TOWING MIRRORS FITTING INSTRUCTIONS

INCLUDES MSA POWER FOLD™ MODELS

TOYOTA PRADO 150 SERIES

2009-CURRENT

***POWER FOLD* MODELS** TM550 - TM551
***NON POWER FOLD* MODELS** TM500 - TM505



5 YEAR WARRANTY
ADR COMPLIANT
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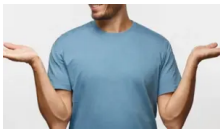
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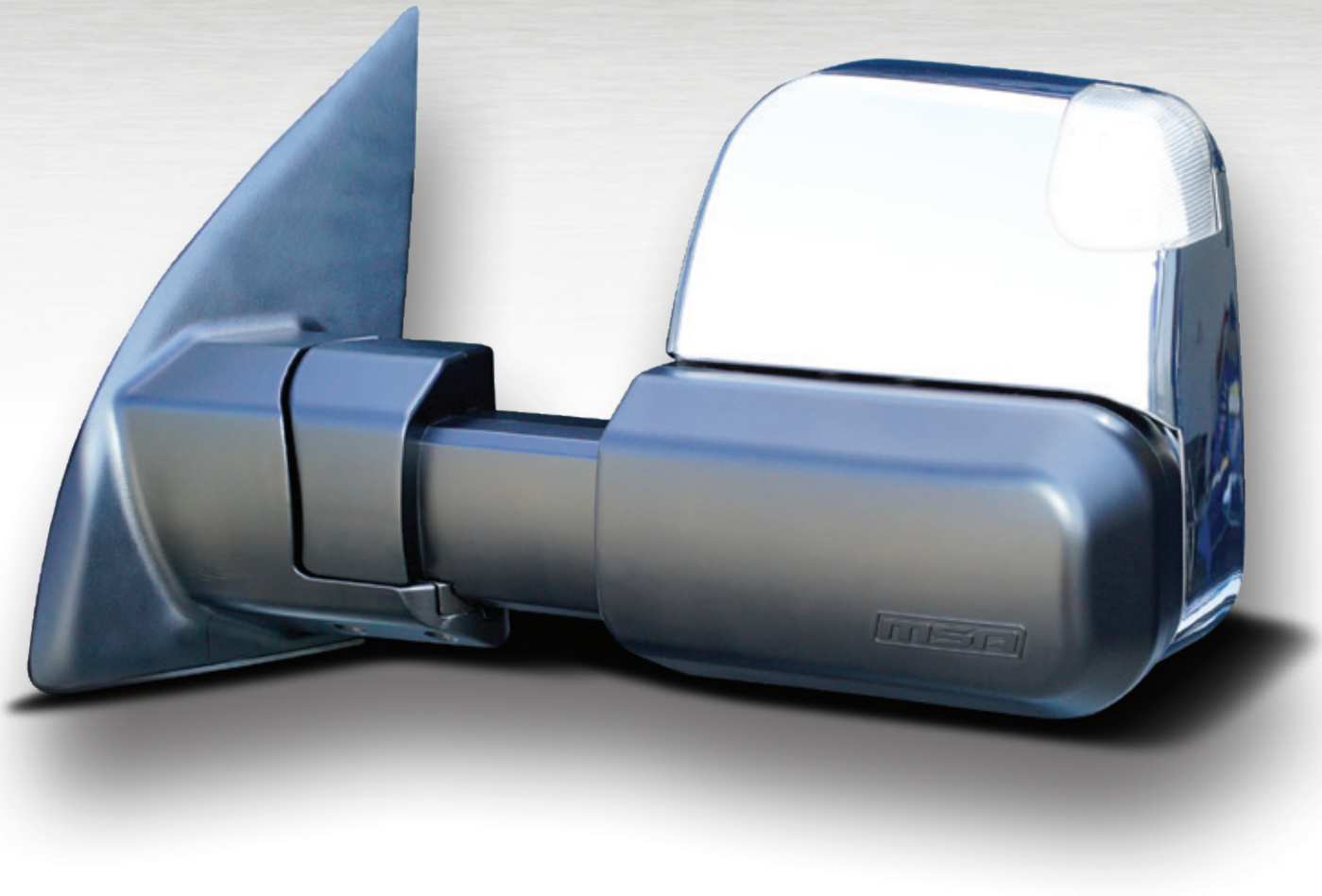
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CONGRATULATIONS ON YOUR PURCHASE OF A QUALITY MSA 4X4 TOWING MIRRORS!



