

CLEARVIEW **SwingBoards**

SB-TA-007

CLEARVIEW® SWING BOARDS ELECTRIC SIDE STEPS



TOYOTA PRADO 250 SERIES

2024 - 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)	
Rear Bracket Assembly	1 x Right (RR) 1 x Left (LR)	
Spring Washer	12 x M6	
Flat Washer	12 x M8	
Hex Flange Nut	4 x M8	
M8 Bolt with Washer	6	
U Shape Packing Washer	10	
Swing Board	2	
Cable Tie	20	
Control Unit	1	
Wire Harness Set	1	
Plastic Wire Feeder	1	

IMPORTANT

Clearview recommends installation of the Swing Boards to be performed by a professional as installation will require vehicle trim removal, wire routing and electrical work. The installation should take approximately 3 hours.



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 if the surface is used for accessory installation.

BEFORE YOU START

- Remove the Battery cover to get the terminal exposed (Image 1)

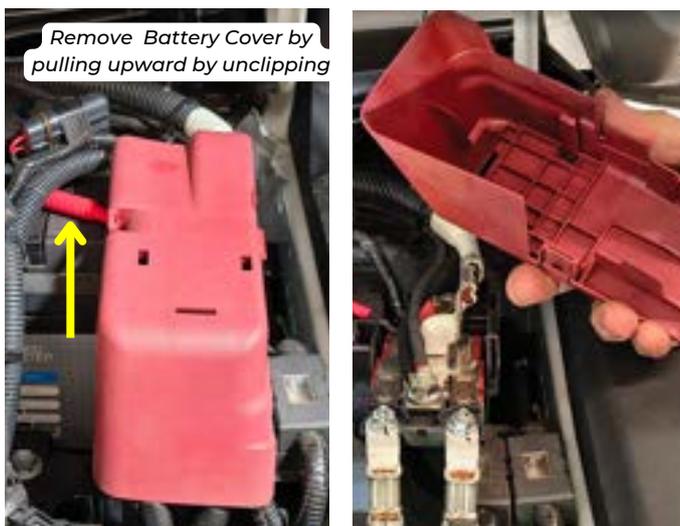
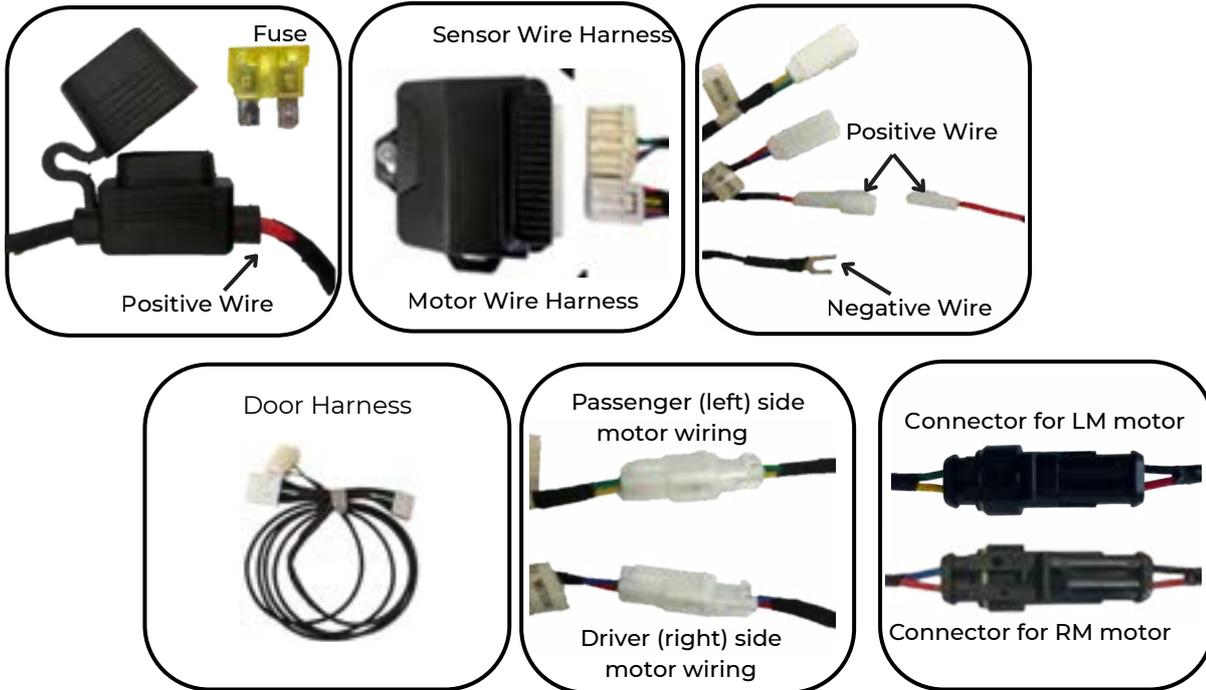


