



**SHORT-SHIFTERS.COM**

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

## Fitting guide for TL4N-Shift



This fitting guide shows step by step how to fit the 4H-TECH TL4N-Shift Short Shifter kit on a Renault Megane IV. Other cars (like Nissan), will have about the same procedure, some things might differ from this car, but basicly this guide can be used for all applications.

The following tools are needed to fit the new Short Shifter kit:



Open the bonnet.



Remove the air filter housing (unclip from the battery tray)  
The housing can be pulled upwards and removed very easy:

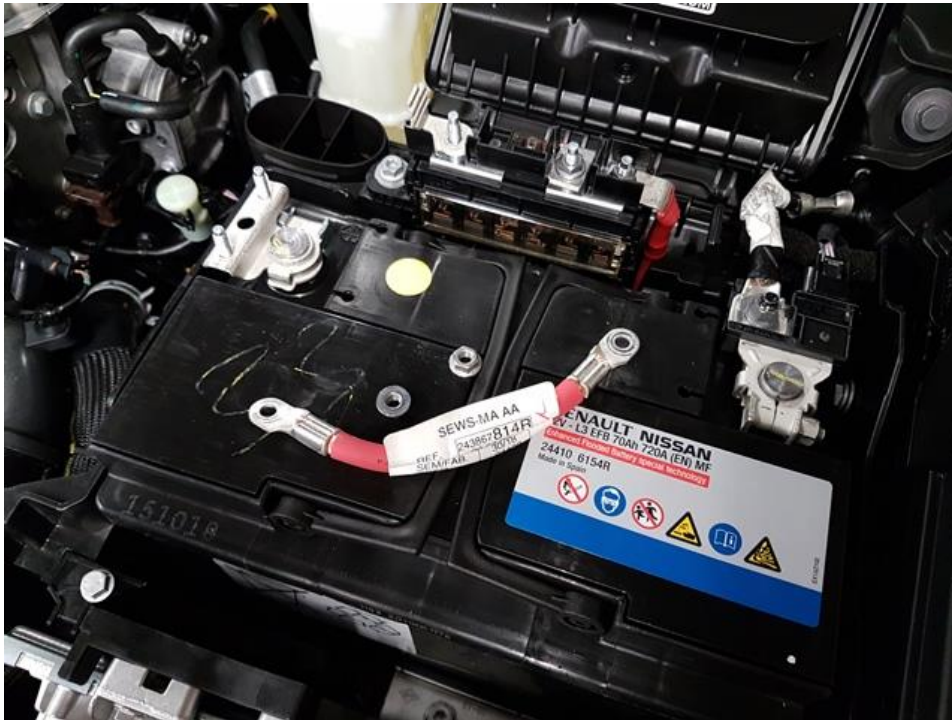


Remove front cover of the battery tray.





Remove positive battery cable



Remove the negative battery cable from the battery and unclip the small connector:



Remove battery secure plate.

