



**Front Strut Bar Installation Guide** v1.0 (Dec 2014)

**Part No. ECO111-0302**

## Application


VW Mk7 Golf, GTI, Golf R

## List of Parts Included

- (1) Strut Bar Rod
- (2) Strut Bar Rod Ends
- (2) Rod End Jam Nuts
- (2) Strut Mounts
- (6) M8 x 30mm long bolts
- (4) M8 x 35mm long bolts
- (4) Lock Nuts M8 Nylon Insert
- (14) M8 Washers

## List of Required Tools

Flat Head Screwdriver No.1  
13mm Socket  
No. 6 Allen Socket  
15/16" wrench  
21mm Wrench  
Puller  
Torque Wrench  
Vehicle Lift or Jack Stands



**Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.**

# STEP

## 1

Raise front end of vehicle using an automotive lift or jack stands (do not use ramps). The front wheels of the vehicle must still be touching the ground or supported.

Remove the rubber seal molding that is attached to the plastic top cover.



# STEP 2

Remove the three clips that attaches the plastic top cover to the firewall support. Slide them out by hand.



# STEP

## 3

Remove the wiper blade arms by first removing the nut cover with a no.1 screw driver. Then use a no. 13 socket to remove the nuts. Use a puller to pull off the wiper blades.





# STEP

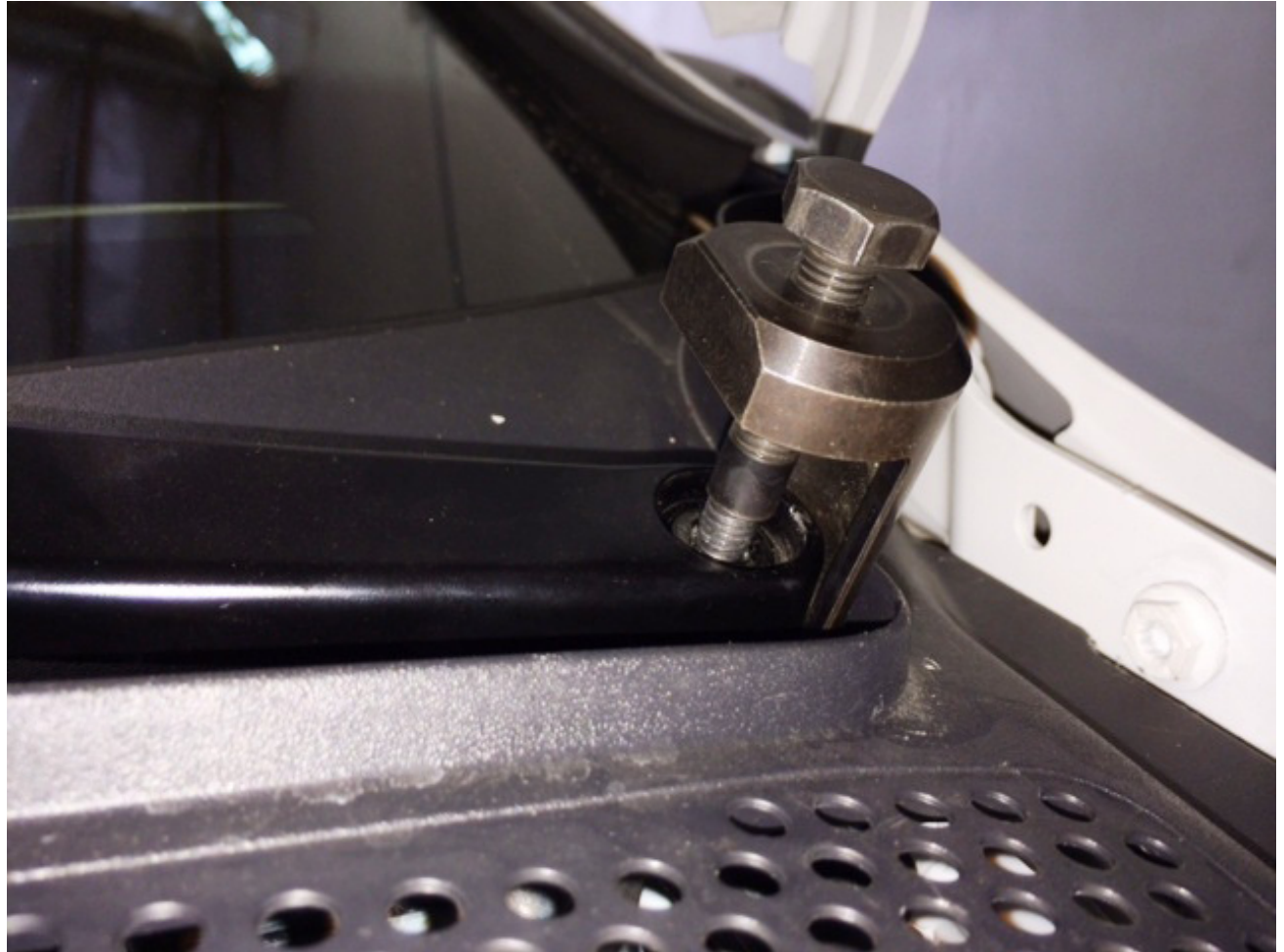
# 4

Then use a no. 13 socket to remove the nuts.