Image 1

Step 1

Installation of wiring



1.1 Remove the fuse from the **positive (red)** wire supplied and connect the wire to the vehicle battery positive terminal.

- Ensure that the connection is secure.



1.2 Feed the **positive wire** down the Body frame of the vehicle as highlighted to the underside of the floor (Rubber Grommet).

OR

Feed the positive wire through the vehicle firewall into the passenger (left) side of the vehicle cabin. A plastic wire feeder already supplied can be used for this steps.



Run the +ve wire down the Body frame to the underside of the floor

1.3 Remove front passenger door sill panels by popping outwards as highlighted.



1.4 Remove LHS & RHS Passenger side kick panel by unscrewing the plastic hardware with your fingers and popping firstly upwards and outwards as highlighted by arrow.



1.5 Remove LHS Passenger interior trim underneath glovebox by pulling downward and unplug wiring connected to the trim.

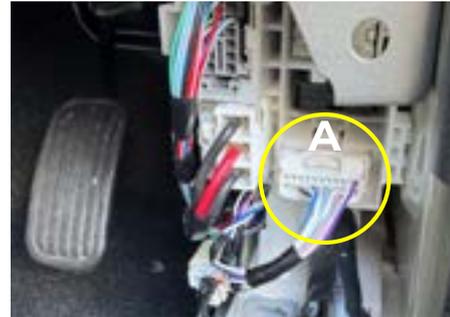


1.6 There are 3 screws for RHS Trim panel under the dash as shown. Unscrew them with Philips head screwdriver.

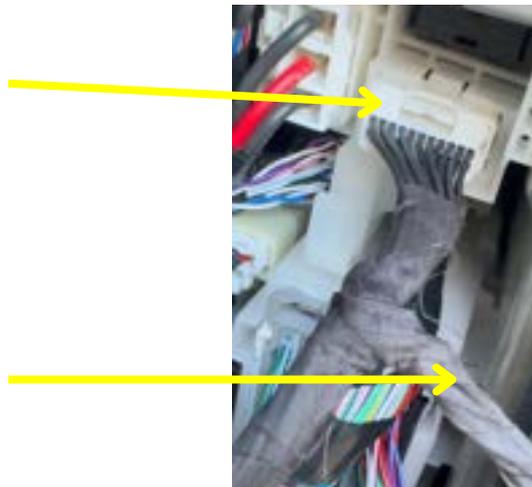


Disconnect the battery by removing the negative terminal before pulling off the OBD connectors. Do not reconnect the battery until the wiring has been properly connected to the swingboard motors.

1.7 Disconnect the 24-pin connector (marked 'A') on the driver side of the OBD, as shown. Leave it accessible so it can be connected to the supplied wiring harness at step 1.8.

