

CAE SHIFTING TECHNOLOGY GMBH

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INSTALLATION MANUAL

CAE ULTRA-SHIFTER FOR HONDA CIVIC FK8 TYPE R



The shifter is intended for cars with complete interior equipment.
The center console must be removed and reinstalled for installation.
center console needs to be trimmed just minimally

Lubricate all moving parts regularly with good spray grease, e.g.
Lift the rubber caps on the ball heads.

We recommend Würth HHS 2000

To clean the aluminum parts, we recommend commercially available alcohol.
Never spray degreaser into the bearing
points, this will cause the bearings to seize
immediately

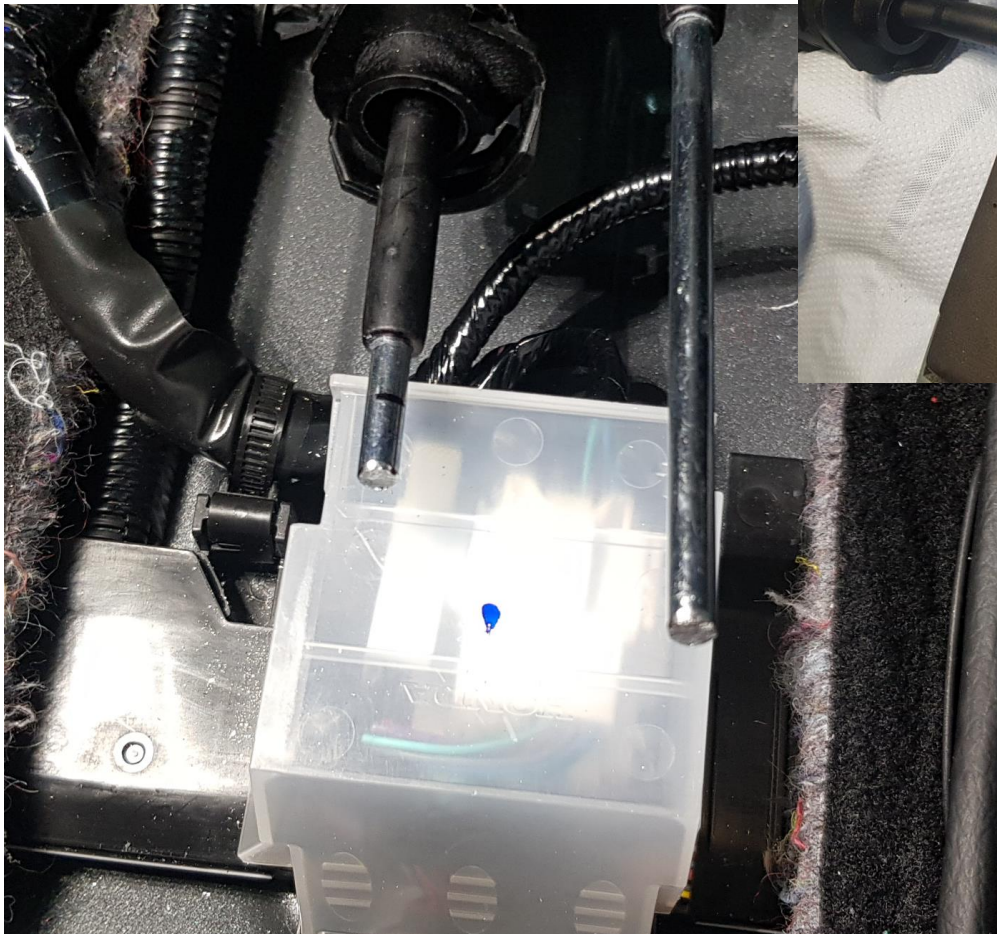
Removing the stock shifter:

