CLEARVIEW Power Boards

PB-TA-008

CLEARVIEW® POWER BOARDS ELECTRIC SIDE STEPS



*NB: Not suitable for Single-Cab or Extra-Cab. For Dual-Cab range only.

TOYOTA HILUX N90

DEC 2025 - CURRENT

INSTALLATION GUIDE

VERSION 2.0

Thank you for choosing Clearview Accessories®

Clearview Accessories began in 2006, as a family run business owned by entrepreneur, Mike Cowan and his son-in-law, Jay Praag. In the years that followed, Mike and Jay turned their small family business with three full-time employees, into one of Australia's most respected 4WD and Touring Brands.

With a strong passion for the automotive industry, quality design and discipline in professional workmanship, our trust is built within our values of creating high quality ADR compliant designs.

Since our inception, our unrelenting commitment to creating solutions found nowhere else, has helped us establish our position as a leader in manufacturing unique 4wd and touring accessories. With an entrenched enterprising spirit, we are dedicated to creating value for, and delighting our customers.

From humble beginnings, Clearview Accessories has grown and today manufactures a range of unique, quality products for your next off-road adventure!

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Due to Clearview's Continuous Improvement Program, information may change without notice. Clearview takes no responsibility for the result of incorrect use of these installation instructions.

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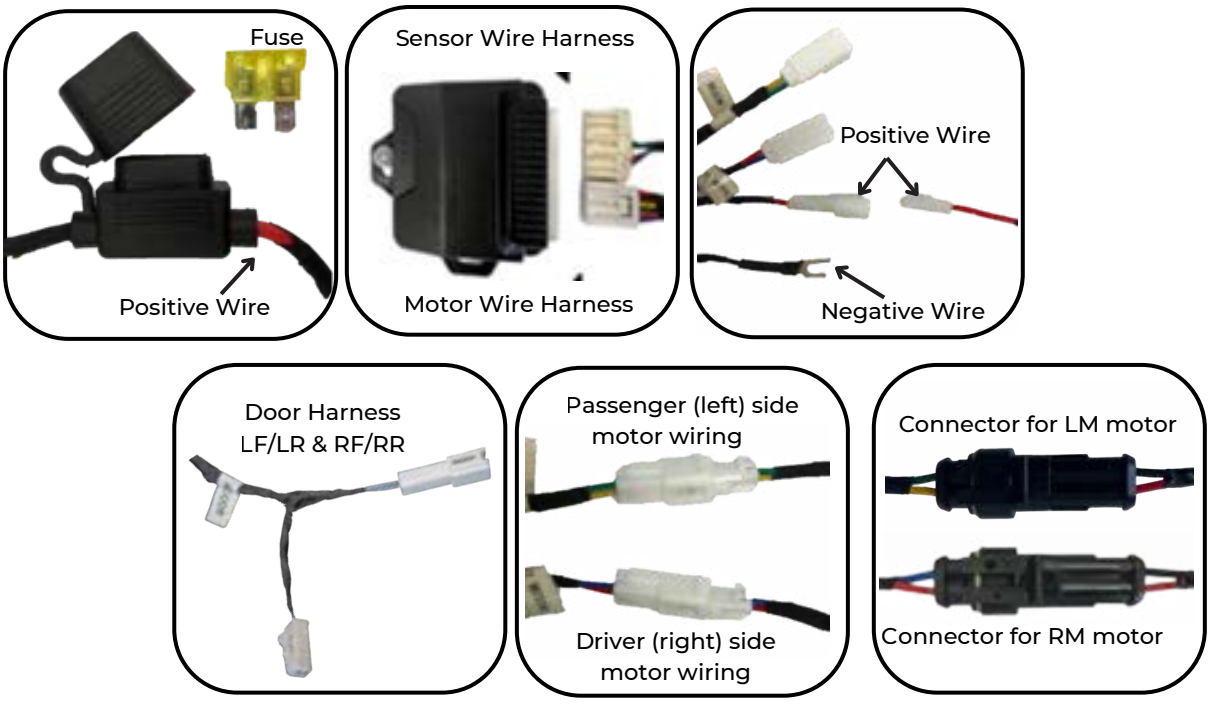
DESCRIPTION	QUANTITY	PARTS SUPPLIED
Front Bracket Assembly	1 x Right (RF) 1 x Left (LF)	
Middle Bracket Assembly	1 x Right (RM) 1 x Left (LM)	
Rear Bracket Assembly	1 x Right (RR) 1x Left (LR)	
Socket/Hex Head Bolt	8 x M8 Socket Head 2 x M8 Hex Head 12 x M6 Socket Head (in board bracket)	
Spring Washer	12 x M6 (in board bracket) 10 x M8	
Flat Washer	12 x M8	
Hex Flange Nut	2 x M8	
U Shape Packing Washer	10	
Running Board	2	
Cable Tie	20	
Control Unit	1	
Wire Harness Set	1	
Plastic Wire Feeder	1	

