

CAE SHIFTING TECHNOLOGY GMBH

ALTE BOTTRÖPER STRASSE 103
45356 ESSEN
PHONE +49 201 8777 802
E-MAIL: INFO@CAE-RACING.DE

INSTALLATION MANUAL CAE ULTRA SHIFTER SUBARU IMPREZA WRX / STI 6 SPEED ART NO 10087-ST



The CAE shifter is designed for cars with complete interior equipment
Center console itself must not be modified.
The shift boot cant be mounted

WARNING!

Due to the design of motor sport and therefore missing rubber damping elements engine and transmission noises and vibrations may transmitted into the interior

RE-MOUNTING STOCK SHIFTER

- Pull off the shift boot and pull it with the knob from the lever
- Remount the cover frame and the upper part of the center console
- Loosen the 4 Screws of the Rubber boot frame

- Lift the car safely by car Lift and remount the underbody cover
- Remount the stock shift unit complete
Loosen the big Rubber bearing from the gearbox at first, then remove the bracket.



- Hit the double split pin out of the rod connector to the upper side and remove the reverse gear attachment. Then loosen the backwards bracket and remove the complete shift unit to the upper side.



Disassemble the Shift unit to get the rubber boot as single part

MODIFYING RUBBER BOOT

- Extend the 4 screw hole up to 12mm to get the dasher installed
- Secure the blind plugs with the strips
- Introduce the Shift rod into the rubber boot and pull the rubber collar over the steel dasher at the rod
- Mount the rod at the gearbox joint and lay the rubber on his original position to the middle tunnel



INSTALLATION CAE SHIFTER



- Stand the Basement part of the shifter on the rubber boot and screw it with 4pcs M6x16
check the correct position of the rubber pins into the shifter baseplate.

- Push the shift rod joint on the Gearbox pinion and screw it with delivered screw M8x1x25mm tighten it with 20Nm & Loctite



These pics explain the rotating main bolt
The fixing screw is placed in the groove of the bolt, and fix it vertical.
Secure the fixing screw with the delivered wire
The main bolt have to be turnable !!!.



Grease the unit often with good spray grease.

We recommend Würth HHS2000



**!!!Grease the Main bolt and the hole for it good before assambling !!!
Take care that the bolt and hole is not damaged !!!**

- Mount the upper part of the center console again .



grease the main bolt
of the shift rod

- Loosen the spring stop downside the shifter housing a little bit
- Put the complete shifter upper part on the basement and introduce the main bolt into the hole of the fork
!! do not damage it
!!!
- Put in the fixing screw into the fork, it will be secured with the wire later.
- Screw the shifter upper part on the basement with delivered 4 pcs M5 x 12 screws (these screws produce small chips while fastening)

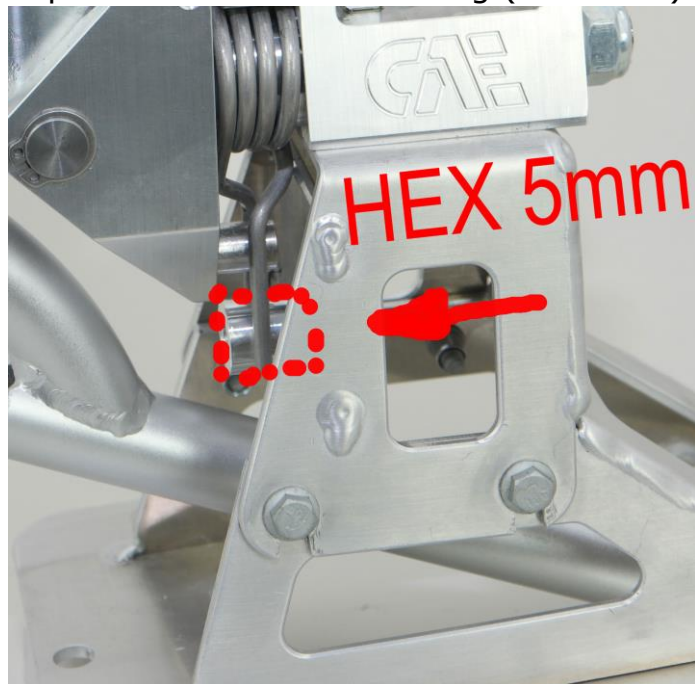
Install the „Stock reverse Lock“ to the gearbox. With this the internal reverse lock out will be fixed.
Introduce the fixed M4 Screw into the housing and screw the other side to the Lever.