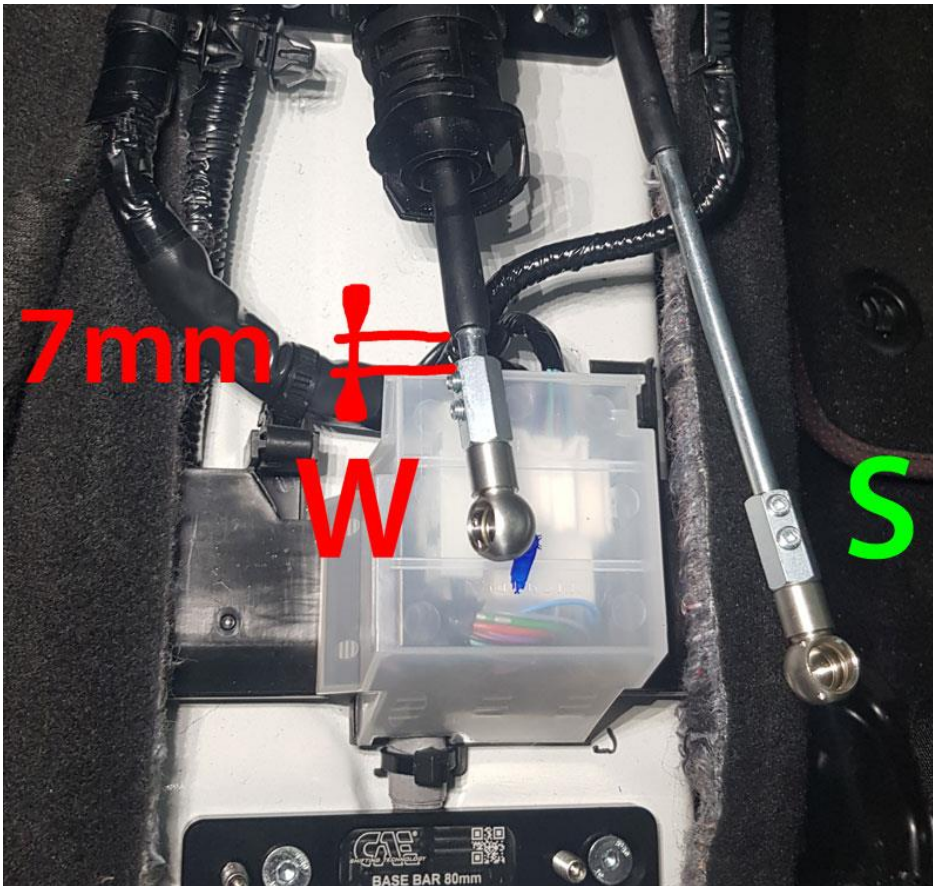
- Remove the center console completely.
Shift the transmission into neutral
- Detach the shift cables from the balls and
the bulkhead. To release the cables from the
shifter housing, the pawl must be pushed
back, then turn the cables 90° and remove
them
- Unscrew and remove the original shift lever



Machining the shift cables

- The original ball sockets of the shift cables must be sawn / separated exactly 12mm away from the plastic part.
- Deburr the 6mm core of the shift cables.





- Push the supplied steel ball pans onto the ropes and tighten the grub screws; here too we recommend using a small drop of screw adhesive.
- In neutral, at least **7mm** space must remain on the ball socket "**W**" to the black sleeve

CHECK:

Push the cable all the way in (Level 1/2)
Then there must be 1-2 mm space left to the sleeve

- When sliding the ball sockets on, pay attention to the alignment so that the cables do not have to be twisted later:
 - Opening of the ball socket selector cable "**W**" points to the lefts
 - Opening of the ball socket shifting cable "**S**" points upwards

Mounting CAE Shifter

- Place the two base Bars on the threaded holes and screw on with the supplied countersunk screws, we recommend a small drop of screw adhesive per screw.

- > 90mm bar in front
- > 80mm bar at the back

Pay attention to the correct alignment of the base bars, see picture



- Position the CAE shifter and insert the shift cables into the shifter housing; Immediately insert the cables into the respective bracket and fasten by turning 90°. (cables do not lock)

This works best if the shifter is put to the right or left to the side.

Pay attention to the position of the lugs on the shift cables:



- Then place the CAE Shifter on the bars and screw it tight with the 4 nuts.



