SUSD – Manual / Fitting Guide / Instructions

Thank you for purchasing the SUSD suspension leveling kit. Please follow this fitting guide for best practices.

Step 1 – Lift:

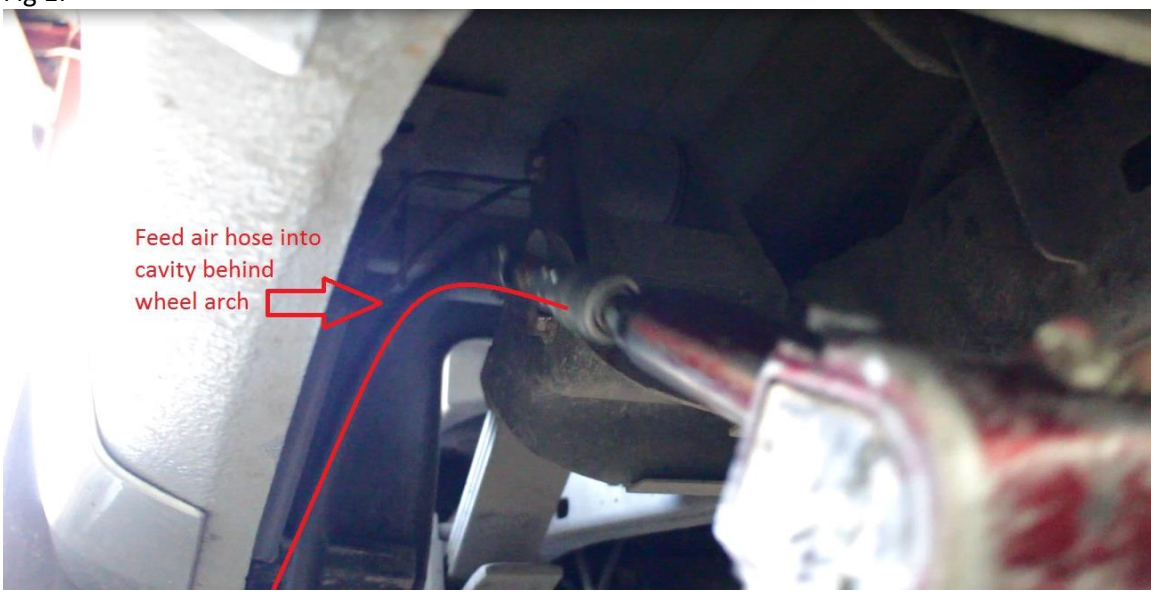
Lift the back of the vehicle by the rear chassis cross member with a jack to take the weight off the rear suspension. By lifting from the rear chassis cross member this allows even lifting on both left and right sides of the vehicle. This requires a high lifting trolley jack, vehicle lift, we use an overhead crane and lift on the towbar.

Alternatively you can use the vehicles own jack and lift one side at a time – although this makes it difficult to fit

Step 2 – Remove existing suspension shackles:

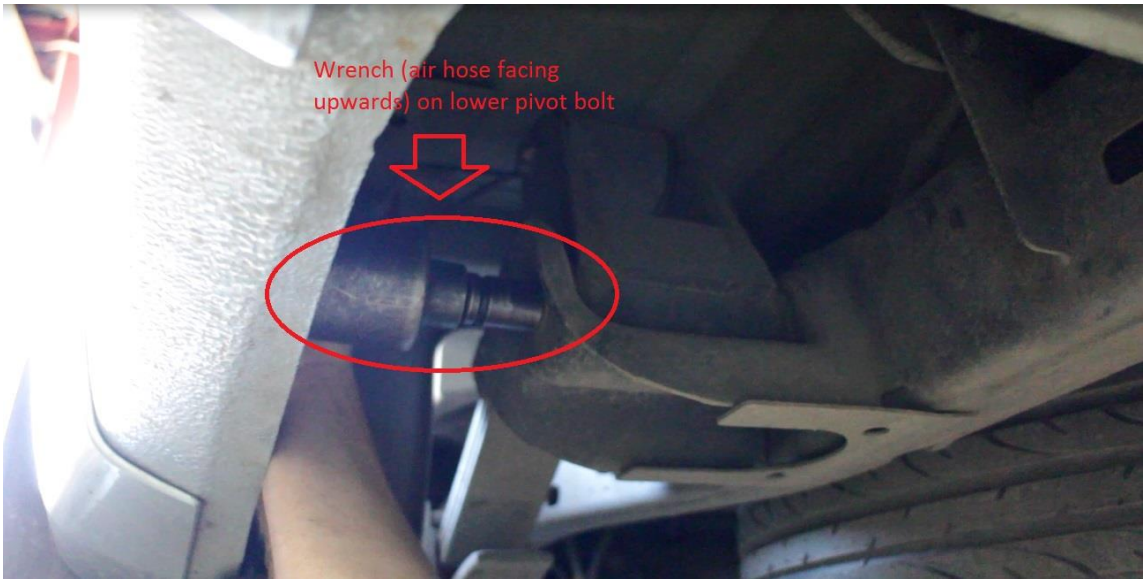
- Using an impact wrench with a compact 18mm socket loosen bottom pivot bolt. (Note the impact wrench must have a minimum torque rating of 300nm – smaller electric wrenches or spanners won't have enough torque to unwind) To fit the wrench in place – first slide the hose up into the cavity behind the wheel arch Fig 1.

