



Big Shot Shifter V2.0 Installation Instructions

Thank you for purchasing the Van Cafe Big Shot Shifter V2.0! A whole new world of smooth cruising and adventure awaits you. If you have any questions regarding this install, please feel free to reach out to our crack support team at support @vancafe.com.

As always, we love to hear from you! Please consider leaving a review at the following link:

<https://vancafe.com/big-shot-shifter-version-2-0/>

NOTE: We recommend adjusting your shift rods and shifter to factory specifications using the Bentley factory service manual prior to installing the Big Shot Shifter V2.0. This will ensure that your front to rear shift rods are in shape and ready to go after you complete



Step 1: Remove the original gear shift knob by twisting counter clockwise. Slide the shift boot up and off the shifter shaft.



Step 2: Under the front of the van, remove the 19mm bolt that secures your spare tire clamshell.



Step 3: Lower the clamshell and remove the spare tire.



Step 4: Remove the four nuts (10mm) that retain the original shifter assembly to the lower shifter box.



Step 5: Remove the lower shifter box to expose the shift assembly to shift rod connection.



Step 6: Loosen the nut from the through bolt on the shifter assembly to shift rod connection with 10mm and 13mm wrenches.



Step 7: Remove the through bolt and set it aside. Remove the small black plastic bushings from the lower hole of the shifter assembly. If you're not replacing them now, you will re-use them in your new Big



Step 8: From inside the van, carefully lift the original shifter assembly from underneath the carpet. Be careful not to get grease on the interior!



**Step 9: Unpack your new Big Shot Shifter V2.0 on a clean workspace.
Locate the base plate.**



Step 10: Install an M6 x 20 buttonhead screw into each of the four corner holes of the base plate. Run the screws down until snug against the plate.



Step 11: Attach the Big Shot Shifter base to the base plate using the remaining hardware.



Step 12: Once you have all eight screws hand tight, snug them with a 4mm allen head key.



Step 13: Back at the van, align the studs in the bottom of the base plate to the holes in the van floor. Drop the assembled Big Shot Shifter V2.0 into place.



Step 14: With clean hands, lift the carpet over the base plate to hold it while you continue work back under the van.



Step 15: Lightly grease the plastic shift rod bushings you removed earlier (or the new ones you purchased from Van Cafe). Insert them into the bottom of the Big Shot Shifter V2.0.



Step 16: Note the orientation of the lower Big Shot Shifter assembly. The larger side of the block and base should be on the passenger-side (right side) of the van. Lightly grease the through bolt and insert it through the shift rod and lower Big Shot Shifter assembly.



Step 17: Install the nut on the throughbolt.



Step 18: Tighten nut and bolt to the shift rod with your 10mm and 13mm wrenches. Note: Overtightening this connection may cause stiff shifting and premature wear of the plastic shift rod bushings.



Step 19: With a sharpie, mark the upper shaft and lower block assembly of the Big Shot Shifter V2.0 in a straight line in order to establish orientation. This will help with any adjustments need to make when clocking the shifter shaft for best ergonomic placement.



Step 20: Temporarily install two of the lower shift box nuts to the studs coming down through the floor from the Big Shot Shifter base plate.

Step 21: Tighten the lower nut on the Big Shot Shifter against the lower block assembly with a 19mm wrench.



Step 22: Clean your hands and then sit in the driver's seat of the van. Move the shifter shaft around until it is in a comfortable position. You want all gears to be in easy reach from the driver's seat. You may notice the taller height of the Big Shot Shifter V2.0 takes a moment to get acquainted with. You'll come to love not having to reach down for the shift knob through the shift rod and lower Big Shot Shifter assembly.

When you like where the shifter shaft is position tighten the upper nut on the Big Shot Shifter with a 19mm wrench. Note: You can always adjust the position of the shifter later by loosening this nut, changing the angle of the shifter, and retightening the nut.



Step 23: Remove the two nuts you temporarily installed holding the base plate from under the van. Grease the tracks inside the lower shift box and the plastic shifter tabs on the shift rod fork. Install the lower shift box using all four nuts.



Step 24: With clean hands, install the included stud in the top of the shifter shaft. You will feel it bottom out slightly. It is not necessary to torque this stud as the action of screwing on the shift knob will tighten everything together.



Step 25: Install the Big Shot Shifter V2.0 shift knob hand tight.

Step 26: Test your new shifter. It should engage all gears easily and without hangups. If you find that you cannot find a gear, you may need to adjust your shift rod linkage according to the factory repair procedure as found in the Bentley Manual. If you're satisfied with the installation, replace your spare tire and secure your clamshell.



Step 27: Congratulations! Now get out there and explore with your new Van Cafe Big Shot Shifter V2.0!