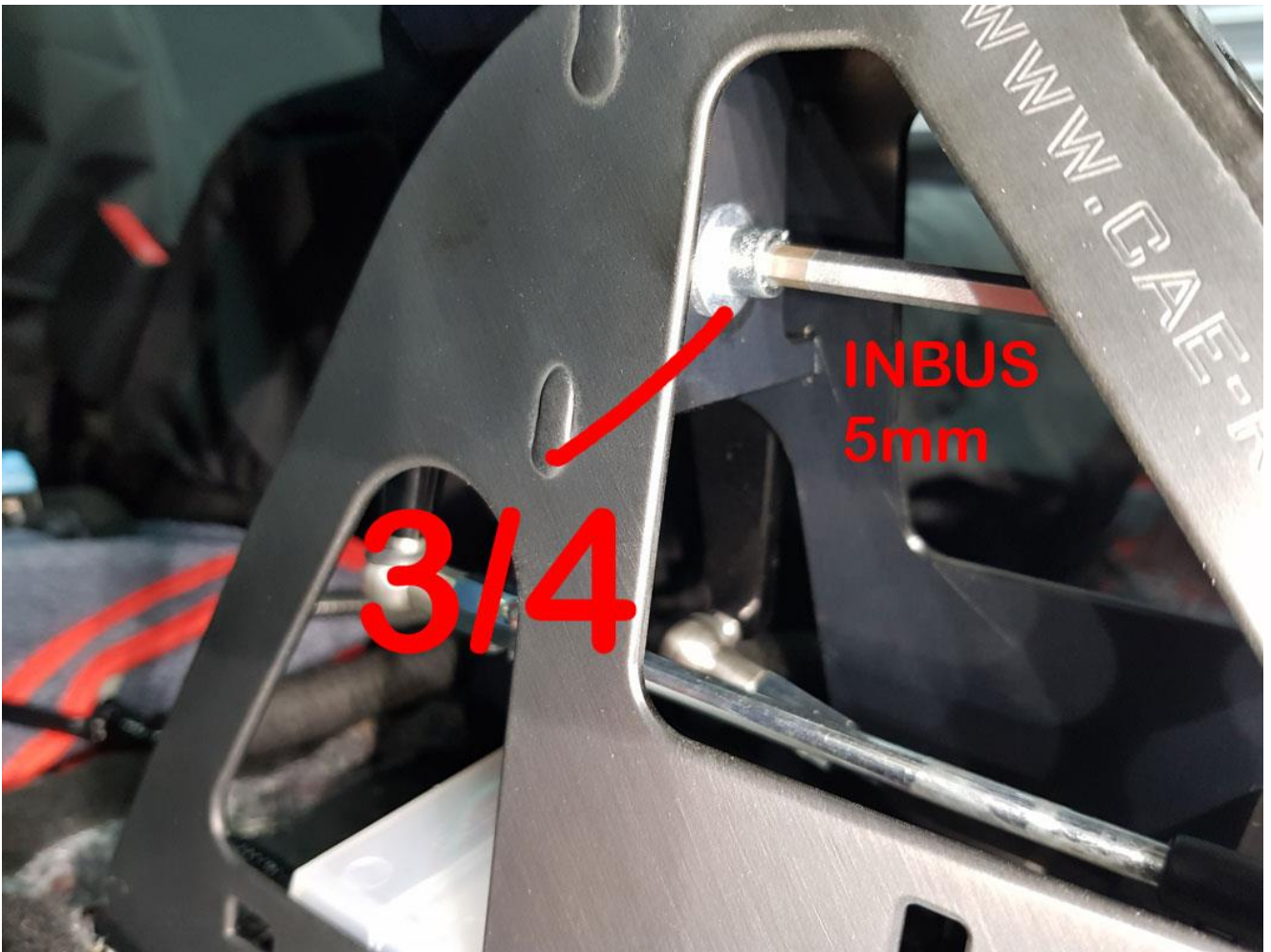
- Grease the ball pans and press them onto the balls of the gear lever and selector lever
- The pan of the selector cable "W" must fit without moving the lever or the cable, otherwise readjust the spring stop or change the position of the ball socket on the selector cable.
(see adjustment of the Shifter)



Generally grease each ball socket and bearing pin & bushings.

