

Madock Engineering - Y62 Patrol Rear Diff Drop

Installation Guide

We offer fitting in Bayswater Victoria, any DIY fitments are at installers' risk

The Madock Engineering Diff drop lowers the rear diff 40mm and moves it forward 13mm to best align axles and reduce stress applied to cv joints.

Step 1

- Lift car onto hoist and position transmission jack under diff centre
- If vehicle is fitted with a long range tank it is to be removed
- Undo 2 brackets holding handbrake lines to the side of the diff centre and 2 bolts upto k frame
- Undo CV flanges to the diff and tie up axles out of the way (take care not to damage cv boots)
- Support diff and undo four mounting bolts (2 vertical into K frame) and 2 studs seen from behind car through the large rubber bushes behind the diff.
- Ensure studs are fully removed from the diff housing.
- Lower Diff, watch for hoses and electrical plugs pulling tight and undo as required

Step 2

- Fit four bolt plate to the back of the diff casing (test fit countersunk bolts thru to ensure bolts are free and not bottoming out before tightening)
- Apply Loctite 263 to countersunk bolts and tighten.

Step 3

- Loosely bolt front diff mount bracket to chassis using Loctite do not tighten

Step 4

- Lift diff and install bolts through the rubber bushes (**2 spacer washers per side required**)
- Refit any hoses, wires or breathers as diff is lifted into place (take your time this bit is fiddly)

Step 5

- Lift front of diff up. Use bolts to guide the location of the bracket into the chassis. Nip up with open end spanner.
- Remove guide bolts and use flat ring spanner, ratchet spanner etc to tighten bolts into Kframe.
- 2 lower bolts, unsure factory cover washers are reused

Step 6

- Refit CV shafts
- Refit park brake cables to diff
 - o Both side brackets need bending towards centre of the car to create clearance for axle flanges (see photo)
 - o Rotate wheels and check for clearance
- Refit AUX fuel tank if required.
- Car does **NOT** need a wheel alignment after fitment.

