

**INSTALLATION MANUAL
FOR
CAE ULTRA-SHIFTER
RENAULT CLIO III RS
CABLE CONTROLLED GEARBOX**



The shifter is intended for racing cars without interior equipment. If center console is mounted, it must be dismantled or modified to achieve an acceptable space for the cables.

The new unit should be mounted directly on to the floorboard, so part of the carpet must be removed.

Disassembling:

- Raise the vehicle safely on car lift, expand underbody paneling and exhaust heat shield, unhook the exhaust out of the rear rubber and allow to hang secure with rope or wire
- Disconnect and remove battery and battery bracket
- Remove the original shifter and shift cables and Airfilter completely
- Remove the transmission cables

- Loosen the Shift boot including frame from the center console
- Let hang the exhaust at rearside, its not required to reinstall him
- then remove the underbody heat panels to get access to the shiftbox
- remove shiftbox and cables completely
- reinstall the center console also, if you like to use it later you have to cut out it as necessary



- Fix the rubber stripe to the shift box as shown, also to the bottom site:

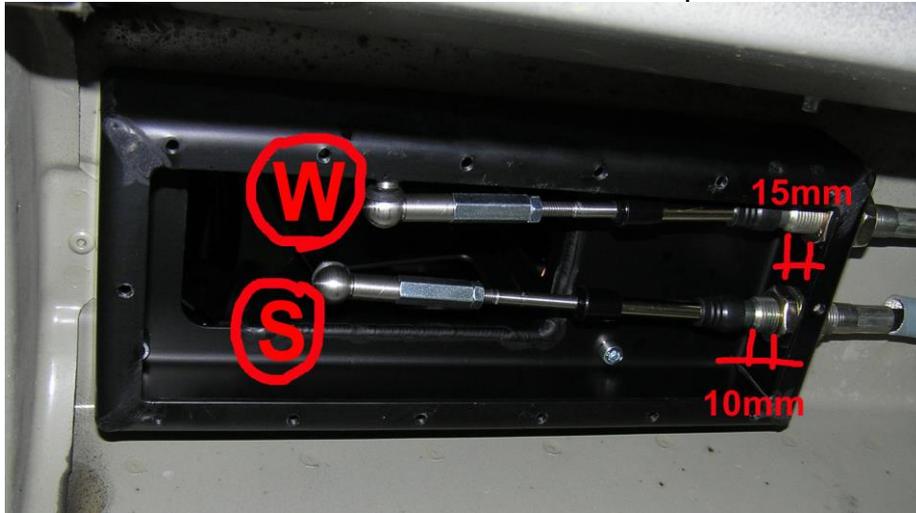


Installation

Before assembling the Balljoints lubricate the pans with good grease. After completing the shifter, secure the ballstud with a cotter pin. All screws and nuts on the shifter must have Lock-Tite or anything that keeps the screws or nuts from coming loose.

Never bend the shiftcables!

Mount CAE Shifter similar to stock part:



Mounting of Shiftcables

Never bend the shiftcables!

Fit the cables to the Box as shown in former picture

Shorter cable (S) L=1070mm to middle Hole in the Box Longer Cable (W) L=1100mm to the right. Glue the M16 Nuts while tightening



Attention!

Protect shift cables with the blue heat protection tubes protected from the heat necessarily.

Also the protected cables must not contact the exhaust !! Cars with turbocharged engines require additional shielding with honeycomb plate to protect the cables by overheat



Mount the Cables to the gearbox bracket:



Glue all Nuts !!!

Check end positions of the cables : When gear is shifted there have to be rest way.

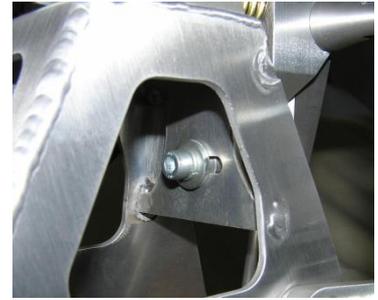
Tune the shifting range 5&6 Speed

- Pull the (W) Pan from the L-Lever in the Box
- Select 3rd or 4th gear manually. To select it, pull the gearlever easy forward or backward .
- Now select the wanted middle position of the gearshift and adjust the lower spring stop under the unit with Allen wrench.

In middle position the gearshift should be slightly turned to the right.

- Adjust the Pan for pushing up without changing the length any more
- Now 3rd 4th have to be changed clearly.

- Select level 1st/ 2nd gear with lever and turn stop screw Z until the gears 1/2 can be selected well.



Now select gear 5 / 6 by the gearlever and turn stop screw X until the 5th/ 6th gear can be selected clearly.

Pull rear stop bolt and enter rear gear. Turn stop screw Y until the reverse gear can be selected clearly. Refit the exhaust, all trim parts, battery and bracket and check for tightness.

Tighten all nuts and mount cotter pins

Close the Box with the sheet and remount all car parts; check all functions again before starting testride

**Check out all functions of the shifter by road test and if necessary readjust
Incorrect settings may destroy your gearbox**

**CAE SHIFTING TECHNOLOGY
WISH YOU A GOOD TRIP**