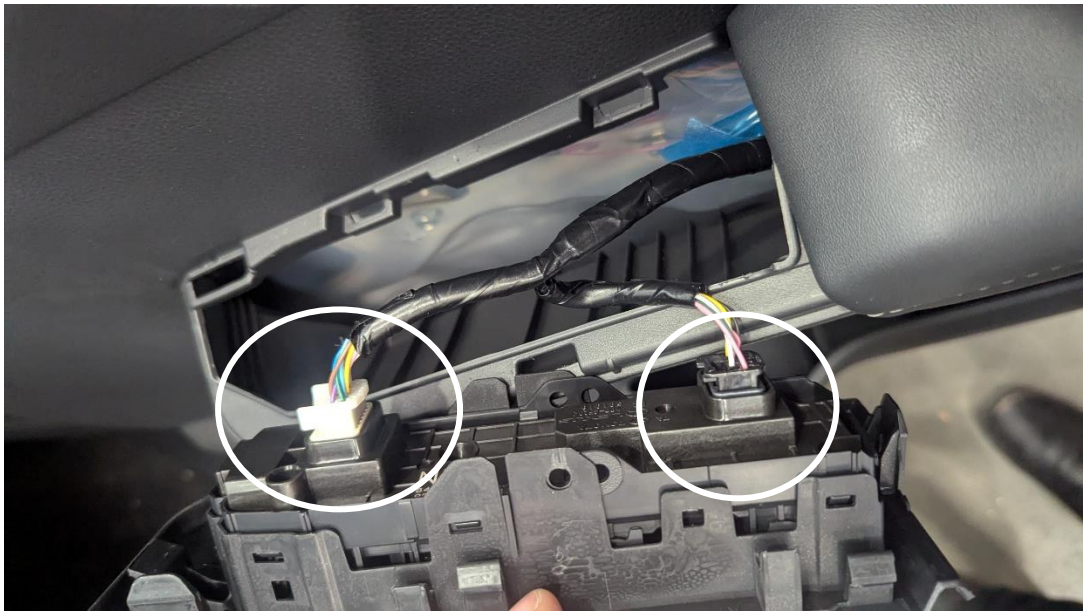
• Open the door and remove the corner trim piece above the main door trim. If it has a speaker on the corner trim, unplug the connector from the speaker. • If any of the clips remain in the door, retrieve them, and reinstall them onto the trim piece.		

• To remove the door trim, • start by using trim removal tools to remove the trim piece under the door handle. • Undo the screw behind the door handle.		

- Lift up the armrest to release the trim clips.
- Undo the screw on the underside of the armrest holding a white retaining clip
- Remove both the armrest and the white retaining clip
- Re-attach clip and set armrest aside





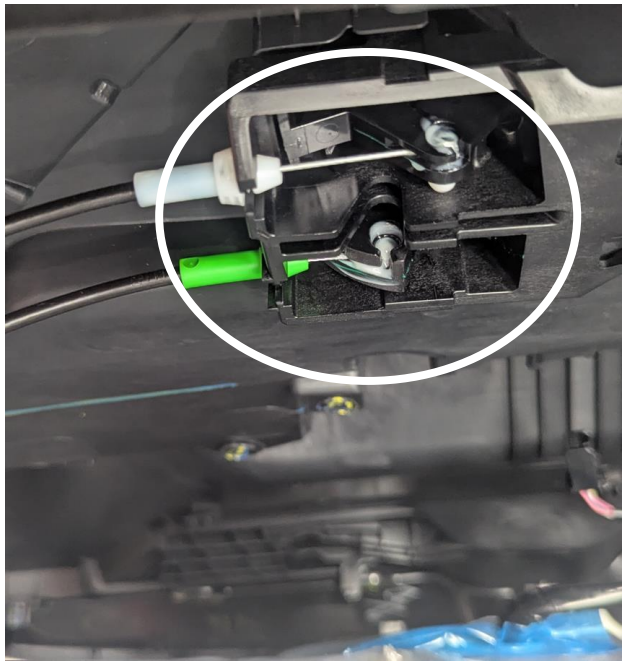
• Use a trim tool to remove the window control panel carefully and unclip the wiring connector(s), to the window controls (and door lock/mirror controls on driver side)	