***IF IN DOUBT ASK BEFORE UNDERTAKING ANY WORKS. LOCTITE TO BE APPLIED TO ALL BOLTS**

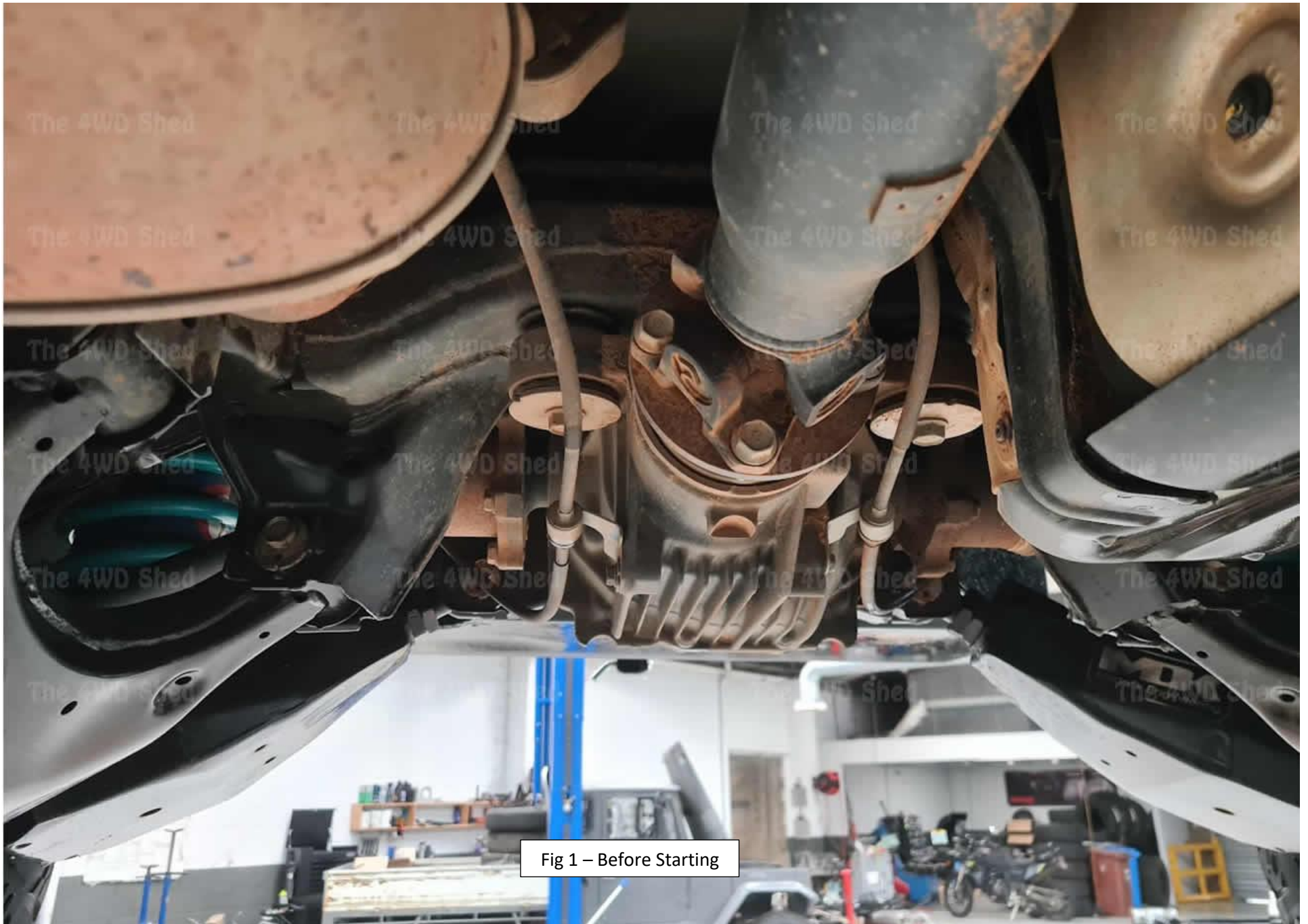


Fig 1 – Before Starting

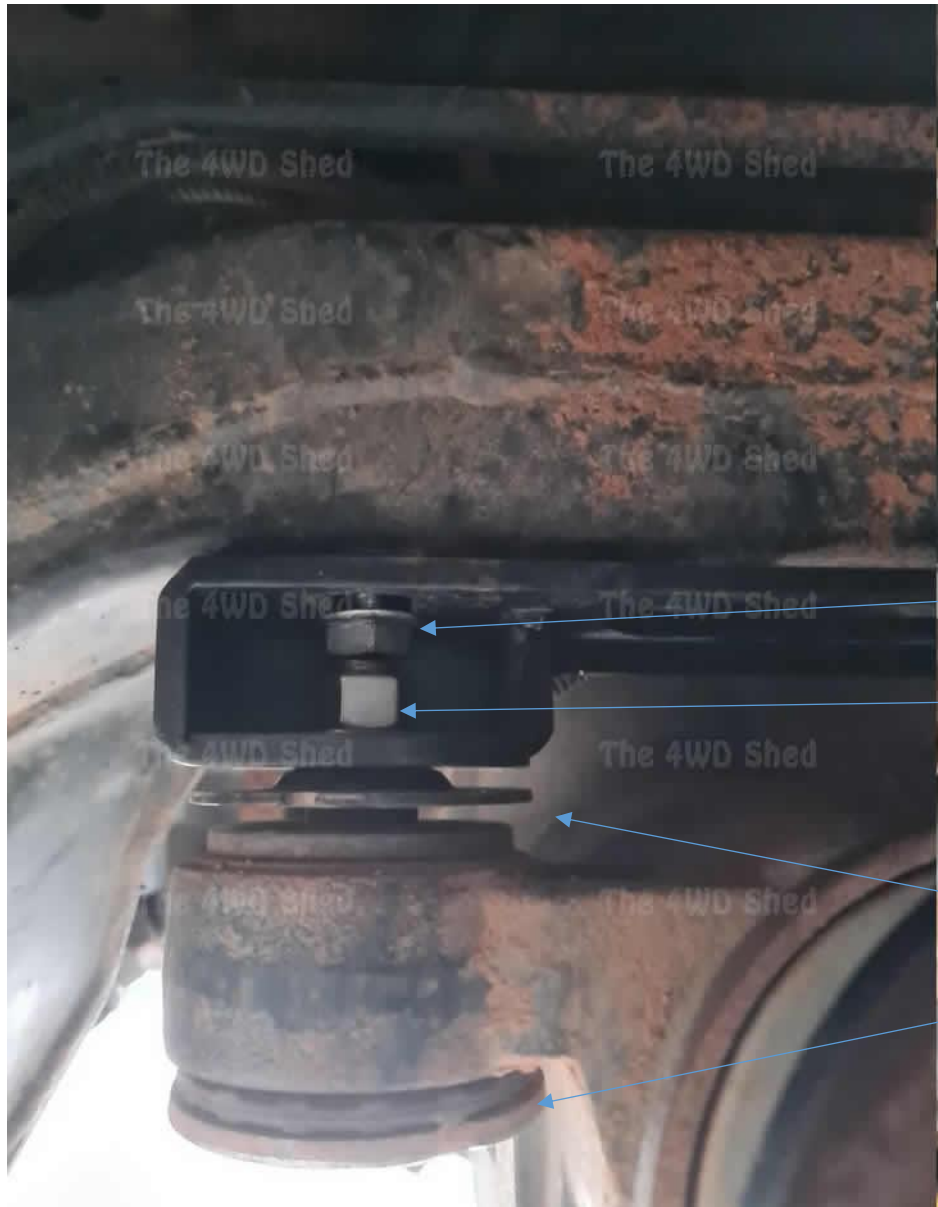




Fig 4

Fig 5





Keep this bolt loose until
bracket is aligned in chassis

Use this bolt to
align bracket in
chassis

Re-Use Factory
Washers

Fig 6



Fig 7

