# TOWING MIRRORS
# FITTING INSTRUCTIONS

AUSTRALIAN OWNED AND OPERATED SINCE 2000

## JEEP GRAND CHEROKEE 2010-12/2022

POWER FOLD **TM1350-TM1353**
NON POWER FOLD **TM1300-TM1307**



MSA 4X4 ACCESSORIES

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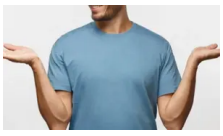
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# CONGRATULATIONS

## ON PURCHASING A QUALITY SET OF MSA 4X4 TOWING MIRRORS!



**MSA 4X4 Towing Mirrors are simple to fit as they mount onto the vehicle door in the same position as the 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**

# IMPORTANT INFORMATION

## WHAT TO KNOW BEFORE INSTALLING MSA 4X4 TOWING MIRRORS:

**MSA 4X4 Towing Mirrors** are labelled 'Left' and 'Right', on the packaging and on the mirror bases. The Left mirror is installed on the Passenger's side and the Right mirror is installed on the Driver's side.

### RECOMMENDED TOOLS FOR INSTALLATION

- PHILLIPS HEAD & FLATHEAD SCREWDRIVER
- SMALL RATCHET WITH 7, 8 & 10MM SOCKET WITH EXTENSION BAR
- TRIM PANEL REMOVAL TOOLS
- TORQUE WRENCH




Image for illustration purposes only.

# INSTALL STEPS

## 1 PREPARE THE VEHICLE

Remove the interior door trims and the original factory fitted mirrors as per the vehicle manufacturer's instructions. Assistance, holding the mirror during the removal process may be required to avoid any accidental damage to the original mirrors and/or vehicle.

Retain the OE (original equipment) fastening nuts and washers from the factory mirrors. They will not be required to install the new **MSA Towing Mirrors** on this model vehicle. However they will be required if reinstalling is ever required.

Trace the wires from the original mirror, located in the vehicle's door, and disconnect any connected plugs. Follow this same route when installing the new **MSA Towing Mirrors.** Taking a photo of the original wire positioning before disconnecting may be helpful.







**PLEASE NOTE**

SOME AFTERMARKET WIND DEFLECTORS FITTED WITH THE ORIGINAL MIRRORS MAY AFFECT THE NEW MIRROR INSTALLATION PROCESS. IF SO REMOVE THEM, MODIFY AND REFIT AFTER THE MIRROR INSTALLATION IS COMPLETED.

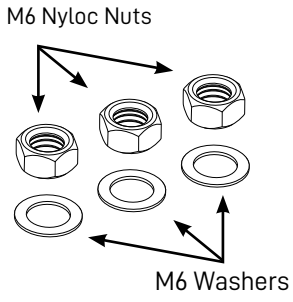
## 2 INSTALLING THE TOWING MIRRORS

Assistance, holding the mirror during the installation process may be required to avoid any accidental damage to the new **MSA Towing Mirrors** and/or vehicle.

Use the supplied **Nylon Nuts** and **Flat Washers** to secure the **MSA Towing Mirrors** into place. From the outside align the pre fixed studs on the mirror with the original bolt holes in the vehicle door. Pass the studs through the holes and attach the **Flat Washers** and **Nylon Nuts.** Secure the nuts about half way up the thread.

After all the bolts have been started, double check the rubber surrounding the door is not caught under the mirror base and the rubber seal provided is sitting flush against the mirror and door frame.

Finally, secure and tightened all the bolts to 8nm.








# MSA TOWING MIRRORS

## 3 PLUG & PLAY



**MSA Towing Mirrors** are supplied with a plug and play loom that plugs directly into the original plug located in the vehicle door. Run the new **MSA Towing Mirror** wire in the same way as the original mirror wire. Secure the wire and firmly click the male and female plugs together. They will only go together one way. Do NOT force.

### 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. RECONNECT THE VEHICLE BATTERY.

## 4 RE-INSTALLING DOOR TRIMS

Re-install 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.

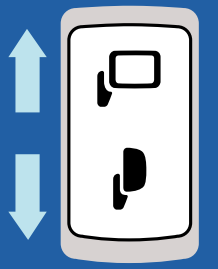
## 5 LET'S GO!

Adjust the mirrors to suit to the driver's viewing angle and preferences. The vertical and horizontal adjustments cater to drivers of differing heights and seated positions.

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



# FITTED MIRROR DIMENSIONS

1



## POSITION 1

Fit into garages and tight parking spaces

2



## POSITION 2

Perfect for towing camper trailers, horse floats and smaller vans

3



## POSITION 3

Perfect for tray backs and wider service bodies

4



## POSITION 4

Perfect for towing large vans or wider loads

| | | Non Power Fold | Power Fold |
|---|---|---|---|
| 4 | Towing Extended Position | **2550**mm | **2595**mm |
| 3 | Standard Horizontal Position | **2410**mm | **2475**mm |
| 2 | Standard Driving Extended | **2365**mm | **2415**mm |
| 1 | Standard Driving Position | **2230**mm | **2310**mm |




**PLEASE NOTE**

ALL DIMENSIONS ARE TAKEN FROM THE WIDEST PART OF THE MIRROR BODY ON THAT POSITION.

# MSA 4X4 WARRANTY







**ADDRESS:**
43 Harrington Street,
Arundel QLD, 4214

ABN: 50 150 429 566

**PHONE:**
+61 7 5594 6664

**EMAIL:**
warranties@msa4x4.com.au

**WEBSITE:**
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.




# MSA
## 4X4 ACCESSORIES

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TM1300-TM1307 TM1350-TM1353 0926