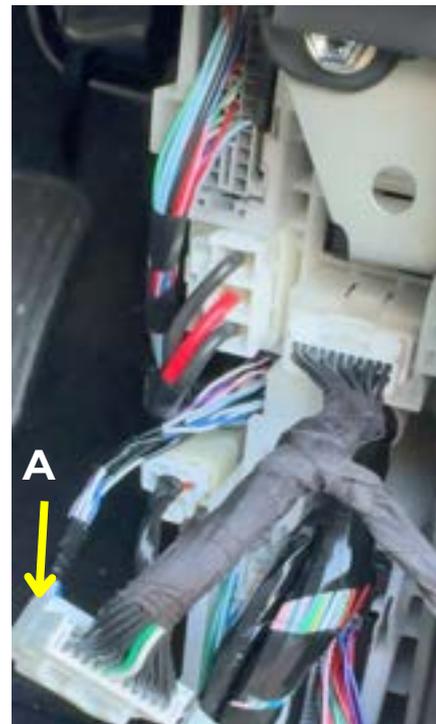
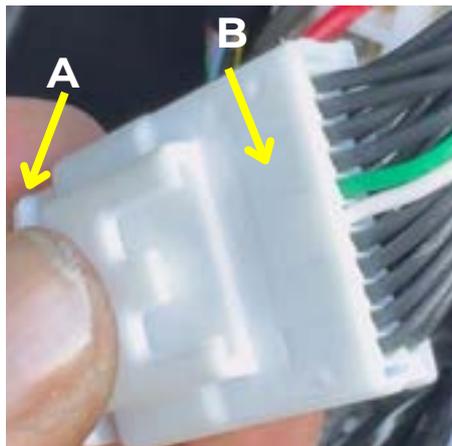


Plug the Supplied Door Wiring Harness (All black leads) at the OBD as shown.

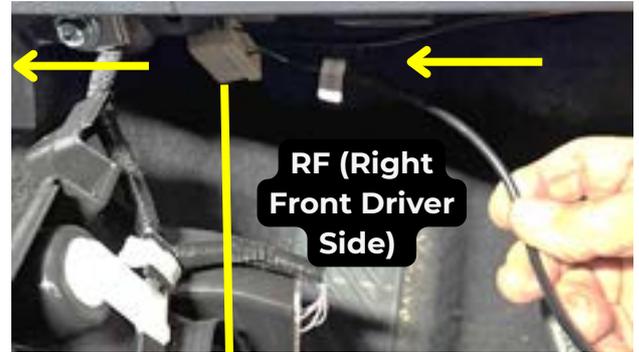


This branch of the wiring harness will be routed across to the passenger side for connection to the ECU Unit.

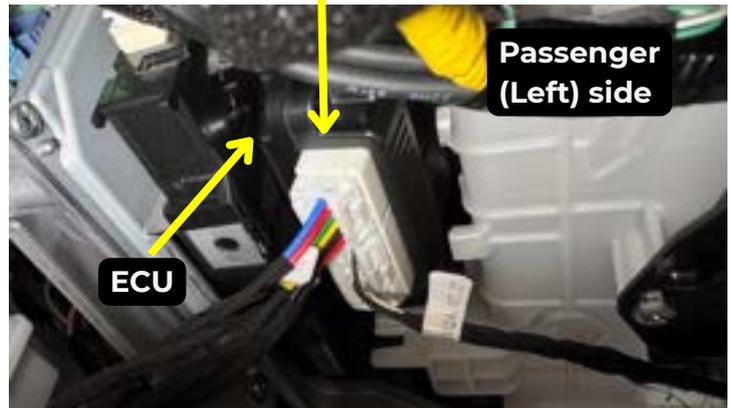
1.8 Connect the OEM connector removed from OBD connector **(1.7) highlighted "A"** to the door wiring harness connector with Green and White wire **highlighted "B"**



1.9 Route RF (Right Front) sensor wire harness connectors under the **vehicle dash** using the plastic wire feeder and bring them across to the Passenger (Left) side.



2.0 Mount Electronic control unit (ECU) in the passenger kick panel area either through **Double sided Tape or Cable Tie** and then plug the RF sensor wiring harness to the RT Side of the ECU as highlighted.