MSA 4X4 Towing Mirrors are simple to fit as they mount onto your vehicle door in the same position as your existing mirrors, using existing holes and wiring.

Getting Started:
Here's what comes inside the box:

- **1 x** Left hand side mirror
- **1 x** Right hand side mirror
- **1 x** Complete fitting kit
- **1 x** Installation instructions

If anything is missing, please contact us via:
warranties@msa4x4.com.au

Here's what you need to know before you install your new MSA 4X4 Towing Mirrors:

MSA 4X4 Towing Mirrors do not offer certain original functions such as auto mirror dip when in reverse, camera and memory.

The mirrors are labelled "Left" and "Right", both on the packaging and on their bases. The Left mirror is installed on the Passenger's side and the Right mirror is installed on the Driver's side.



Image for illustration purposes only.

RECOMMENDED TOOLS FOR INSTALLATION

- Phillips Head Screwdriver
- Small Ratchet with 10mm Socket
- Trim Panel Removal Tools
- Torque Wrench

INSTALLATION STEPS

1 PREPARE THE VEHICLE

Prepare the vehicle by removing the interior door trims and factory mirrors, as per the vehicle manufacturer's instructions. Retain the three OE *(original equipment)* fastening nuts from the factory mirrors. They will be required if re-installing the factory mirrors onto this vehicle.

You will not need them for your new **MSA 4X4 Towing Mirrors** on this model.

Trace the wires from the original mirror located in the vehicle door and disconnect any connected plugs.

Remember to follow this same route when installing the **MSA 4X4 Towing Mirrors.**







PLEASE NOTE

Some aftermarket wind deflectors are affixed to the original mirrors and may need to be removed and re-fixed if they affect the assembly process, these can be re-fixed once the mirror is on.

2 INSTALLING THE TOWING MIRRORS

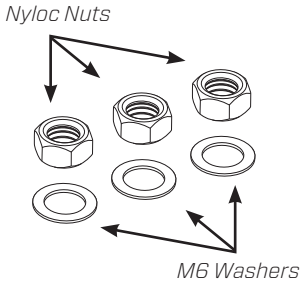
The installation process is easier if you can get someone to help you, especially with holding the mirror into position.

Holding the mirror in line with the original bolt holes from the outside you will need to use the three supplied M6 washers and nyloc nuts to secure to the pre fixed mirror bolts.

Carefully place all pre fixed studs through the door. Start the top bolt off and secure about half way up the thread. Once all three nuts are started, double check that the rubber surround on the door is not stuck under the mirror base and the rubber seal provided is sitting flush against the mirror and door frame.

Once you are happy that your mirror and rubber are sitting correctly work your way around tightening the 3 bolts until they are securely tightened. Tighten to 8nm.



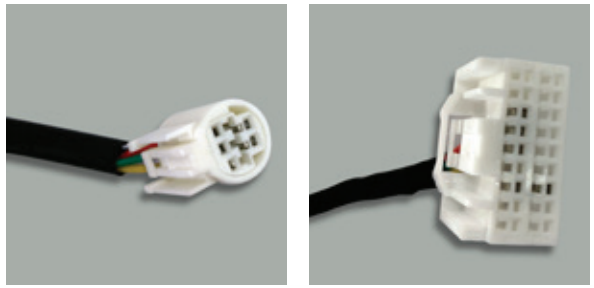




3 PLUG & PLAY

MSA 4X4 Towing Mirrors are supplied with a plug and play loom that will directly plug into the original plug located in your door, run your new **MSA 4X4 Towing Mirror** wire the same way as your original one, secure this wire and plug together, it will only go in one way.

Please ensure this clicks firmly into place.



We supply different plugs to cater for various LandCruiser models. Please only use the plug that fits the existing OE harness for the vehicle.

