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4H-TECH Short Shifters. Power shifters for quicker and shorter gear changes

Fitting guide for M66-Shift on Volvo cars



This fitting guide shows step by step how to fit the 4H-TECH M66-Shift Short Shifter kit on Volvo V40 D4 (140kW) 190pk 2.0 Diesel. Other Volvo cars (like V60, V70, S60, S80, XC60 etc.), will have about the same procedure, some things might differ from these cars, but normally this guide can be used for all applications.

Important: Check if your original shifter arm (located on top of your transmission) looks like this:



The 4H-TECH M66-Shift Short Shifter is designed for this system. It will not fit on other Volvo M66 transmissions.

Put the transmission in neutral gear and open the bonnet.
Remove the cover on top of the radiator. (2 bolts)



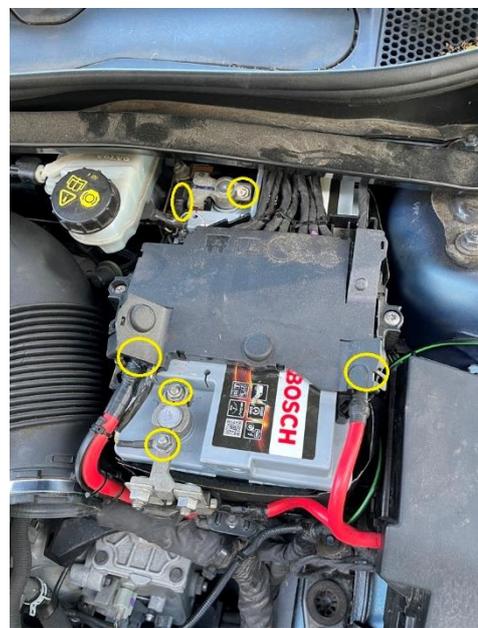
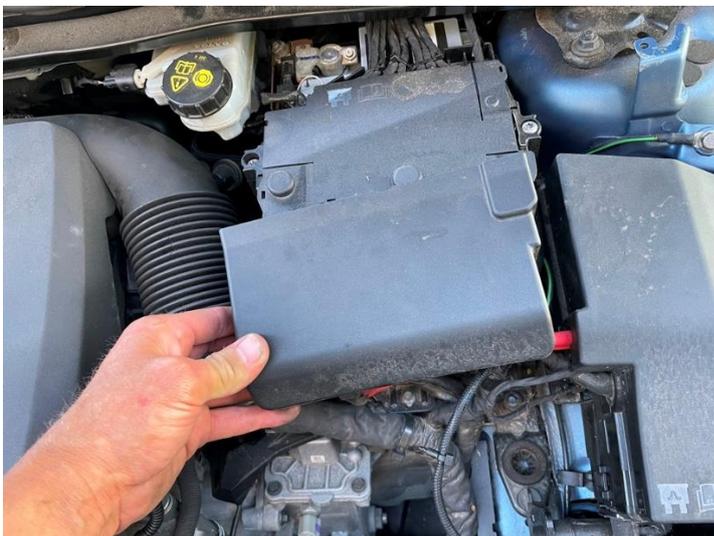
Undo the small coolant line from its fastening points and place it on top of the intake duct, and unclip the line also from the side of the air filter housing.

Unclip the electrical connector from the air mass meter, and remove the intake hose.