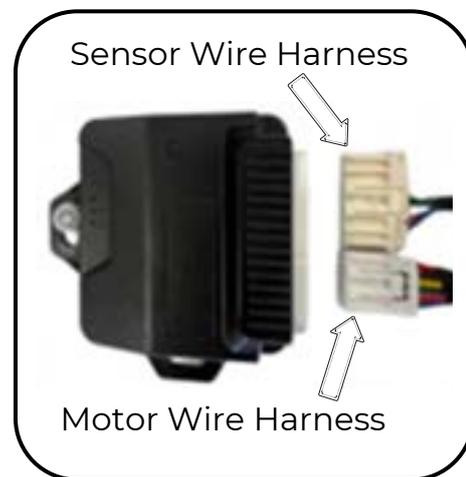
- The ECU should not be placed in the vehicle engine bay, as exposure to heat and moisture may cause damage to the unit.

Step 2

Installing control unit and wiring

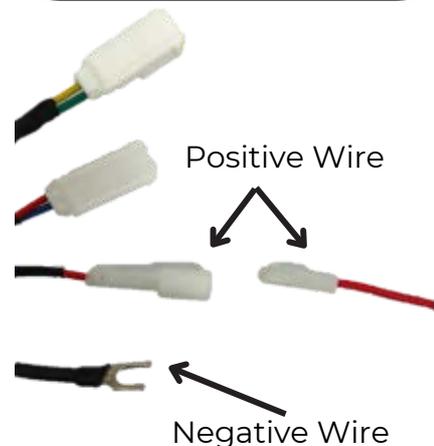
2.1 Connect the motor wire harness (small white power plug) and sensor wire harness (large white plug) to the control unit.

- Once connectors are plugged in, leave in Left-Hand floor area, tidy up at the end.



2.2 Connect the **negative (black) wire** from the motor wire harness to a ground point on the passenger side of the chassis, near where the control unit is mounted.

- Connect the **positive wire** from **Step 1.2** to the corresponding connector found on the motor wire harness.



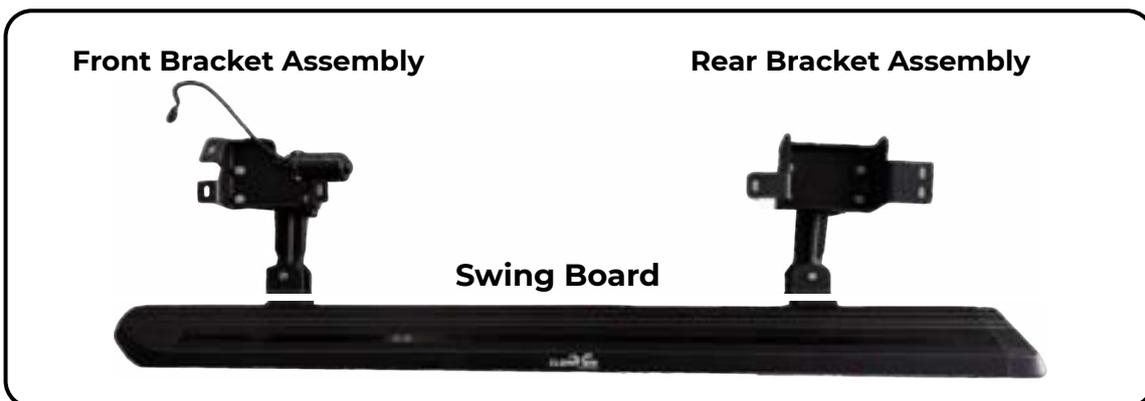
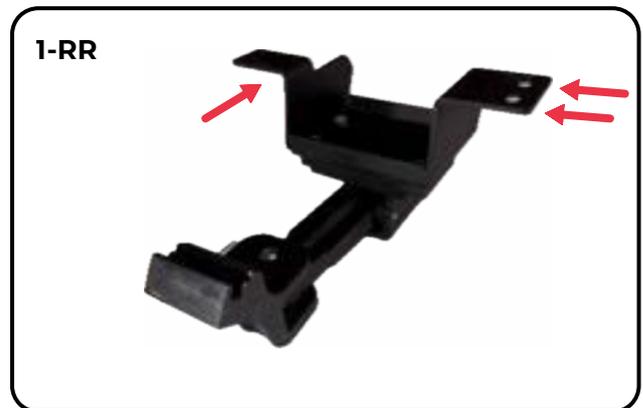
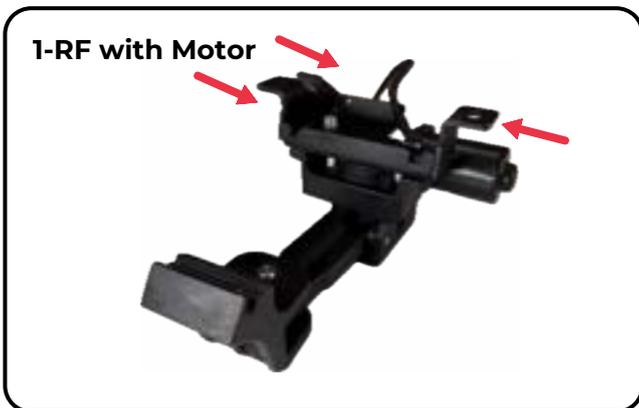
Step 3