CAUTION **WARNING**

- Read through the fitting instructions before installation of Clearview Accessories.
- Always install the accessory following the fitting instructions. Failure to do so may cause damage to the vehicle or the accessory.
- Ensure all recyclable discarded vehicle accessory components and packaging are recycled following local recycling regulations.
- Safely store and protect any removed vehicle components.
- Remove all metal swarf and dust from all vehicle surfaces before proceeding.

IMPORTANT
Clearview recommends that installation of the Power Boards be performed by a professional as installation will require vehicle trim removal, wire routing and electrical work. The installation will take approximately up to 3-4 hours.

Control unit and wiring reference



IMPORTANT
Clearview recommends this to be completed by a professional. Incorrect installation may cause damage to your vehicle and possible personal injuries.

The following instruction is for installation of the Right-Hand Side Power Board.
Follow same instruction for installation of Left-Hand Side Power Board.

Step 1 Removal of interior trim and routing of wiring

1.1 Remove Driver-side interior trim underneath in footwell area:

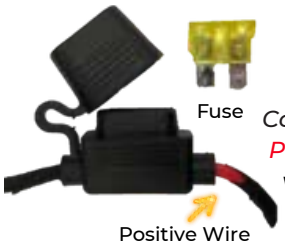
- Un-clip door sill panel and kick panel trim.

REPEAT for Passenger Left-hand side.



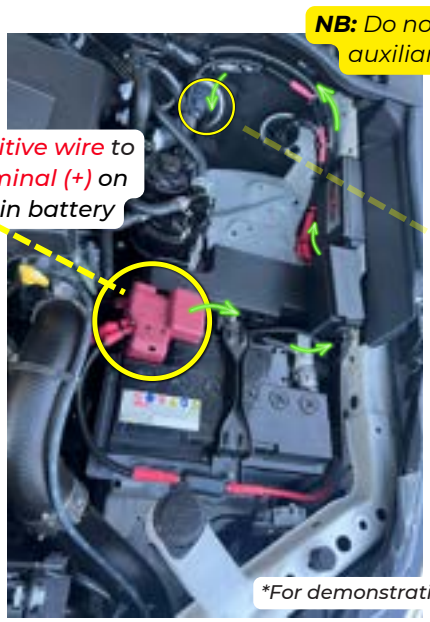


1.2 Remove the fuse from POSITIVE (Red) wire supplied, then connect wire to vehicle battery POSITIVE terminal (+) located in the engine bay. Ensure connection is secure.



- Feed POSITIVE wire through vehicle firewall into the Passenger's (Left) side of vehicle cabin.

NB: Plastic wire feeder may be required for this step and subsequent steps.