TIP *Ensure that you run any excess in the wire in such a way that it does not get caught up or damaged behind the door panel.*

4 RE-INSTALLING DOOR TRIMS

Reinstall the door trim, as per manufacturer's instructions.

PLEASE NOTE

Check your mirror has complete function prior to final re-installation of the door trims.

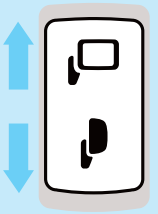
5 LET'S GO!

Adjust your mirrors to suit your viewing angle and preferences. Vertical and horizontal adjustment caters to drivers of differing heights and seated positions.

When rotating the mirror into the horizontal position, the mirror's actuator automatically adapts, allowing you to retain the standard adjustments (up, down, side to side) from your vehicle's standard mirror adjuster.

PLEASE NOTE

For Power Fold models, the mirror head may be loose before installation. The mirror head needs to be electronically folded and unfolded, a minimum of x3 times, after the mirrors are installed to help synchronise.



MIRROR FOLD CONTROLLER

Works with the original fold in and out switch

As a safety feature these mirrors are designed to manually fold inwards if they come into contact with objects outside the car. Please avoid unnecessary manual folding of the mirrors, as it can prematurely wear down the gear set within the motor.



Photo is an example only

FITTED MIRROR DIMENSIONS



POSITION 1
Fit into garages and tight parking spaces



POSITION 2
Perfect for towing camper trailers, horse floats and smaller vans



POSITION 3
Perfect for tray backs and wider service bodies



POSITION 4
Perfect for towing large vans or wider loads

PLEASE NOTE

All dimensions are taken from the widest part of the mirror body on that position.

			Power Fold Model
4	Towing Extended Position	2530mm	2550mm
3	Standard Horizontal Position	2380mm	2420mm
2	Standard Driving Extended	2310mm	2330mm
1	Standard Driving Position	2160mm	2210mm



MSA 4X4 WARRANTY

ADR COMPLIANT

TOWING MIRRORS



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Arundel QLD, 4214

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Phone:
+61 7 5594 6664

Email:
warranties@msa4x4.com.au

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msa4x4.com.au

All MSA 4X4 Accessories products are designed and manufactured to the highest quality standards to perform as they should. We stand behind our Driving Mirrors with a 5-year Manufacturer's Warranty.

All claims under this warranty should be made by returning the product at your cost to MSA 4X4 Accessories Pty Ltd, 43 Harrington Street, Arundel, QLD 4214, with the detail of the fault, proof of purchase, proof of identification and vehicle fitment details where relevant. 5-year manufacturer's warranty applies to the original purchaser only.

If we determine that an MSA 4X4 Towing Mirror is defective in materials or workmanship during the 5-year Warranty, we will either repair or replace the product. Repair or replacement is solely at the discretion of MSA 4X4 Accessories Pty Ltd.

This warranty does not apply to failure or damage caused by incorrect or faulty fitment, accidental or intentional damage, misuse or abuse, 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 MSA 4X4 Accessories Pty Ltd. No charges will be accepted for external labour or materials. MSA 4X4 Accessories 5-year warranty does not cover any scratches, cracks or chips.

MSA 4X4 Accessories products are designed for lifestyle applications. Due to the harshness of the mining environment, MSA 4X4 Accessories products used in mining applications that may be operating outside of their environmental and technical specifications, are therefore excluded from the 5-Year Warranty. MSA 4X4 Accessories products used in mining applications are warranted for up to 1 year.

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.

Maintenance of MSA 4X4 Towing Mirrors:

To help maintain the MSA 4X4 Towing Mirrors warranty, ensure that no harsh chemicals are used when washing the mirrors. Truck wash is ***NOT*** advisable. When a vehicle, fitted with MSA 4X4 Towing Mirrors, travels through coastal areas it is important to clean the mirrors regularly, as salt can damage the power coated finish. MSA 4X4 recommends using a soft sponge and a regular car washing liquid diluted with water, for cleaning. Rinse well and dry with a soft towel or microfibre cloth.



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TM500-505, 550-551 0923