Installing mounting brackets to vehicle

3.1 Locate and use the OEM mounting holes on vehicle's LHS (Left Hand Side) sill rail and RHS sill rail as shown in the images.

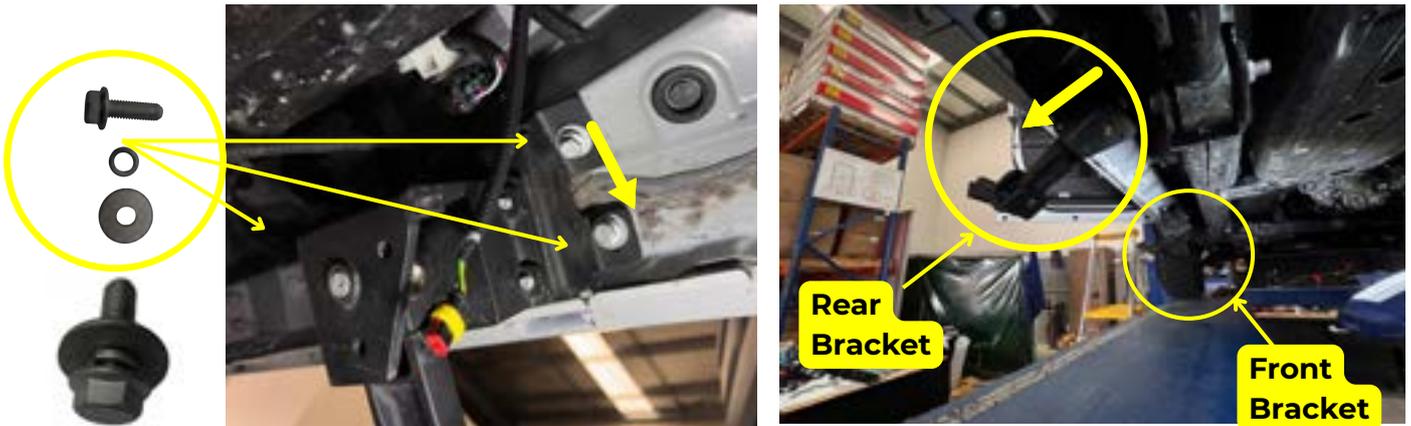


3.2 Remove the brackets and running board from the box. The images below show the components with outlined details.



3.3 Mount Front & Rear brackets to the underbody of the vehicle/Vehicle Sill Panel using supplied hardware (nuts, bolts and washers). *(Passenger side shown.)*

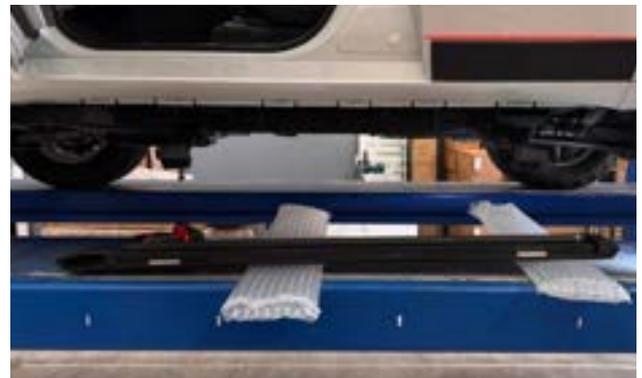
Note : *Make sure the brackets are pushed all the way forward and parallel to the sill*



Rear Bracket shown

3.4 Put the Air cushion pads on the hoist to rest the Swing board onto it.

- This ensures the Swing board is not damaged during assembly.