Fig 1.



- Then lift the wrench (air hose facing upward) in to the space and connect to bolt Fig 2. Ensure the wrench is in reverse, and unwind main pivot bolt till loose (no more than 3 turns, as the unwinding bolt can force the wrench into the body panel)

Fig 2.



- Then loosen the top pivot bolt using the impact wrench (air hose facing downward this time) and an 18mm ring spanner on the nut Fig 3.

Fig 3.

- Then unwind both bolts from their bushings, using a ring spanner or more compact wrench. Be sure to ensure the bolts unwind freely or adjust the jack height if necessary to unload the bolts. Fig 4. (Keep clear of spring when removing bolts, as the leaf spring may be under tension and could move suddenly catching fingers – correct adjustment of jack height won't allow this to happen)

Fig 4.

- Remove original suspension bracket Fig 5.

Fig 5.

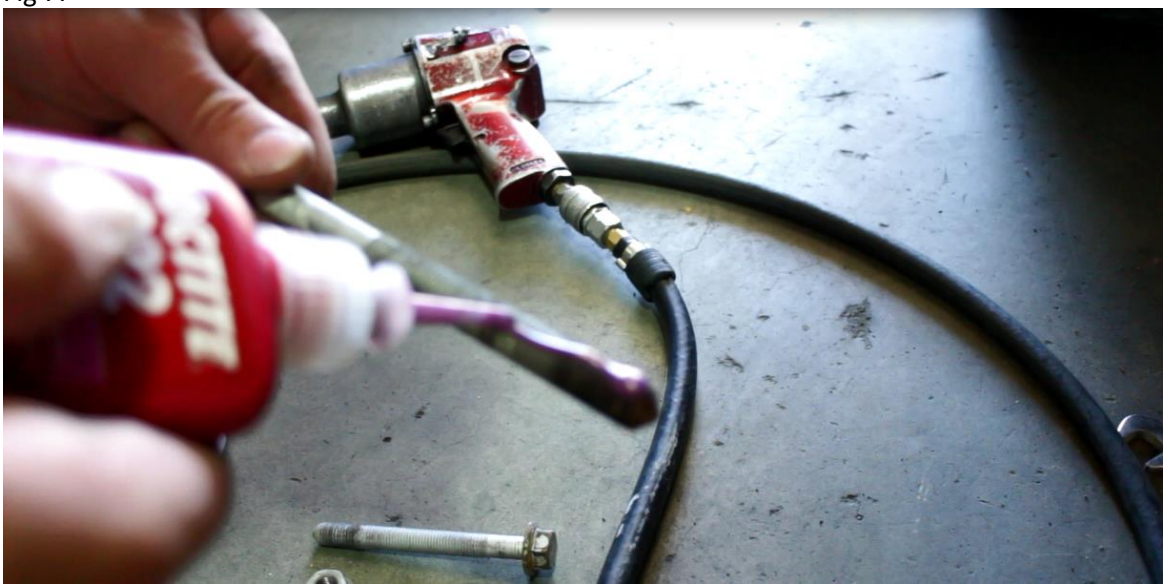
<u>Step 3 – Fit the SUSD suspension brackets:</u>

- Insert the SUSD suspension link from the front of the chassis as shown in Fig 6. Slide it into chassis mount first (lower pivot bolt). It may require to be tapped into place with a soft hammer. A screw driver or prybar is handy for aligning the holes.

Fig 6.

- Clean any grease or oil from the original lower pivot bolt, and put a generous amount of thread locking compound (such as Loctite 243 or similar) on the thread Fig 7.