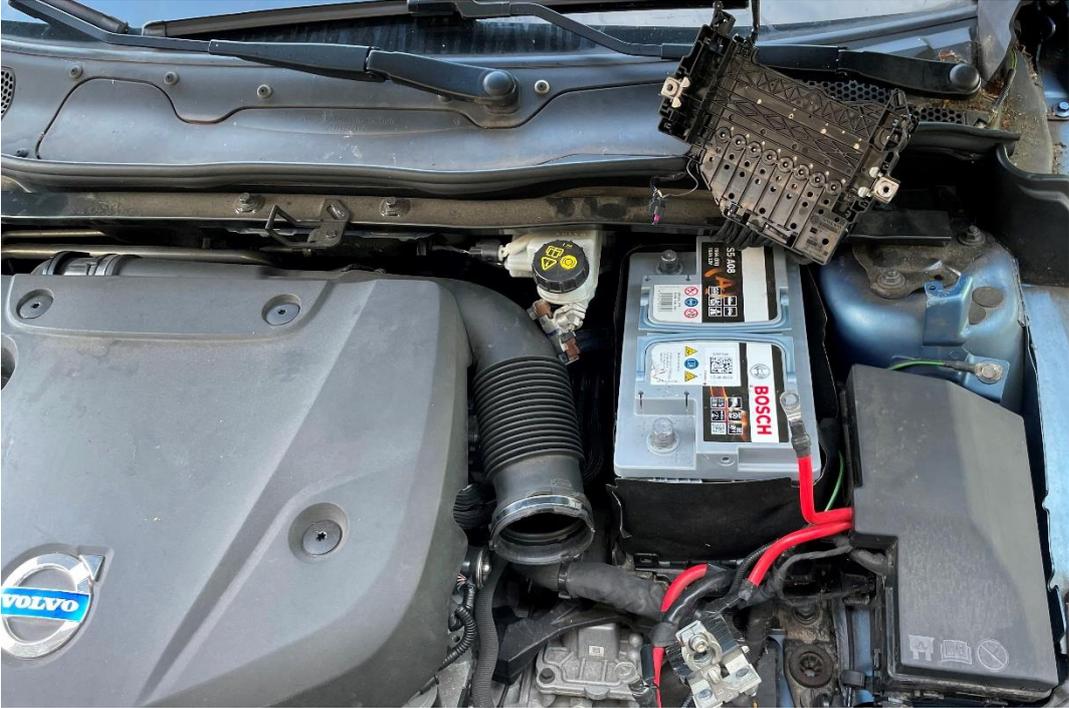


Pull the air filter housing up (from its rubber mounts), and remove it.

Remove the battery protection plate and unscrew the cable connections from the 12 Volt distribution block which are shown in a yellow circle.



The 12V distribution block can be tilted backwards towards the front window. If you have a Ty-rib, you can fasten it temporary on the wind screen wipers.



Remove battery insulation, and unscrew the battery secure bracket.



Remove battery and battery tray.



Pull up the shift cable from the bolt head of the original shifter arm.



Underneath the battery tray you will find the shift cable bracket.



Pull back the secure ring (see picture) and undo the shift cable from the cable bracket.



Unscrew the 2x M8 bolts, and put the 4H-TECH Spacers* between the bracket and the transmission. Re-tighten the bolts.

*These 2 spacers are very important, do not leave them away. Otherwise your shifts won't be smooth. They only need to be fitted to the left hand side of the bracket. The right hand side can stay original, without spacers.

Remove the original plastic Volvo shifter cap and put the 4H-TECH removal tool on the Volvo shifter arm, and press out the original pin which holds the shifter arm on the shifter shaft. (turn the tool-bolt clock-wise, while pushing the removal tool down on the Volvo shifter arm).