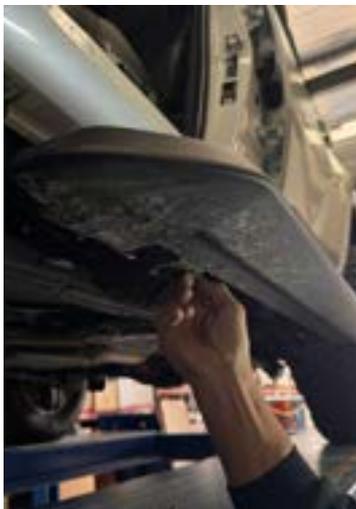
3.5 Position the channel onto the board, ensuring the channel (Rectangular bar) is seated in the groove with free movement.



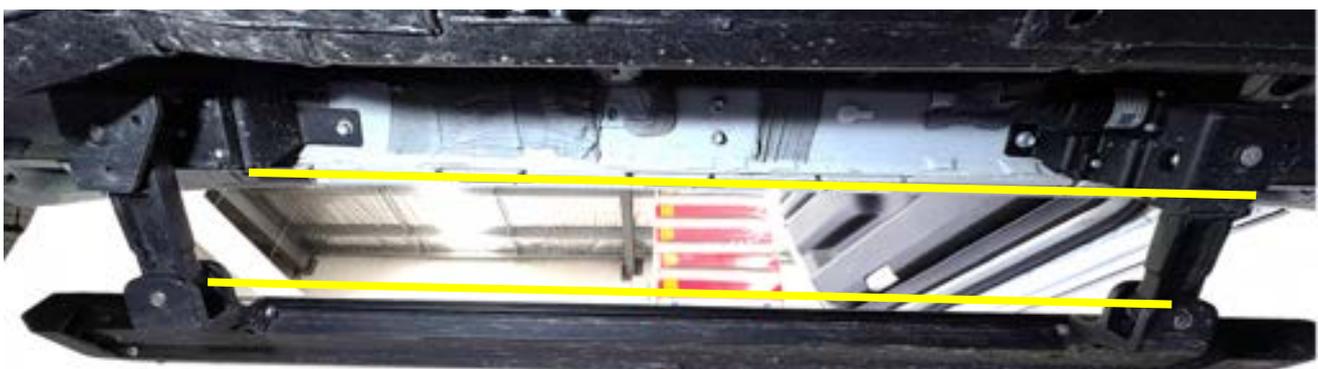
3.6 Approach the swing boards onto the brackets, ensuring the channel (rectangular bar) is correctly aligned and locked into the mounting bracket groove (as highlighted in yellow)



3.7 Once the swing board channel is correctly seated in the mounting bracket groove, hand-start the four screws (**M6 with M5 hex head**) as shown below. Tighten them just enough to allow the board to operate through a few test movements.



3.8 Make sure the Swing board is sitting parallel to the sill (yellow line).



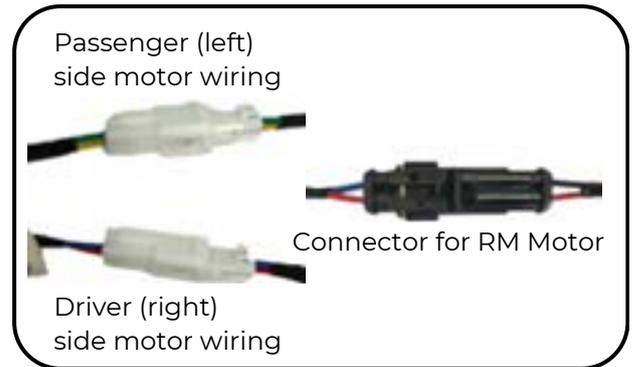
REPEAT above Steps 3.3 to 3.8 for Driver side

Step 4

Connecting Power to the motor brackets

4.1 Connect motor wires to corresponding connectors on motor wire harness. However all the wires are labelled with the Driver and Passenger side for reference.