Fig 7.



- Screw the lower pivot bolt back in place, hand tight. Then tilt the SUSD suspension link backwards to align the upper pivot bolt hole with the rubber bushing hole in the end of the leaf spring. Use a soft hammer, prybar or screw driver to help make aligning the holes easier. Fig 8.

Note: The newly installed SUSD link can sometimes appear out of alignment with the leaf spring compared to the original link. This is due to wear of the bushings in the original link and simply requires the spring to be levered back into place to fit the SUSD link (which is set to the factory settings).

Fig 8.

- Then apply the thread locker to the upper pivot bolt and install, a soft hammer may come in handy to tap the bolt in. Fig 9.

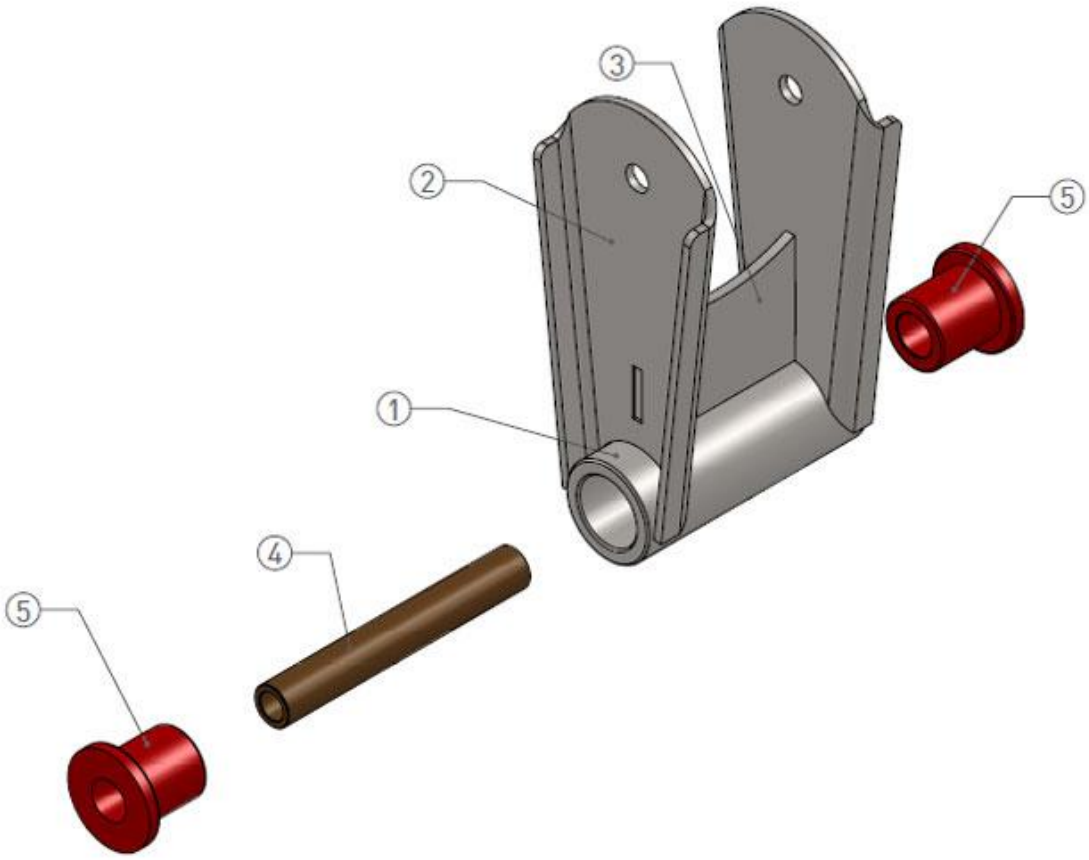
Fig 9.

- **Now use the impact wrench to tighten both upper and lower bolts, double checking with an 18mm ring spanner.**

Now repeat steps 2 and 3 for the opposite side of the vehicle

- Once fitted to both sides, lower the vehicle and enjoy – you're ready to go!

Exploded diagram/parts list



Item Number	Part No	Description	Quantity (per side)
1, 2, 3	R-4901	Fabricated suspension link	1
4	R-4701	Pivot axle	1
5	E-4801	Bush	2

THIS FITTING IS FOR RECOMMENDATION PURPOSES ONLY AND SUSD IS NOT LIABLE FOR DAMAGE CAUSED BY INCORRECT FITTING

www.susd.com.au