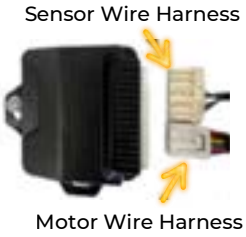




Step 2 Installing control unit and wiring

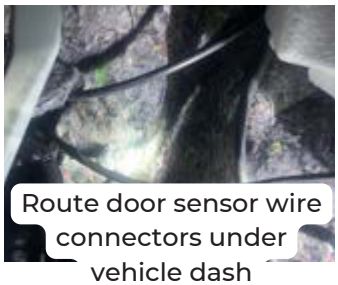
2.1 Layout ECU and Wire Harness set in Passenger footwell area.

- Connect the motor wire harness (small white power plug) and sensor wire harness (large white plug) to the control unit.
- Route sensor wire harness under the vehicle dash and bring across to Driver's (Right) side.



2.2 Route RF (Right Front) & RR (Right Rear) door sensor wire connectors under the vehicle dash using the plastic wire feeder and bring them across to the driver's (right) side.





2.3 Remove Driver-side interior trim underneath in footwell area:

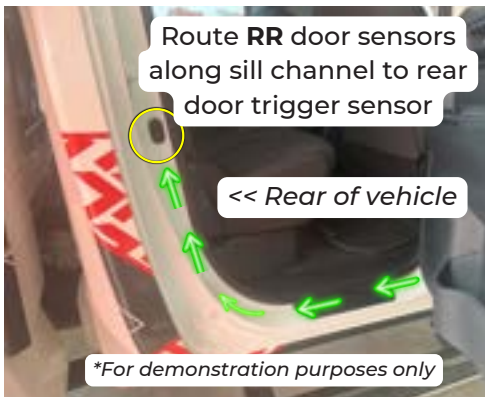
- Un-clip the door sill panels and the kick panel trim.
- Remove driver's rear passenger door sill panel

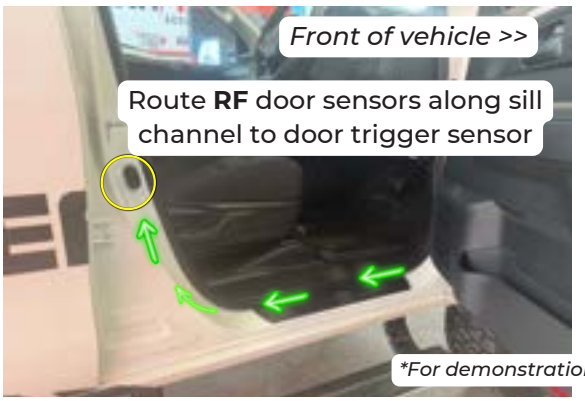
REPEAT for Passenger Left-hand side

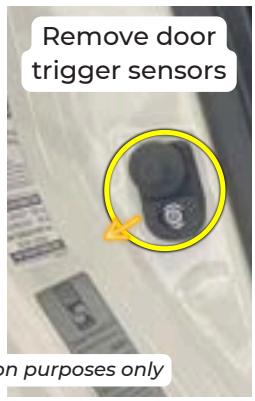


2.4 Route **RF** (Right Front) & **RR** (Right Rear) door sensor wires along the sill channel to each connector behind the B pillar and C pillar.

- Expose door switch sensor connectors and connect into rear of door switches.







REPEAT above steps for LF (Left Front) and LR (Left Rear) door sensor wires.

2.5 Reconnect each door's trigger sensor and screw back into its original position.

REPEAT for LF (Left Front) and LR (Left rear) door trigger sensors.







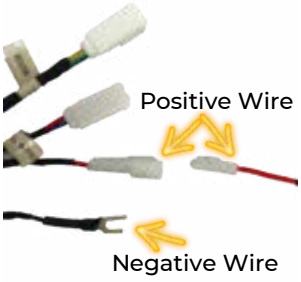
2.6 Place control unit in the passenger kick panel area.

- The control unit should not be placed in the vehicle engine bay, as exposure to heat and moisture may cause damage to the unit.



2.7 Connect the **NEGATIVE (Black) wire** from the motor wire harness to a ground point underneath the passenger side kick panel, near where the control unit is to be mounted.

