



Subashifter Vanagon

Fitting and instructions

1. Contents of kit

The Subashifter Vanagon consists of 7 items :



1. Shifter extender
2. M12 x 1.25 Bolt & washer to mount VW Vanagon ball onto shifter extender
3. Laser cut mounting bracket to be mounted onto VW transmission mount
4. 3 x M8 bolts, 2 x rivnuts, 1 x washer & 1 x nylock nut to secure the laser cut mounting bracket
5. Section of 16mm steel rod

2. If your VW Vanagon shift ball, socket, rear shifter bushing and brackets are not in good condition, order these parts :



- a. VWC-251-711-F

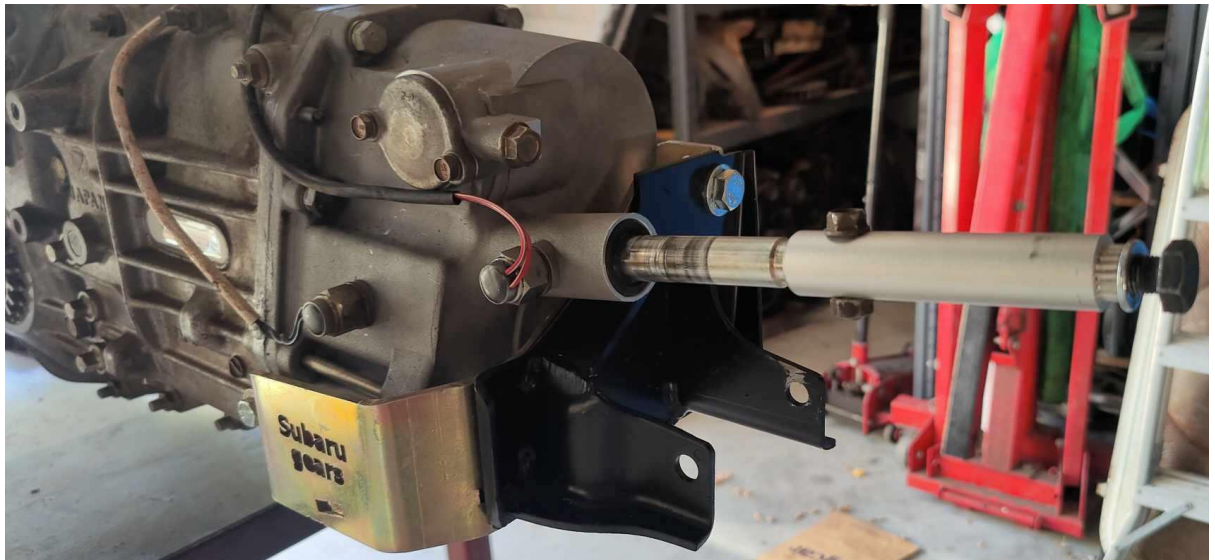


- b. VWC-251-711-973



- c. VWC-251-711-207-E & VWC-251-711-198-D

3. Push the shifter extender onto the end of the Subaru transmission shift rod and secure with the stock Subaru double roll pins or bolt and nylock nut :



4. After your engine and transmission are installed into the vehicle, the shift rod extender should protrude forwards through the access hole you have cut in the transverse beam.
5. Tap both rivnuts into the two holes in the VW transmission mount :

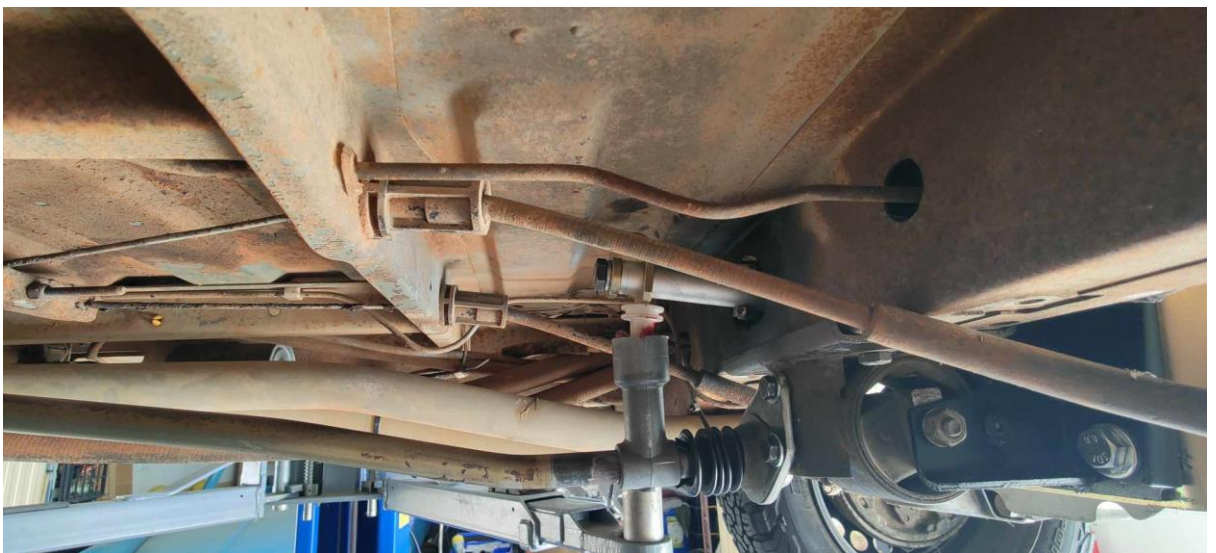


6. Align the serrated cutouts in the VW ball with the serrated cutouts on the shifter extender and press the VW shift ball onto the shifter extender. It should face directly downwards. Retain with the supplied M12 bolt and washer :



7. Shorten the VW Vanagon rear shift rod by removing 365mm from the straight section. Insert a section of 16mm OD tube between the remaining shift rod sections so that it is a single shift rod again. Do not bolt or weld the shift rod yet – it will need to be 'clocked' in the correct direction for everything to shift correctly.

8. Slide the VW Vanagon shifter socket onto the rear part of the rear shift rod. Do not fit the retaining split pin.
9. Assemble the rear shifter bushing and brackets onto the rear part of the shift rod. Fit into the laser cut mounting bracket with 1 x M8 bolt, washer and nylock nut on the outer hole. Then mount this assembly to the VW transmission mount rivnuts with the 2 x M8 bolts and washers, whilst sliding the VW Vanagon shifter socket onto the VW Vanagon shifter ball.



10. Select 4th gear on the Subaru transmission – this should have the Subaru shift rod in the center of it's gate and pushed towards the front of the Vanagon. The ball and cup should be vertical.
11. Select 4th gear on your shifter in the cabin – center the gear lever and pull it back towards the rear of the Vanagon. Check under the front floor of the Vanagon that the shifter is centered in the shift box and pushed forward (it's pulled back in the cab so pulled forward in the shift box).
12. Clock the two parts of your shift rod so that the bends and straights of the rods all fit together well.
13. Punch the hole location to retain the VW Vanagon shifter socket and double mark the join of the two parts of the VW rear shift rod.
14. Drill the retaining pin hole and fit the retaining pin.
15. Spot weld or clamp the two halves of the VW rear shift rod together.
16. Check that all gears can be selected smoothly.
17. If all gears select smoothly, remove the VW rear shift rod and fully weld or bolt together.
18. If gears do not select smoothly, cut through the spot weld, re-align the VW rear shift rod until all gears can be selected smoothly. Now weld or bolt together permanently.