- Remove the two remaining screws fastening the door card



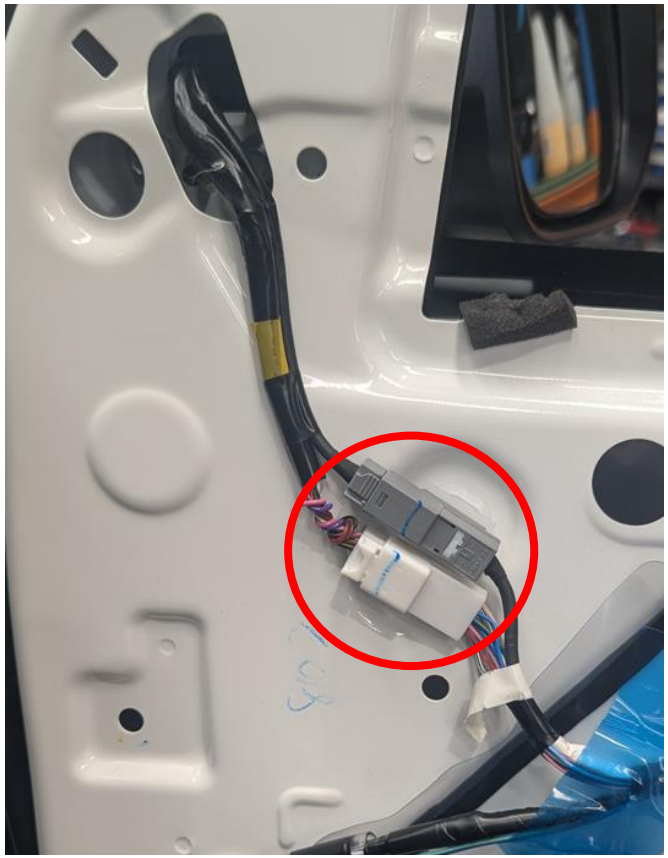
- Using trim removal tools starting from the bottom, unclip the door card from the door.
- Pull the door trim away from the door at the bottom, then lift it and unhook it from the top of the door.
- Unclip the door latch/lock cables, note down the positions of each cable for correct reinstallation.
- Set the door card aside carefully ensuring it does not get dirty or damaged.

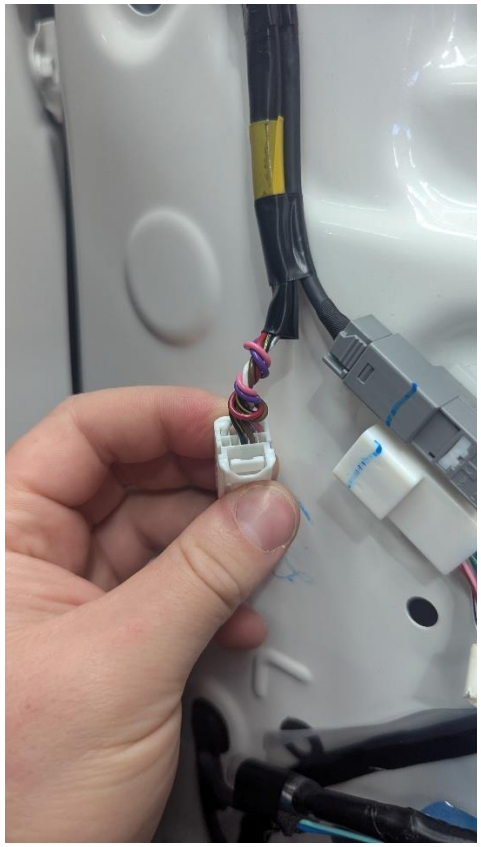




- Disconnect the connector from the loom coming out of the Side Mirror.

There are 2 options to connect the CAT 6 lamp to the vehicle wiring system.