- Connect the **POSITIVE (Red) wire** from **Step 1.2** to the corresponding connector found on the motor wire harness.

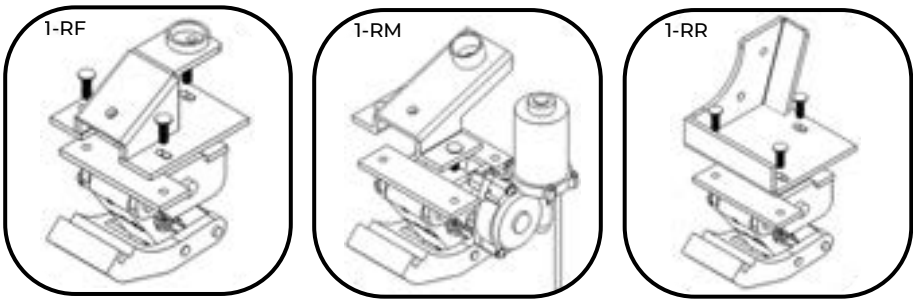


Step 3

Installing mounting brackets to vehicle

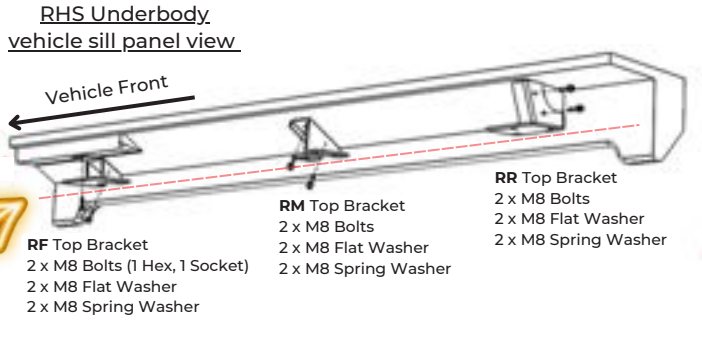
3.1 Disassemble mounting bracket assembly by undoing M8 nuts as shown below.

- Avoid mix up of components.
- This will separate the Top Mounting Bracket from the Swivel/Idler Brackets.



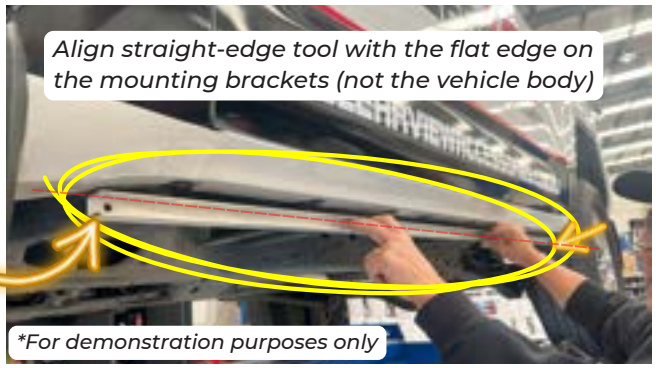
3.2 Mount **RF** (Right Front), **RM** (Right Middle) & **RR** (Right Rear) brackets to the underbody of the vehicle along vehicle sill panel using supplied hardware (nuts, bolts and washers).

- Do not tighten fully, as you may need to adjust the position of these idler and motor brackets later.



IMPORTANT
Clearview recommends a straight-edge tool to be used when mounting the top mounting brackets.

- This provides a guide to keeping them level and straight alongside the vehicle.
- Ensure the straight-edge tool is aligned with the flat edge on the mounting brackets only, not touching the body and/or tyres etc.