***Glue in all nuts / screws during assembly!
Never bend the shift cables***

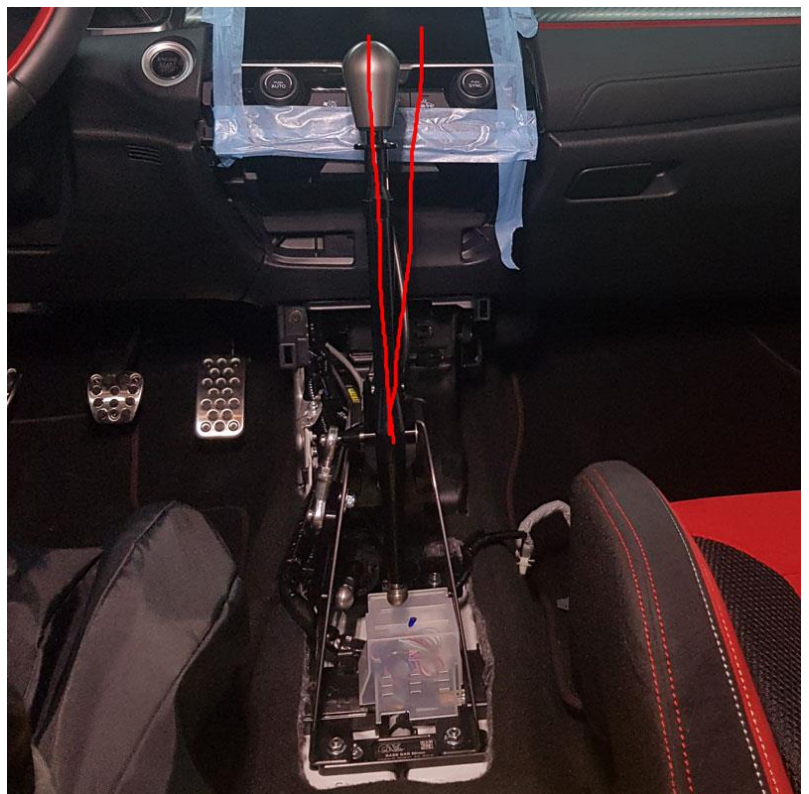
Adjustment of the Shifter - 6-speed

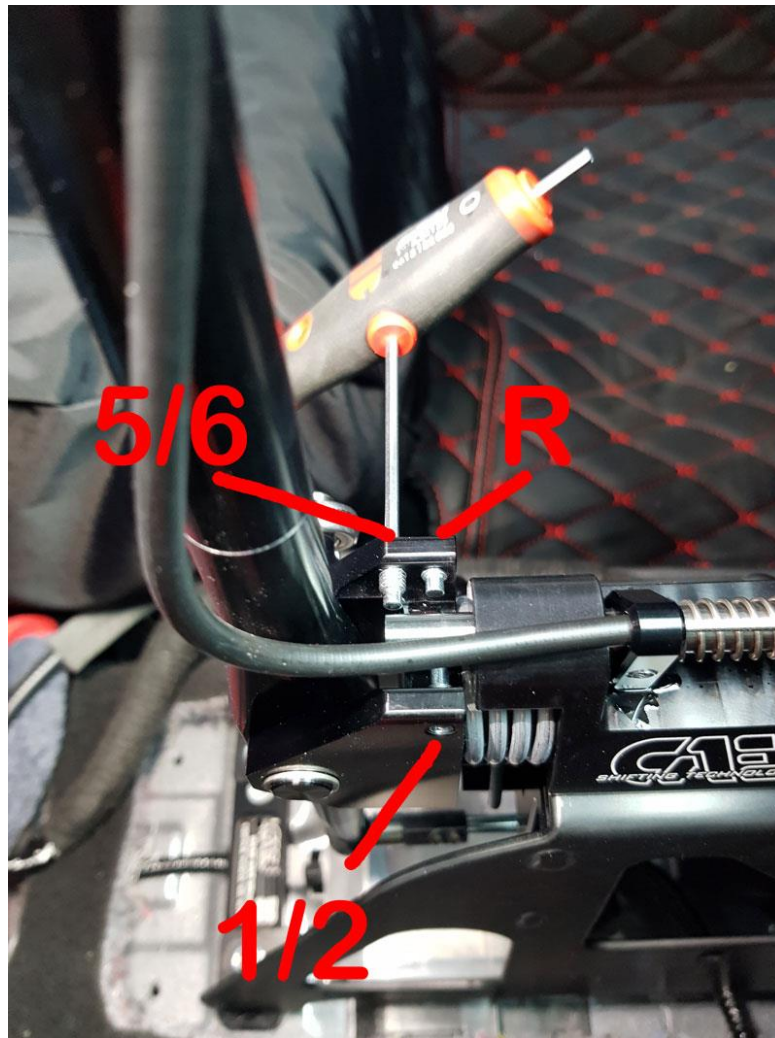


- Adjust / check the middle position of the shift lever, it should be inclined approx. 3-5° to the left, this is position 3/4 (middle position)

The side Unibal connecting rod should not be adjusted!!