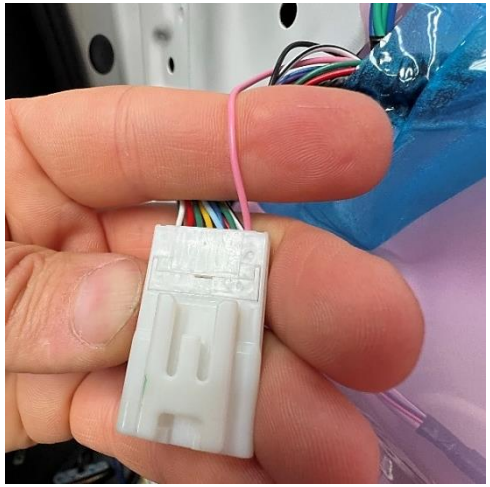


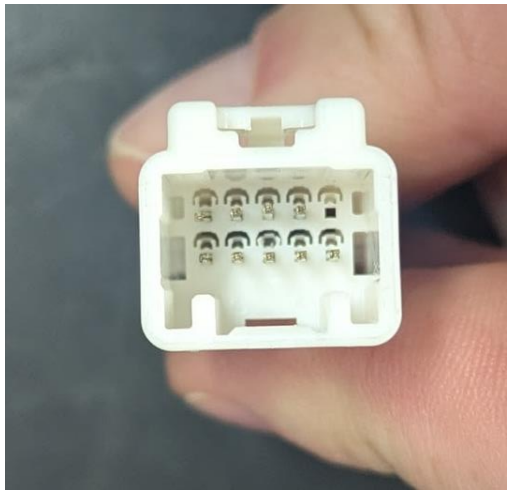


Option 1: Splicing wires (if patch loom not available)

- Locate the wire to be dehoused from the connector of the vehicle loom. It is very likely to be the pink wire (Cavity 10 as indicated in Images). This should be confirmed by using a multimeter or test light with the hazard lights on, checking the voltage against a ground terminal.

- Be careful not to short circuit between any of the terminals. If an error message is displayed on the dash, it is likely that a fuse is blown due a short circuit.

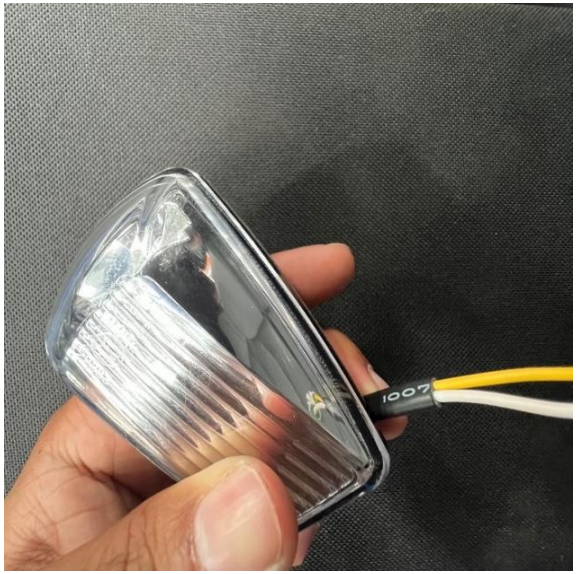




- Cut the connectors on the CAT-6 lights Provided.

- Splice the wire identified to be the indicator power source to an extension wire of suitable length. Ensure the wires are sealed using heat shrink after joining.





- Route this extension wire through the door frame by undoing the plastic seal carefully without tearing it and pass through the drilled hole and splice it to the yellow wire on the CAT-6 indicator and seal with heat shrink.

- Use another Extension wire of suitable length and splice it to the white wire (ground) on the CAT-6 light, and use a heat shrink to seal it.

- Route it through the drilled hole and pass through the peeled back plastic seal, join a ring terminal to the ground extension wire and fasten it to one of the screws behind the door card checking them for grounding. – one of the bolts is highlighted in image as a potential ground.

- Tape the two extension wires behind the door card together and zip tie them to the door frame ensuring they are clear of the window guides testing it, so it does not snag on the window during operation.

- Reapply the plastic door seal around the wires.