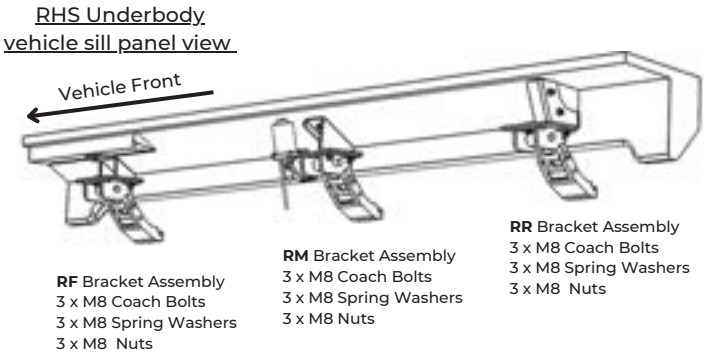


3.3 Adjust hardware accordingly where required so all top mounting brackets remain level and straight along the vehicle, this is to ensure the boards can move freely and work as they should.

- Once top brackets are all straight and level, all fixings for the top mounting bracket only are to be firmly secured and tightened.

3.4 Reassemble the Lower Swivel Idler Brackets (that were removed in Step 3.2 using the M8 nuts and bolts) to the Top Mounting Brackets.

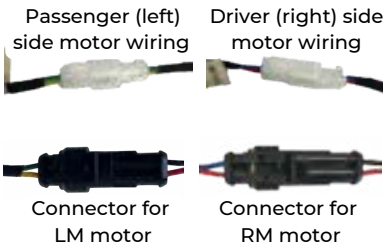
- Do not tighten fully, as you may need to adjust the position of these brackets later in Step 5.



REPEAT Steps 3.1 to 3.4 for mounting the **LF** (Left Front), **LM** (Left Middle) & **LR** (Left Rear) to the Passenger (Left) side of the vehicle.

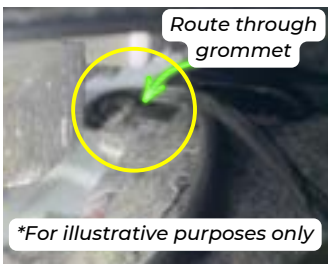
Step 4 Connecting Power to the motor brackets

4.1 Connect motor wires to corresponding connectors on the motor wire harness.



- Passenger side wires are: Green / Yellow, and Driver side wires are: Red / Blue
- Route **RM (Right-Middle)** Driver-side motor wire under the vehicle dash and bring it across to the driver-side footwell, then route through the rubber grommet in the vehicle floor underneath the Driver's footwell beneath the white foam insert. Connect wires to the motor on the **RM** Bracket Assembly.

4.2 Route **LM (Left-Middle)** Passenger-side motor wire in footwell through the rubber grommet in vehicle floor and connect wires to the motor on the **LM** Bracket Assembly.



NB: *Holes for routing can be found under floor carpet/vinyl depending on vehicle variant.*

- *Remember to place grommets back into floor panel of vehicle and feed the end of the Wiring Looms with small plug through the hole in the grommet.*

HANDY TIP: When removing the rubber grommets, you may either cut a single hole or a cross/+ pattern in each grommet, sized to allow the plug on the wiring looms to pass through.



4.3 Re-insert fuse into positive wire and test motor by opening and closing vehicle doors, or by using the door switch button.



4.4 Tidy up all electrical wires and cable tie wires to the chassis where possible to minimise risks of wires getting caught on objects.



- You may also apply electrical tape/heat shrink/conduit to wiring and connectors to provide additional protection.

4.5 Mount control unit in the Passenger side upper kick panel area, OR where available should there be limited space or other accessories in the way etc.


Mount control unit in upper kick panel area, OR where available

NB: *The control unit should not be placed in the vehicle engine bay, as exposure to heat and moisture may cause damage to the unit.*