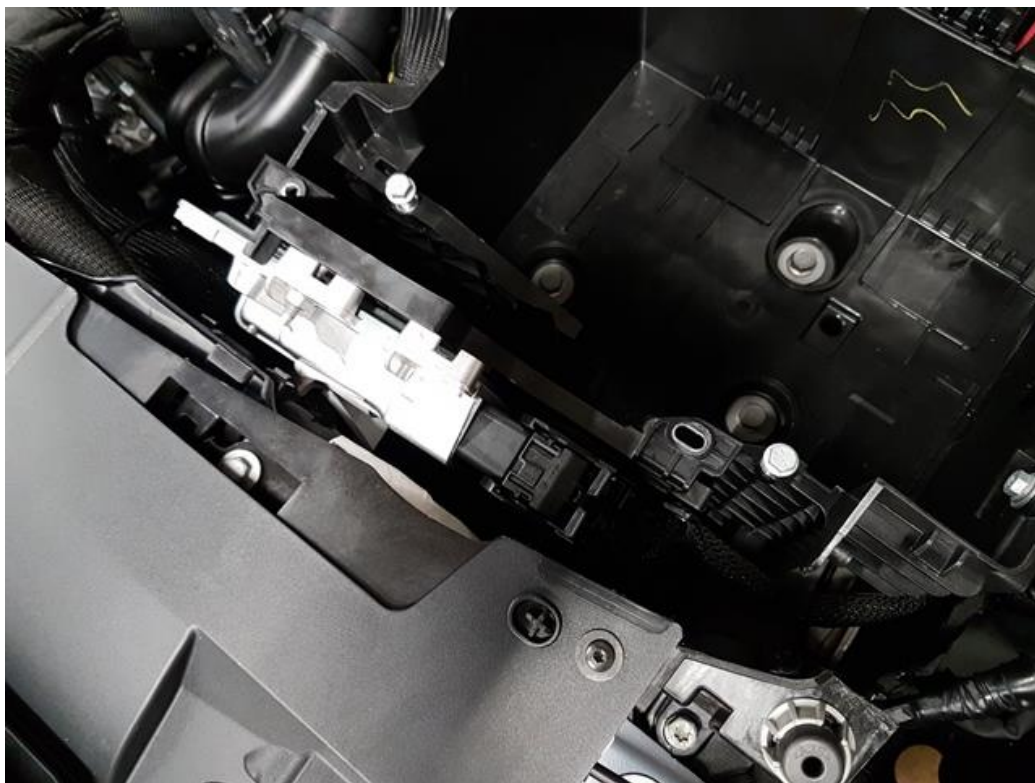




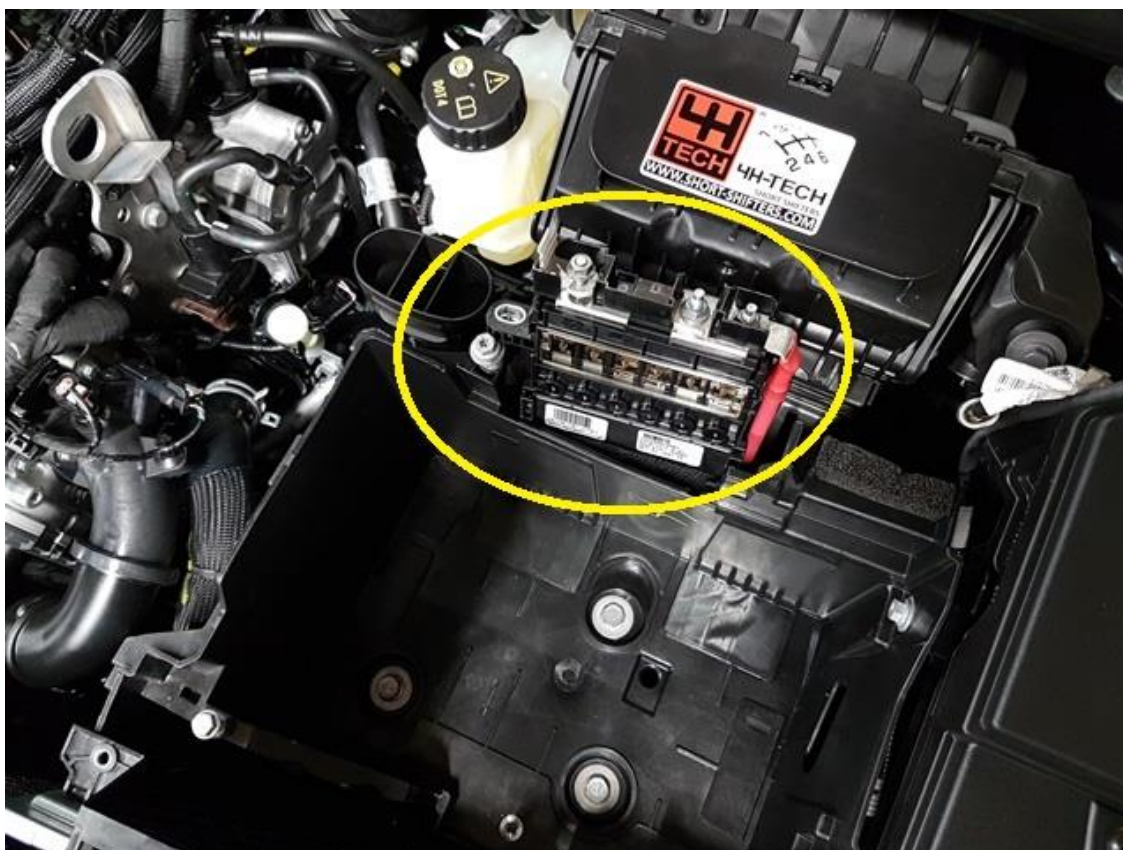
Remove battery:



Loosen the 2 bolts from the plate which holds the engine ecu, and pull it upwards. (ECU does not need to be unplugged)



Loosen the bolt from the electric distribution block:

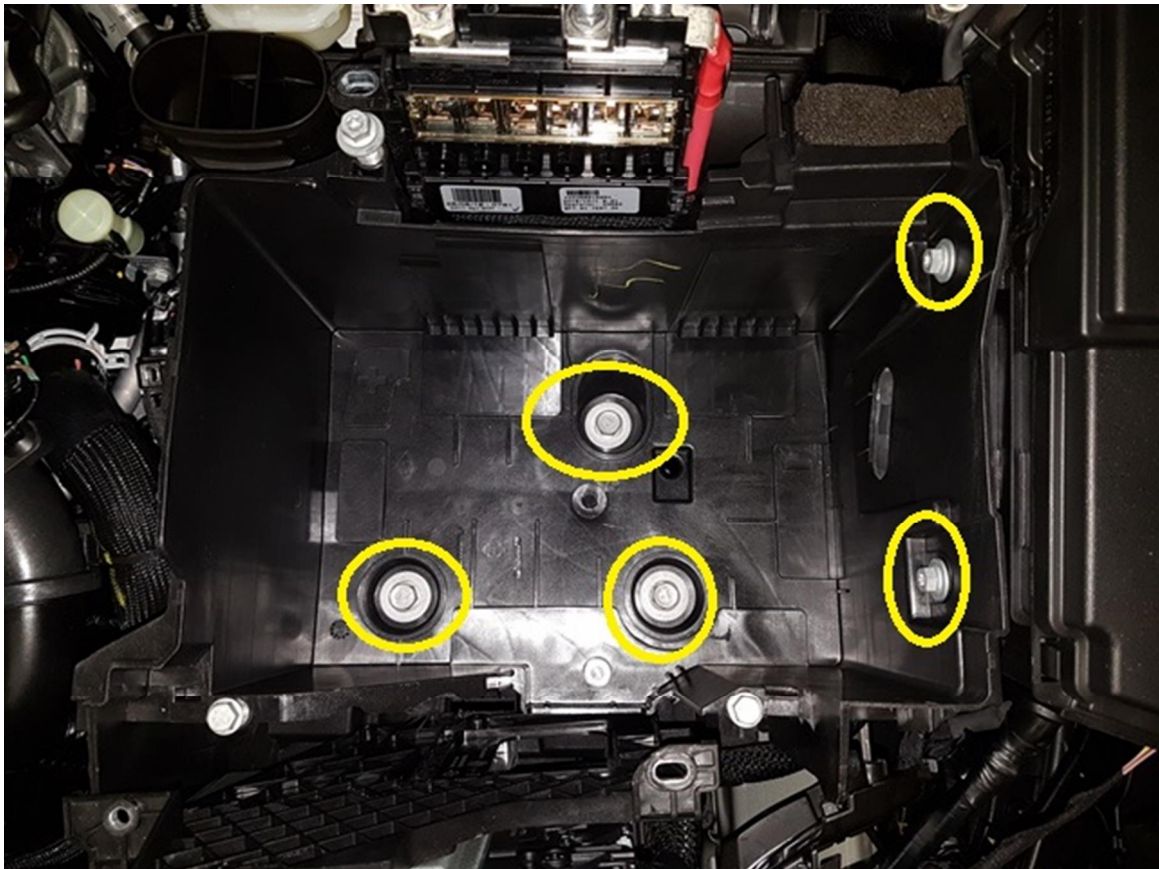




Unclip the bracket which supports the wiring from the battery tray:



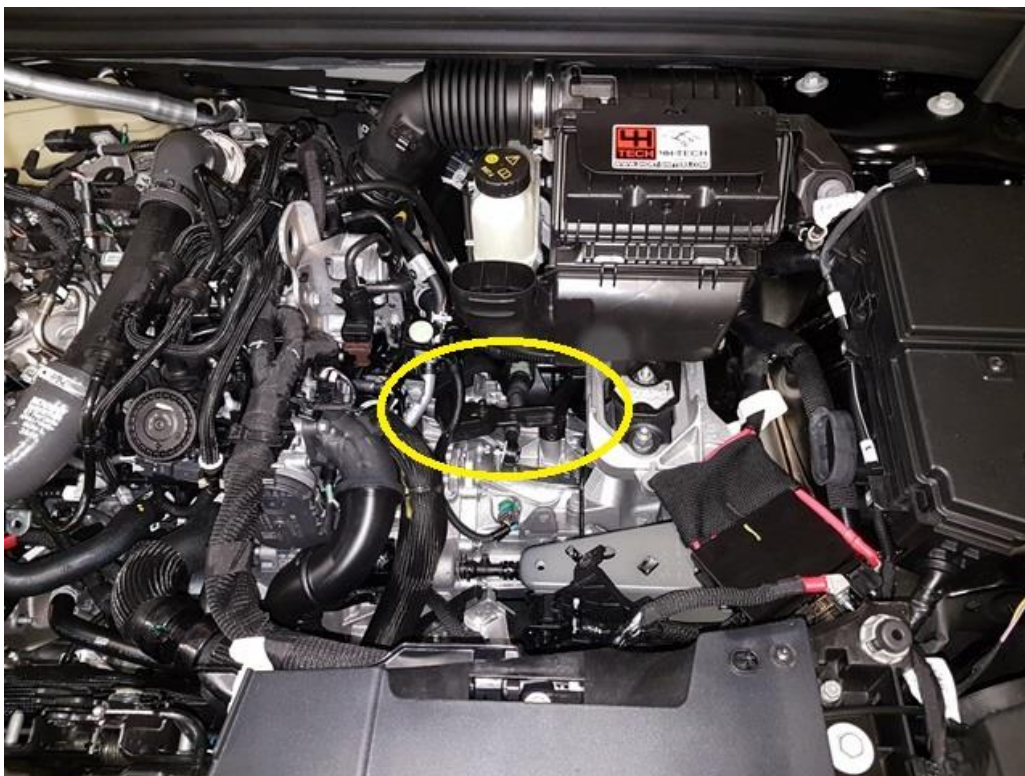
Unscrew the 5 bolts which are shown in yellow, and remove battery tray:







The OEM Shifter can now be found as shown here:



Use a 13mm spanner to remove the shift cable from the OEM shifter arm:



Unclip the connector from the transmission:





The OEM shifter is secured with a 2-piece pin. A small pin, within a big pin. Take a **4mm** cotter pin driver tool and tap out the small pin. (turn the shifter arm clockwise for easy access)



Now take a **6mm** cotter pin driver tool and tap out the big pin:



Now the OEM shifter arm can be removed very easy:



Remove the 2 pins from the OEM shifter and tap the big pin about 4mm in the 4H-TECH Short shifter as shown on the picture:





Put the Short Shifter on the transmission shaft and secure it by tapping the big pin into it first, and the small pin after that. (Both pins can be tapped with the use of the **6mm** cotter pin driver tool. (you can use a 7mm drill if necessary to aline the holes from the back side of the shifter)



Press the shifter cable on the bolt head from the short shifter.



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.



**SHORT-SHIFTERS.COM**

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

Copy right 2018 by 4H-TECH®