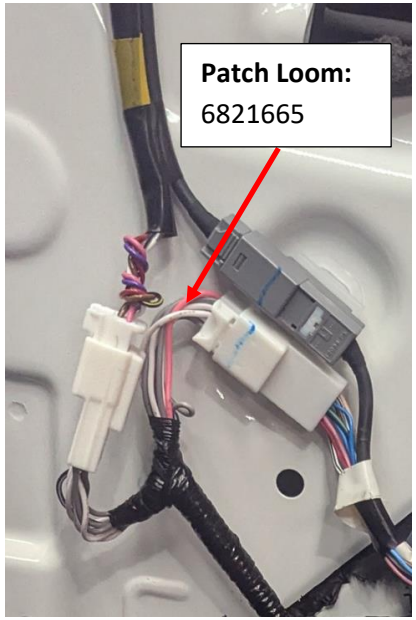


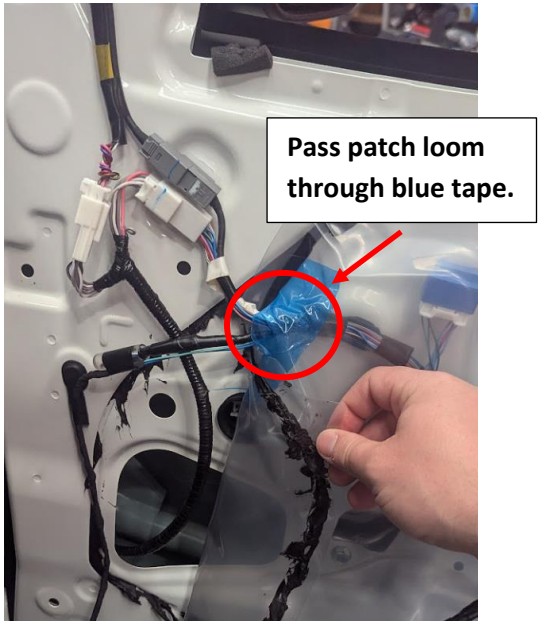


Option 2: Mirror Patch loom

If Patch loom 6821665 is available, it is a direct plug and play between the mirror connector and the CAT-6 light.

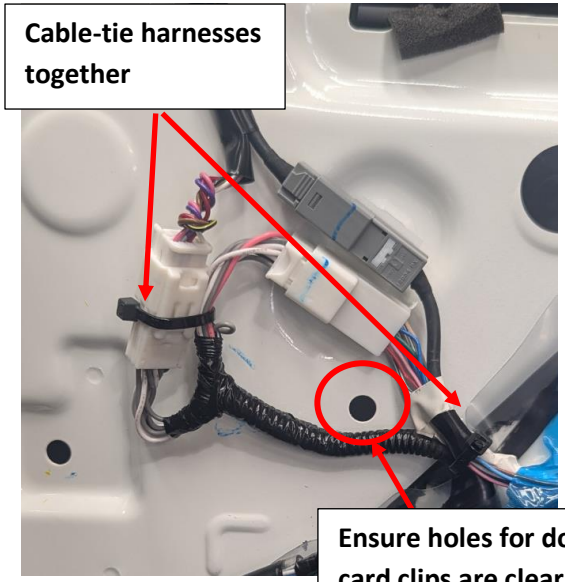
- Connect plug and play loom between mirror connector and vehicle loom.
- Peel back the clear plastic covering to allow access to route loom
- Route the patch loom through the hole with the blue tape and then through the marked cutout in door. Make sure it's clear of the window guides and pass it through the drilled hole.
- Cable tie the loom to the door frame to ensure it does not snag on the window during operation.





- Connect the CAT-6 lamp to the patch loom.
- Zip-tie the Patch loom connectors together and make sure the OE connector is mounted onto the plastic clip on the door to ensure it does not interfere with the holes for the door card clips.
- Reapply the door seal.

Note: While reinstalling the doorcard, ensure all clips are clipped in and there is no interference with the patch loom and the door card.





LIGHT INSTALLATION

Remove the backing tape from the self-adhesive foam on the indicator.

Align the light so the thicker and wider end (where the LEDs are – circled) is toward the REAR of the vehicle.

Centre the indicator wire in the 20mm hole, ensure that the light is angled backward then carefully place it onto the fender (once the self-adhesive tape touches, it cannot be realigned). Press the light onto the panel firmly for at least one minute.

Test the indicators to ensure that the OE front indicators and the new CAT-6 indicators all operate correctly. Fault-find if necessary.
(The Mirror side indicator should be disabled now)





Reinstall all parts that have been removed.

- Reinstall the door latch/lock cables.
- Hang the door trim onto the top of the door, ensuring that it's as far toward the window as possible.
- Reinstall the electrical connectors into the door trim.
- Reinstall all fasteners and trim covers





Test all switches and use the driver's door mirror controls to adjust the mirror, ensuring that all functions work properly. Troubleshoot if necessary. Press around the outside of the door trim to engage the clips. Reinstall the corner trim at the mirror. Reinstall the screws at the handle and under the door trim.		
Repeat the process for the indicator on the other door. Check the entire installation to ensure that a high-quality result is achieved. Troubleshoot as needed.		