- Passenger side wires are **green / yellow**, and Driver side wires are **red / blue**.



Passenger side PE Foam under foot liner

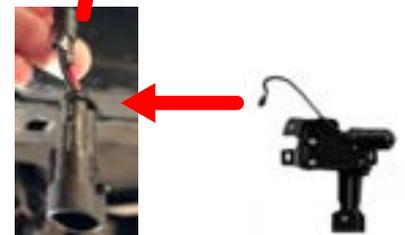


4.2 Remove the plastic clip with Trim tool and lift the PE foam.



4.3 Put a Cut in the Rubber Grommet under the PE Foam and bring Motor and power wire through Rubber Grommet.

4.4 Plug the motor wiring coming from the floor of the Rubber grommet and connect to the connector of the Front motor housing bracket.



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



4.6 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 wires or connectors to provide additional protection.
- Tidy up wiring to and from control unit.

4.7 Once all electrical connections are complete, check that the swingboard operates within the desired range. If the ends of the swingboard make contact with the vehicle body, adjust the channel using a mallet until proper clearance is achieved.



4.8 Once the swing board is aligned tighten the bolts and torque tight to 12 N/mm



Step 5 Installing running board

5.1 Open and close vehicle door to check function of sliding board.



5.2 In some cases, the 'U-shaped' packing washers may need to be installed between the bracket assembly and the vehicle's mounting points to correctly position the Clearview Swing Boards. If required, loosen the M6 bolts securing the top bracket to the vehicle to insert the washer.

5.3

- Cycle the swing board 2-3 times to allow motor bracket to settle.
- Check alignment and make sure the swing board is operating within the limit.



- **Normal Operation:** Clearview Swing Boards will deploy automatically when vehicle door is opened and retract when door is closed.
- **Manual Operation:** On occasions you may want the Clearview Swing Boards to be deployed even when vehicle door is closed to access vehicle roof. To do this, open vehicle door first so Clearview Swing Boards are deployed. Step your foot on the running board and close your vehicle door at the same time, the Clearview Swing Board should remain deployed. To reset, open and close your vehicle door again.
- **Reset Clearview Swing Boards:** Clearview Swing 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 Swing Boards are equipped with the safety cut off feature, we strongly advise to keep hands and feet away from moving components when Swing Boards are in operation.



Caring for your Clearview Swing Boards

- Whilst the motors don't require maintenance, regular routine cleaning will help ensure the continued smooth operation of your Clearview Swing Boards.
- Using a garden hose, rinse away any loose dirt and grime that has built up on the Swing Boards, their arms, and the areas around them.
- Fill a bucket with warm water and mild car wash, and gently clean the Swing 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 Swing Boards and their motorised arms with another soft towel.
- If your powder coated Swing 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 its 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 Swing Boards. If more than one person stands on a swing 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 powder coating. Once damaged, the surface is a lot more vulnerable to fading and failure.

Whilst 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 micro-fiber 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.
- If your powder coat is losing its shine, you can apply a thin layer of high-grade non-abrasive car wax after it's been cleaned. Wipe all the wax off once its 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.

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 Swing Board to the pressured water spray. High Pressure water washing of the Swing Boards can affect the electrical operation by forcing water into electrical connections. Although the Swing 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.

What is the fitting time?

Allow approximately 3 hours. However, this time estimate will be dependent on experience.

Can I install Swing Boards with my current side step?

No, any existing side steps will need to be removed in order to install the Swing Boards.

Where does your Swing Board mount to?

The Swing 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 swing 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.

Do I need to cut wires in my vehicle to install the Swing Boards?

The Swing Boards include suitable plugs for the vehicle, so no wires need to be cut.

