

# **CAE SHIFTING TECHNOLOGY GMBH**

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## **INSTALLATIONS INSTRUCTIONS FOR CAE ULTRA-SHIFTER MAZDA RX8 5-SPEED GEARBOX**



The shifter is intended for vehicles with interior fittings.  
The center console has to be slightly trimmed for installation until a freely  
moving for the shifter is guaranteed.

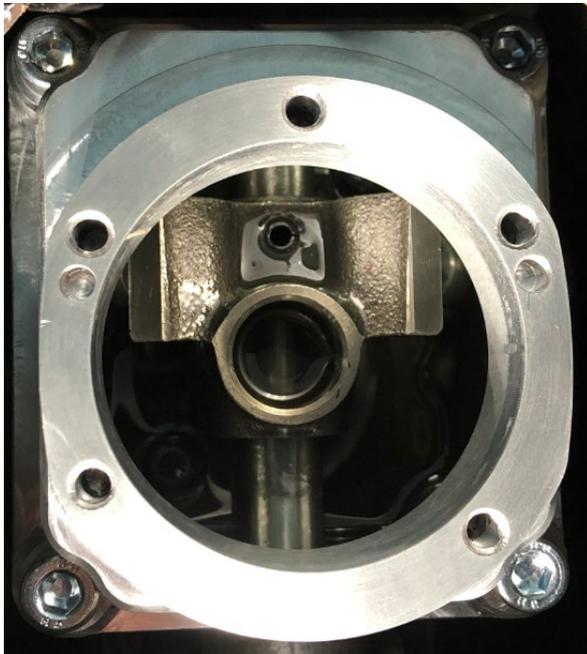
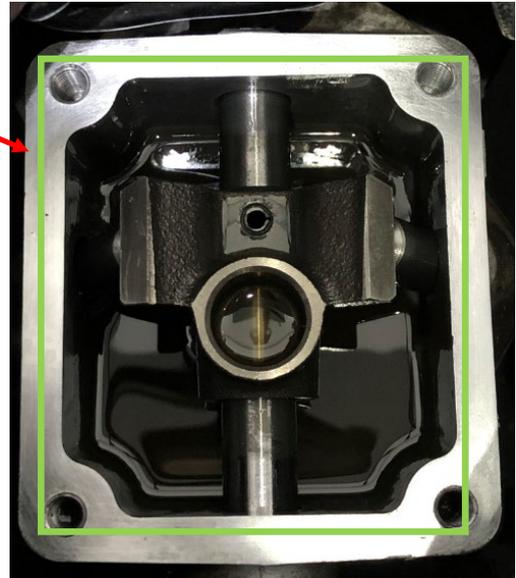
All moving parts lubricate with good spray grease! (Würth HHS 2000)  
To clean the aluminum parts, we recommend commercial brake cleaner.

## Deinstallation:

- Completely remove the center console.
- Remove original shift boots; original shift lever and housing.  
(the housing is glued with sealing compound in the factory)
- Clean and degrease flange surface

## Mounting of the Shifter

- Apply the supplied green sealant thinly to the sealing surface on the gearbox.



- Place one toothed washer under the Allen screws.
- Tighten all 4 fixing screws.

- Now mount the lower gear tunnel sleeve.
- Pull the sleeve carefully over the shifter basement.





- Now unscrew the screw from the handbrake lever and put the four washer on the studs (shifter not installed)



- Then mount the supplied frame that holds the tunnel sleeve.
- Use the four existing nuts and tighten the hand brake screw again.
- The frame must press the sleeve firmly onto the gearbox tunnel to make it tight. (shifter not installed)



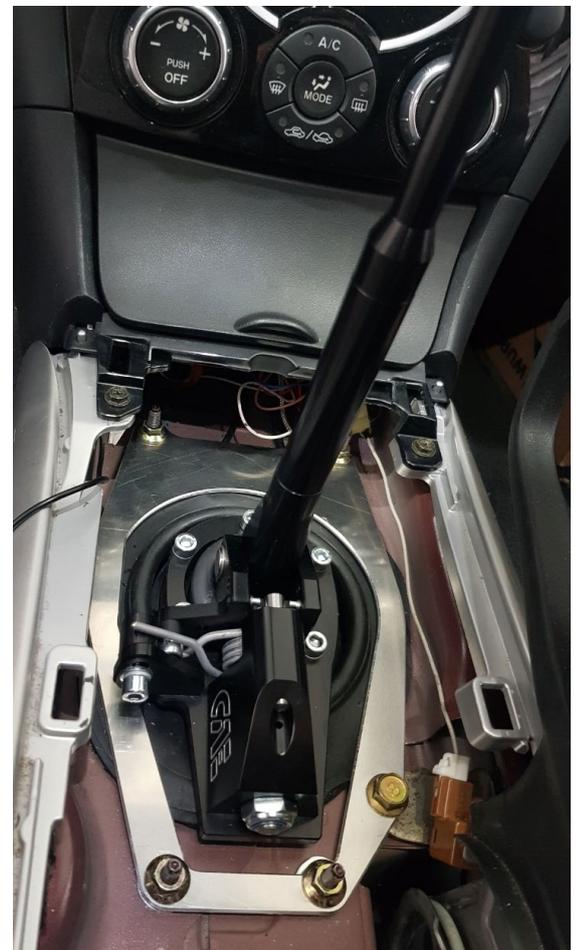
- Now apply the supplied green sealant thinly to the upper sealing surface of the shifter socket.