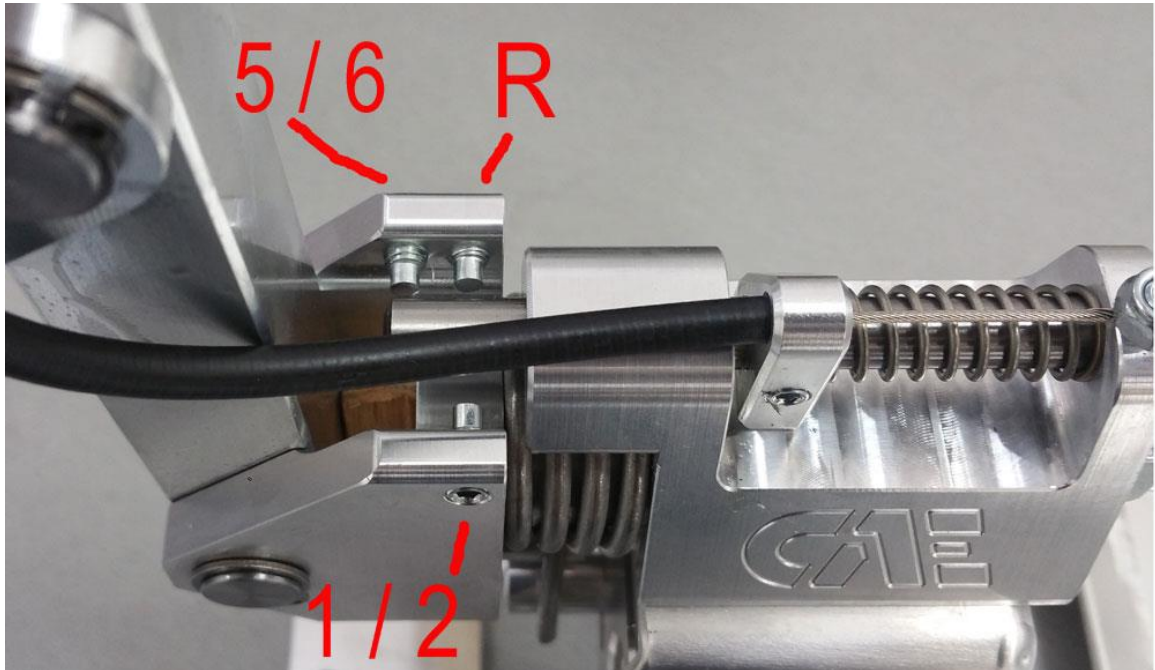
TUNING THE SHIFTRANGE 6 SPEED GEARBOXES

- Select 3.or 4th Gear by moving lever for- or backwards
- Now tighten the Main spring stop under the Shifter housing (hex 5mm)

*Check
: 3rd / 4th Gear can be
switched easy and **at
selected gear** the lever
has the same space to right
and left
If unbalanced readjust until
its ok*



- Now Use the lever for searching 1 / 2 gear , turn the adjustment screw till 1st and 2nd gear fits perfect.
*The screw **must not** touch the bolt at selected gear*



- Then switch gears via the gearshift lever in Level 5/6. and screw the adjustment screw until the 5th / 6th Gear can be selected well.
*The screw **must not** touch the bolt at selected gear*
- Pull reverse lock mechanism and switch into the reverse gear
Turn adjustment screw till Reverse gear fits perfect.
- Mount the frame of the Shift boot if you like it , we recommend double tape

Check all funktions and tuning of the shift range while driving the car.

Wrong adjustment will destroy your gearbox !!

CAE SHIFTING TECHNOLOGY WISH YOU A GOOD TRIP

If you experience any problems or questions, please contact us absolutely, we need YOUR feedback to improve our products