How much weight can the Swing Board support?

The boards are rated to 300kg each side.

I already have something plugged into my OBD-II port, where am I going to plug the Swing Board harness to if it also uses the OBD-II port?

Swing Boards that obtain signal from vehicle OBD-II port will come with a harness that has a piggyback plug, so when the Swing Board is connected into the OBD-II port, there will still be a free OBD-II connector for ScanGauge or other equipment.

How does your Swing Board work?

The Swing Boards obtain door opening and closing signal from the vehicle, which is sent to a controller unit. The unit then sends a signal to the motors, which then opens and retracts the side boards.

How does your Swing Board obtain signal to deploy side boards?

The Swing Boards obtains door signal in several ways, depending on vehicle model. It can obtain signal from:

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

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

Can I use the Swing Boards as rock sliders when off-roading.

The Swing 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 dust proof and safe for complete water immersion.

Clearview® Swing Boards are designed and manufactured to the highest quality standards. We stand behind our Swing 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® Swing 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® Swing Boards are designed to be vehicle specific. When purchasing Clearview® Swing Boards, carefully select your product according to ADR compliance laws and vehicle specifications. Clearview® Swing Boards are not designed to be modified for convenient use on alternative vehicles. Alteration, modification, or manipulation of our products will void all warranty 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 for 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.

Clearview Accessories

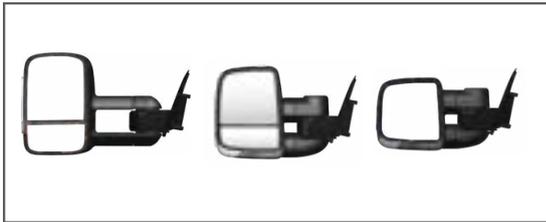
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Towing Mirrors



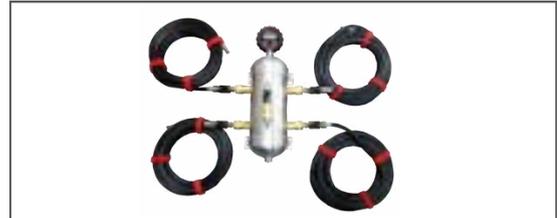
Power Boards & Swing Boards:



Rock Tamers



Tyre Spider



Easy Slides



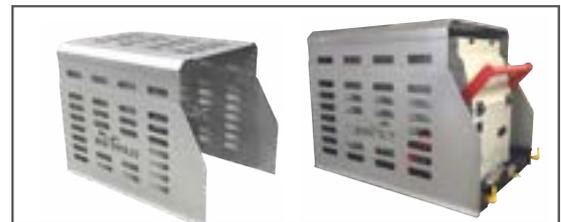
Power Slides



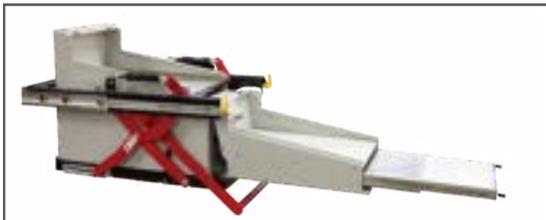
Expanda Slides



Fridge Cage



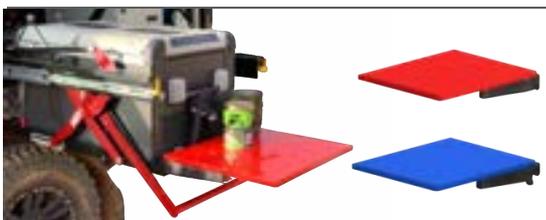
Pantry



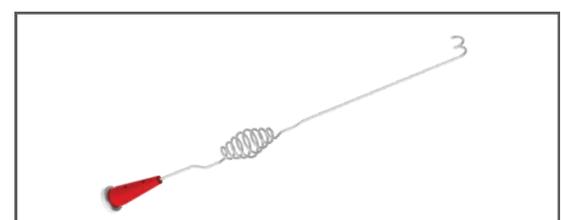
Cutlery Set



Clip on Trays



Cable Saver





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