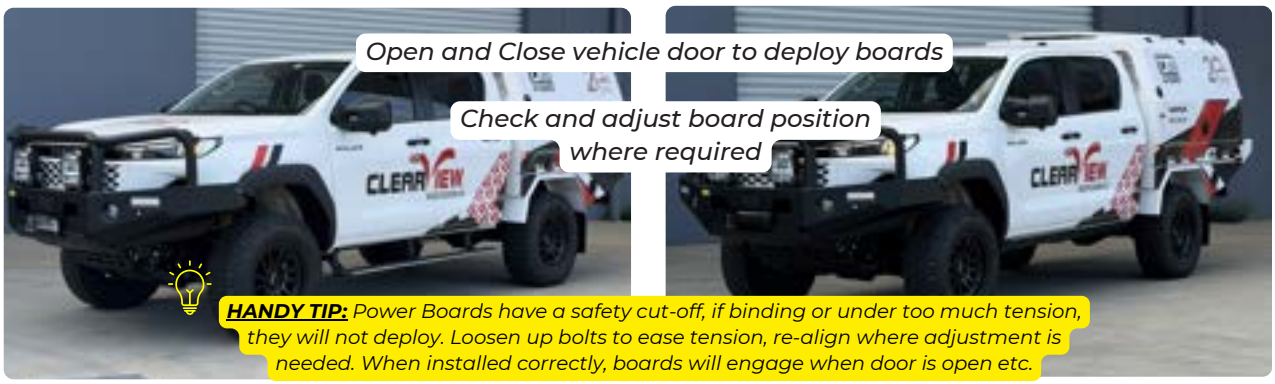
Step 5 Installing running board

5.1 Open vehicle door to deploy the motor bracket. Use M6 bolts and M6 spring washers provided, mount running board to bracket.

- Do not tighten bolts fully, as you may need to adjust the position of the running board.

5.2 Open and close vehicle door to check position of power board.

- Adjust position of idler and motor bracket, as well as running board if necessary and only tighten all bolts (M6 & M8 bolts) once position is finalised.



5.3 In some cases, the 'U shape' packing washers may need to be placed in between the front side of the bracket assembly and vehicle bracket mounting points to correctly position Clearview Power Boards.

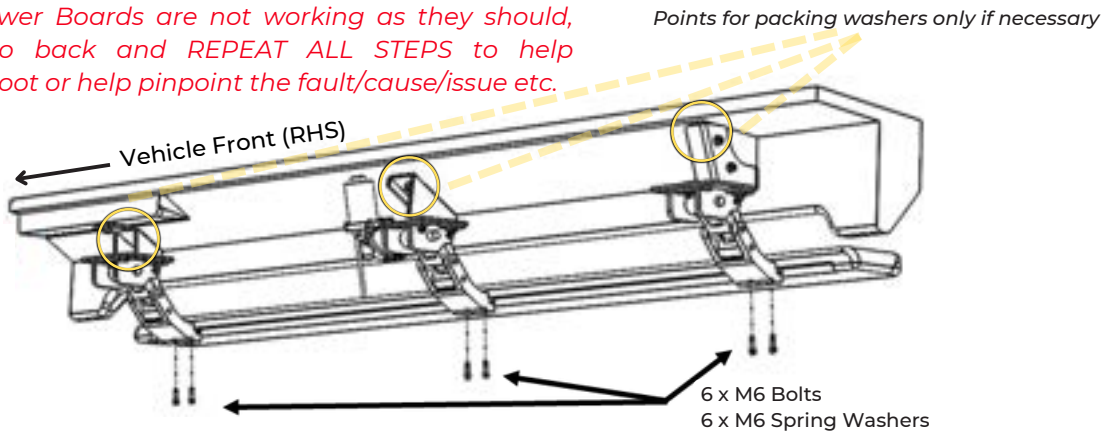


- In these few instances, the M8 bolts used to hold top bracket to vehicle will need to be loosened to insert the 'U shape' washer.

5.4 Once running board is correctly positioned, tighten all bolts in the board.

- Cycle the board 2-3 times to allow idler/motor bracket to settle.
- Secure idler motor brackets and check alignment.

NB: If Power Boards are not working as they should, please go back and REPEAT ALL STEPS to help troubleshoot or help pinpoint the fault/cause/issue etc.



REPEAT Steps 5.1 to 5.4 for Passenger side.

Normal Operation: Clearview Power Boards will deploy automatically when vehicle door is opened and retract when door is closed.