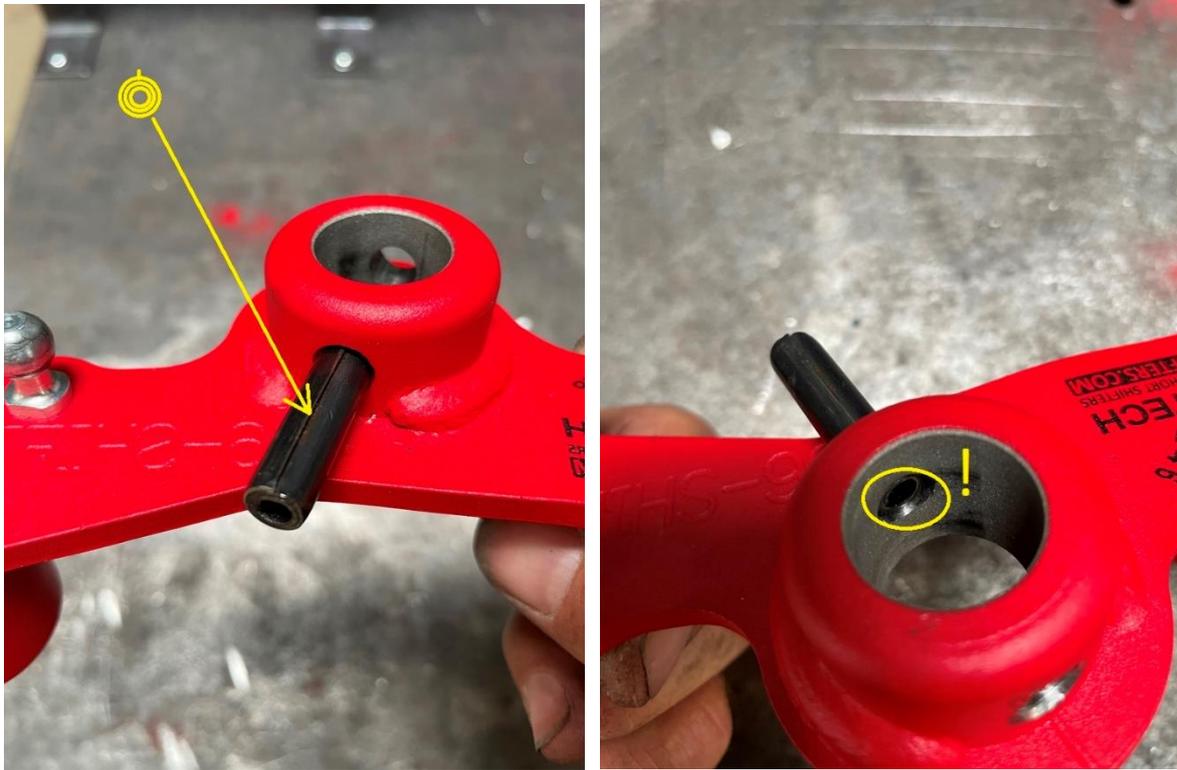


This tool makes the removal of the old Volvo shifter arm very easy.



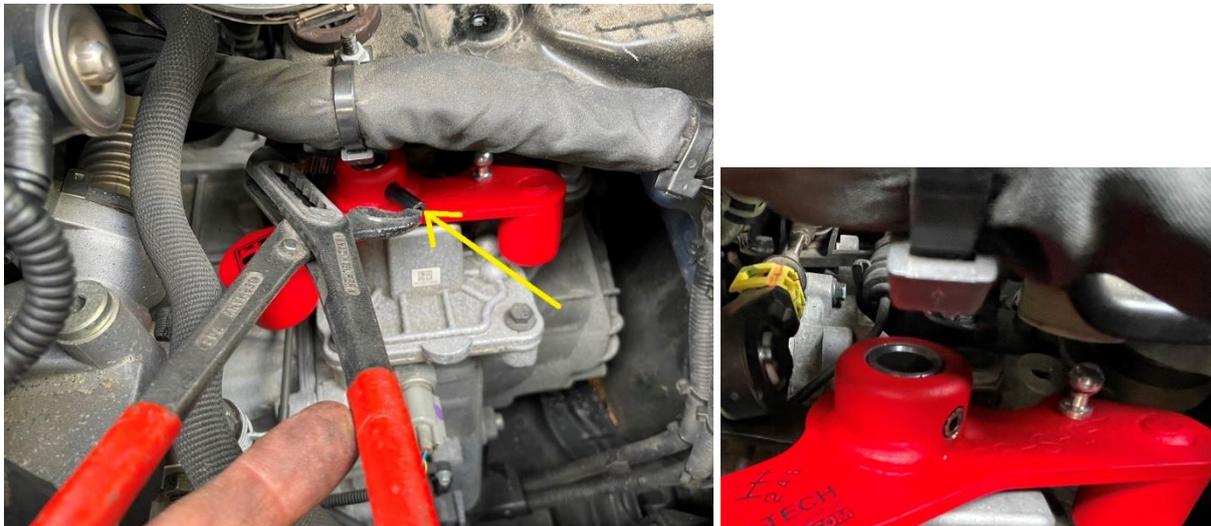
Take the secure pin from the Volvo shifter arm, it can be re-used, and tap it in the 4H-TECH Short Shifter. Tap it in till it is about 1 mm from the head shaft hole.

Important: put the pin in the hole with the edge upside, like shown on the picture. This makes the fitment of the top-end cap much easier.



Put the M66-Shift Short Shifter on the shift shaft and press the secure pin all the way in the shifter arm with groove joint pliers. (Dutch: Waterpomptang)

Small tip: Put a small M8 bolt in the other side of the pin hole to guide the pin through the hole of the shift shaft.



Push the shift cable on the bolt head of the short shifter, and push the plastic top cap on the shifter shaft, to prevent from dirt coming in the shaft.



Check if all gear can be engaged with a factory smoothness , and fit all parts back in reverse order.



Make a test drive and enjoy 30% less gear throw and that lovely ``Klick-klack`` feeling. Now your car shifts like a race car, but always remember to be safe and don't get overly excited on the public roads out there.

Protected Design. This Short Shifter is 100% developed, tested and produced by 4H-TECH®, and is protected under international copyright, trademark and other laws.



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