- Lubricate the ball on the gear lever lower part with a little gear oil and place the upper part of the gearbox from above. Hold the gearshift vertically and carefully insert the ball into the gearbox.

- Now tighten the upper part with the 5 pcs M6 allen screws. **(12NM)**

**IMPORTANT:**

Always insert one toothed lock washer.



**Important:**



There must be a gap of approx. 5 mm between the shifter and the gearbox tunnel. If there is too little space, loose the 3 connecting screws of the PPF-Bracket on the gearbox slightly and lift the gearbox a little bit. Then tighten the screws again and check if there is enough space between the shifter and the gearbox tunnel.



*Generally grease each bearing regularly.  
(we recommend Würth HHS 2000)*

*Secure all nuts or bolts with glue or toothed lock washer!*



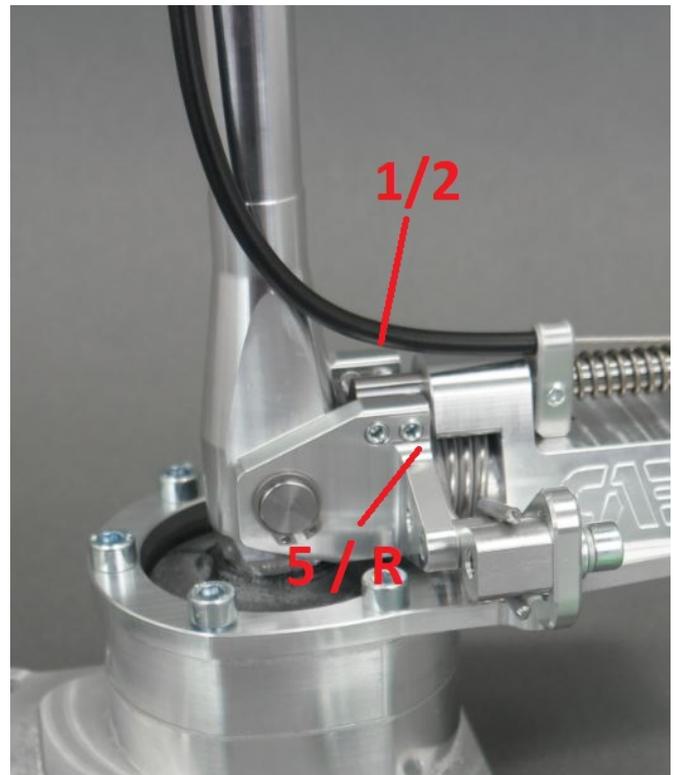
## Adjust the shift distance 5 speed gearbox



- Adjust center position gear 3/4
- release spring stop (allen key 5mm)
- Shift gearbox to 3rd or 4th gear. The 3rd and 4th gear is in neutral position. Move the shift lever forward or backward to engage them.
- Retighten spring stop
- Control:
- **When 3rd or 4th gear is engaged, the lateral play of the shifter must be the same.** Otherwise, readjust the spring stop.

**THESE SETTING ARE THE BASIS FOR ALL OTHER SETTINGS**

- Then shift gearbox in 1st / 2nd gear and screw stop screw until this gears change clean. (the set screw must not touch the locking pin when the gear is engaged, approx. 0.5 mm space is ok)
- Now shift gearbox in 5<sup>th</sup> gear and screw stop screw until this gears change clean. (the set screw must not touch the locking pin when the gear is engaged, approx. 0.5 mm space is ok)
- Pull the reverse locking pin, shift the gearbox to reverse gear level. Screw stop screw until this gear change clean. (the set screw must not touch the locking pin when the gear is engaged, approx. 0.5 mm space is ok)



**Check all functions and settings in the driving test and readjust if ist necessary.**

**Incorrect or inaccurate adjustment can lead to gear damage**

**!!!**

## Modifying the center console

- The center console does not need to be modified.
- Reinstall the center console.
- The original shift bag can be left or to be used.



If you have problems during installation, please contact us.  
We rely on your feedback to constatly optimize our products.

**CAE wishes good drive**