Manual Operation: On occasions you may want the Clearview Power Boards to be deployed even when vehicle door is closed to access vehicle roof. To do this, open vehicle door first so Clearview Power Boards are deployed. Step your foot on the running board and close your vehicle door at the same time, the Clearview Power Board should remain deployed. To reset, open and close your vehicle door again.

Reset Clearview Power Boards: Clearview Power Boards are equipped with a safety cut-off feature in the case where normal operation is obstructed. To resume operation, simply clear the obstruction, open and close vehicle door. Although Clearview Power Boards is equipped with the safety cut-off feature, we strongly advise to keep hands and feet away from moving components when Power Boards are in operation.



Caring for your Clearview Power Boards

- Whilst the motors don't require maintenance, regular routine cleaning will help ensure the continued smooth operation of your Clearview Power Boards.
- Using a garden hose, rinse away any loose dirt and grime that has built up on the Power Boards, their arms, and the areas around them.
- Fill a bucket with warm water and mild car wash, and gently clean the Power Boards with a soft towel. Any hard-to-remove substances can be spot-cleaned with a road grime & tar remover, ensuring to re-wash that area afterwards. Rinse well with clean water afterwards.
- Dry the Power Boards and their motorised arms with another soft towel.
- If your powder-coated Power Board arms are losing their shine, you can apply a thin layer of high-grade non-abrasive car wax after they've been cleaned. Wipe all the wax off once it's dried and the powder coat should look like new again! Use a car wax brand that contains a UV blocker or UV inhibitors. Do not use compound-type waxes as they contain abrasives that can harm the powder coating.
- Avoid detailing sprays to give a high shine on the tread or step as it can make it slippery and unsafe to stand on.
- Stay away from harsh chemicals as they can degrade the protective finish or discolour it.
- Stay within the load-bearing limits of your Power Boards. If more than one person stands on a power board and exceeds its capacity, it could bend the board or break the arms.

Maintaining Powder Coated Surfaces

Whilst powder coating is a lot more durable and longer lasting than paint, it can still be affected by dust, dirt, salt water, constant exposure to the weather, and collisions. Harsh chemicals and solvents can also damage the powder coating. Once damaged, the surface is a lot more vulnerable to fading and failure.

Whilst the powder coat acts as a protective "shell" over the mirror base, it isn't damage-proof. Chips or scratches can let moisture, dirt and/or salt particles in, harming the surface underneath and causing the powder coat to chip or crack. Once it does, its shell can be picked away and peeled off. Ongoing maintenance is important to increase the life of the finish of your powder-coated surfaces.

With the right maintenance, you can increase the life of the finish of your powder-coated surfaces:

- We recommend regularly inspecting your powder coat and wiping any dust off with a soft cloth. Clean, good-quality microfibre cloths are recommended.
- We recommend regular washing with highly diluted mild soap and water. Use a soft towel to gently clean. Rinse and dry with another soft towel.

It's important in coastal areas to regularly clean any powder-coated surfaces as salt will stick to the coating, dulling its appearance. This can leave your powder-coated surface looking chalky. We don't recommend paint touch-ups to cover imperfections as paint won't adhere to powder-coated surfaces. A local professional can quote to repair the powder coating.

Pressure Washing Warning

When using a power washer on your vehicle – please take care not to subject the Power Board to the pressured water spray. High-pressure water washing of the Power Boards can affect the electrical operation by forcing water into electrical connections. Although the Power Board components are sealed, they are not designed to handle high-pressure water directly. Damage resulting from water ingress from high-pressure devices is not covered under warranty.

Can I perform the installation myself?
We recommend installation to be completed by professionals, as there is electrical wiring involved, as well as removal of vehicle trims. However, if the individual is hands-on and has experience working on cars, then they're most likely capable of performing the installation themselves.

What is the fitting time?
Allow approximately 3 hours. However, this time estimate will be dependent on the experience and skill of the installer.

Can I install Power Boards with my current side step?
No, any existing side steps will need to be removed in order to fit the Power Boards.