- Adjust the spring stop: the gear lever should be inclined slightly to the left.
If the spring stop is setted correctly, the lateral play is the same to the right and left side when the gear 3 or 4 is engaged
- **This is the basic setting of the shifter and must be carried out correctly!!**





- Now use the gear lever to shift gear in level 1/2 and adjust the stop screw until the gears in level 1/2 can be changed cleanly.
(When the gear is engaged, the screw has no contact with the bolt (approx. 0.5 mm play))
- Now use the gear lever to shift in 5th / 6th level and screw in the stop screw until 5th / 6th gear can be engaged properly.
(The screw has no contact with the bolt when the gear is engaged, the shifter largely resets in $\frac{3}{4}$)
- Operate the reverse gear locking pin by pulling and shift the gearbox to the reverse gear level. (rightmost)
Screw in the appropriate stop screw until the reverse gear can be engaged properly.
(Screw has no contact with the bolt when the gear is engaged (approx. 0.5mm play))

Mount the cotter clips on the ball sockets:

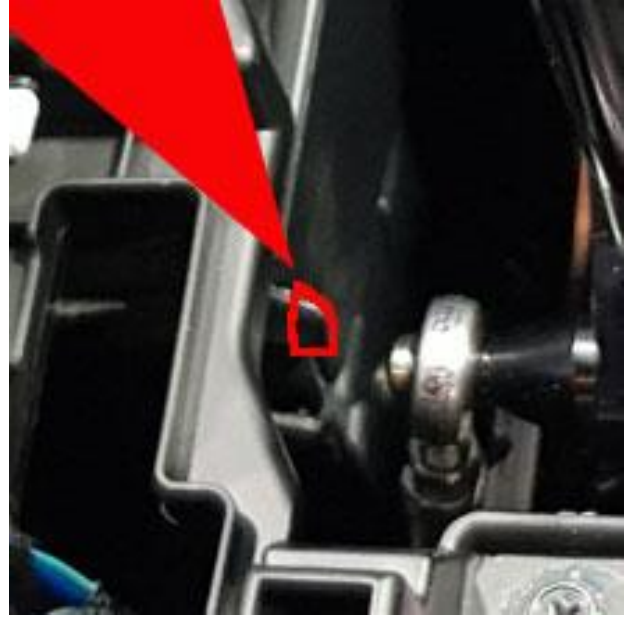
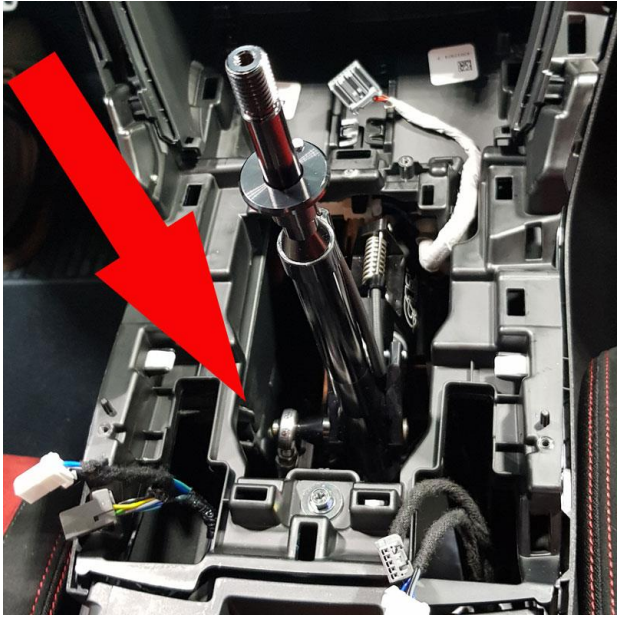


Check all functions and settings in the driving test and adjust if necessary. Incorrect or inaccurate setting can lead to gearbox damage, damage to the shifter or the shift cables !!!

For an optimal shifting experience, the shifter must be set correctly.

We recommend completely connecting the switch console for driving tests

Install the center console after driving test.
The plastic tab shown must be shortened, this can be done easily with a cutter knife when installed.



If problems occur during installation, please contact us.

We rely on your feedback to continuously optimize our products.

CAE wish you a good trip



If the shifter is being reassembled, the supplied connection sleeves must be mounted as shown