

# Superior Engineering Installation Instructions

*Superior*  
**ENGINEERING.COM.AU**  
PREMIUM 4X4 ACCESSORIES

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**Part Description: NITRO GAS SHOCKS**  
**Part Number: MULTIPLE PART NUMBERS**

**NOTE:** Read and understand these Installation Instructions before beginning the installation process. Retain these installation Instructions for future reference.

It is recommended this item is installed by a Qualified Person.

**WARNING:** Tampering with or removing any part of the shock including the valve cap will void the warranty of the shock.

### CAUTION

Please ensure all bolts are tightened to correct torque setting with 263 Loctite. Recheck in 500km

Size	Torque (Nm)	Torque (ft-lb)
Shock pin	55	40
M10	49	36
M12	85	64

1. Start with the vehicles front and rear wheels chocked and the vehicle in gear or park with the hand brake applied.
2. Remove the existing shocks as per vehicle service manual. (For eye –eye shocks retain the OE fasteners that attach the shock to the chassis and diff mount’s as these will be reused.)

### 3. PIN SHOCK

Fit one washer and shock bush to the shock pin. Then fit the shock pin to the mounting position on the vehicle. Then fit the rest of the bush kit to the shock pin Make sure the bush kit is fitted correctly (As seen in figure 1 the red arrow indicates where the OE mount goes.) tighten the nut on the shock pin until the shock bushes are compressed. Do not over tighten till the bush is bulging out and deformed.

4. Make sure the body of the shock is at the at the bottom (As seen if figure 2 & 3)

### 5. EYE SHOCK

Fit the eye of the shock to the factory shock pin mount. Making sure to reuse the factory washers and bolts/nuts in the same configuration as when removed.

6. Make sure the body of the shock is at the at the bottom (As seen if figure 2 & 3)

### WARNING

**Make sure the vehicle is at ride height before tightening up any suspension component. Not doing this may cause the product to prematurely fail.**

7. Tighten all bolt/ nuts to correct torque settings making sure all have Loctite on them. If the vehicle is on a hoist make sure to lower the car on to the ground before tightening the shocks.
8. Moving the suspension through its full range of movement (fully opening and closing the shock) make sure the bump stop on the vehicle hit’s before the shock is fully compressed. If the shock fully closes before the vehicle’s bump stop hit’s the height of the vehicle’s bump stop will need to be adjusted.



Figure 1: Correctly Fitted Bush Assembly



Figure 2: Nitro Gas Pin Style Fitted



Figure 3: Nitro Gas Eye Style Fitted