Where does your Power Board mount to?
The Power Boards mount to the cabin underbody. Usually around the inner surface of the vehicle cabin underbody. It does not mount to the chassis rail directly like many other side steps.

Can I modify the boards to suit a vehicle?
No, the Power Boards are designed to be vehicle-specific. The brackets are designed to suit the underbody shape of individual vehicles, modifying them will affect the fitment and geometry of the brackets. Controller units are also vehicle-specific, so they will not work if plugged into an incorrect vehicle. Any modification will void your warranty.

Do I need to cut wires in my vehicle to install the Power Boards?
The Power Boards come with suitable plugs for the vehicle, so no wires need to be cut.

How much weight can the Power Board support?
The boards are rated up to 300kg on each side.

I already have something plugged into my OBD-II port, where am I going to plug the Power Board harness if it also uses the OBD-II port?
Power Boards that obtain signal from vehicle OBD-II port will come with a harness that has a piggyback plug, so when the Power Board is connected to the OBD-II port, there will still be a free OBD-II connector for ScanGauge and/or other equipment.

How does your Power Board work?
The Power Boards obtain door opening and closing signals from the vehicle, which are sent to a controller unit. The unit then sends a signal to the motors, which then open and retracts the side boards.

How does your Power Board obtain the signal to deploy sideboards?
The Power Boards obtain door signals in several ways, depending on the vehicle model. It can obtain signals from:

- OBD-II Port (On board diagnostics)
- Steering column connector
- Door switch
- Air conditioning controlling unit

Please refer to the Power Boards model list to see where the boards obtain signals from in specific vehicles.

Can I use the Power Boards as rock sliders when off-roading?
The Power Boards are not designed to be used as rock sliders. As this may damage the brackets/motors/boards and cause them to malfunction. The brackets and motors will also become catch points if they're used as rock sliders.

Are the motors and plugs waterproof for river crossing?
The motors are IP68-rated, meaning they are dustproof and safe for complete water immersion.

Clearview® Power Boards are designed and manufactured to the highest quality standards. We stand behind our Power Boards with a 12-month Manufacturer's Warranty.

Clearview Accessories® warranty applies to the original purchaser only. Please ensure that your receipt is kept in a safe place. A receipt will be required to make a warranty claim on any Clearview® product. If we determine that a Clearview® Power Board is defective in materials or workmanship during the Warranty, we will either repair or replace the product. Repair or replacement is solely at the discretion of Clearview Accessories®.

Please ensure that you fit the Clearview® products in accordance with the product information provided and all relevant vehicle safety and compliance laws; and use the Clearview® product for the purpose for which it was originally designed. This warranty does not apply to failure or damage caused by incorrect or faulty fitment, accidental or intentional damage, alteration, acts of nature, vandalism, collision, road hazards or adverse conditions, misuse, abuse or neglect of the Clearview® product, including improper repair or maintenance or failing to repair and maintain the product, failure of other products, operation of the product outside of its environmental or technical specifications, or repair or modification carried out by anyone other than Clearview Accessories®. No charges will be accepted for external labour or materials without prior advice or clearance from Clearview® claims team. Clearview Accessories® warranty does not cover any scratches or chips.

Clearview® Power Boards are designed to be vehicle-specific. When purchasing Clearview® Power Boards, carefully select your product according to ADR compliance laws and vehicle specifications. Clearview® Power Boards are not designed to be modified for convenient use on alternative vehicles. Alteration, modification, or manipulation of our products will void all warranties with Clearview Accessories®.

All claims under this warranty should be lodged through our website warranty section https://www.clearviewaccessories.com.au/about/warranty/ with the detail of the fault, proof of purchase, proof of identification and vehicle fitment details where relevant. If your claim is accepted for defects in material or workmanship Clearview® will, at its discretion, offer to repair, replace parts, or return and refund.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. In the event of a minor failure, the company reserves the right to choose to repair or replace the product.

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