# STEP 5

Use a puller to pull off the wiper blades. Take note of the positioning of the wiper blades for reinstallation later.





# STEP

## 6

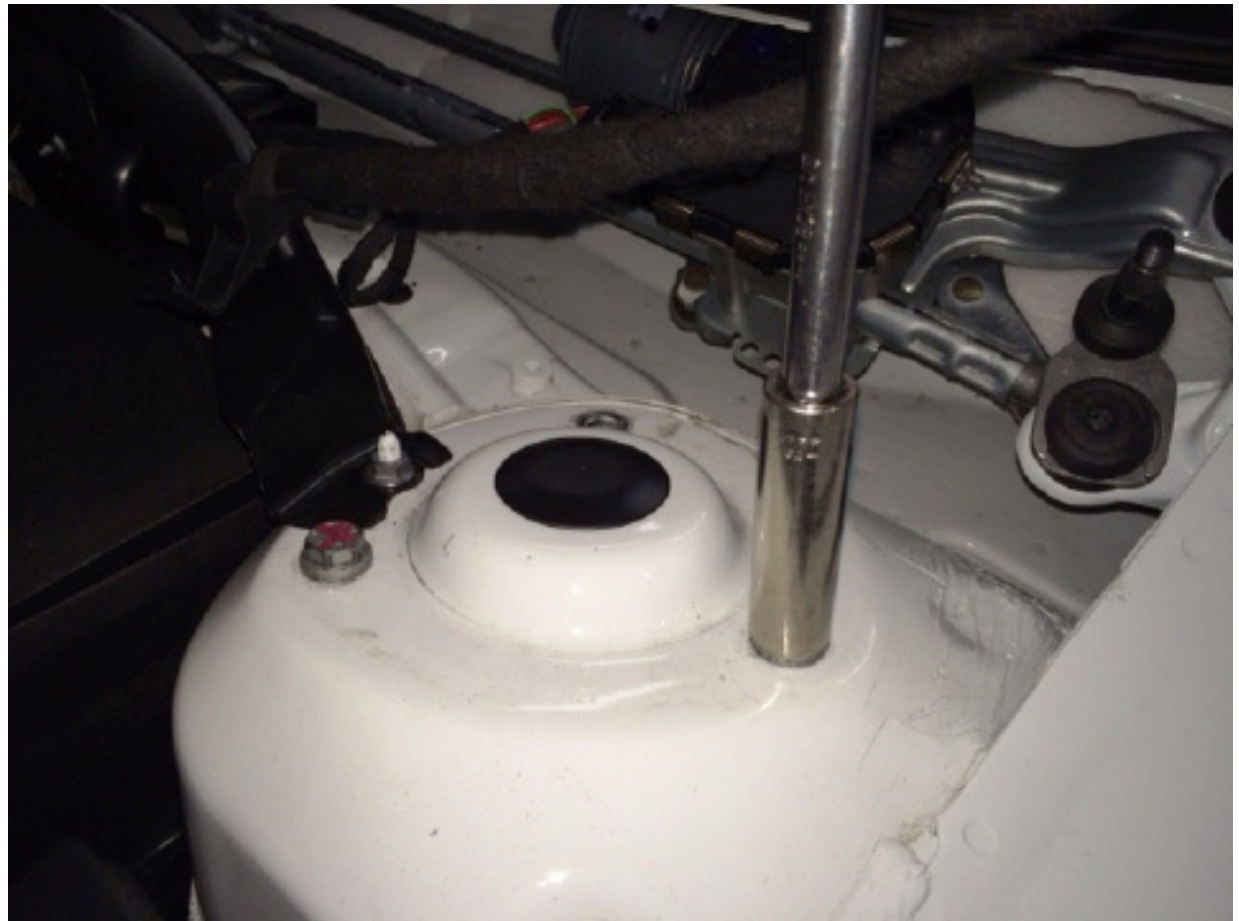
Remove the plastic covers by carefully pulling on one end, remove the driver side first.



# STEP

## 7

Remove the strut bolts from each strut tower using a 13mm socket.  
(Warning: The factory bolts were stretched when installed. Do not reuse these bolts.)



# STEP

## 8

Install the strut bar mounts using the supplied bolts, 6 ea, M8 Allen head cap screw 30 mm long, and washers. Dab a small amount of Loctite (not included) on the threads. Hand tight for now using a no. 6 Allen socket. If the screw holes have misaligned, remove the plastic strut tower cover and use a pry bar to nudge the strut in place.



# STEP

## 9

Install the rodends on to the rod. Note that the left hand thread rod end should be installed on the side of the rod with an "L" stamped on a wrench flat. Leave a quarter inch gap between the rodend and the jam nut. Leave the jam nuts loose for now.





# STEP 10

Install the assembled rod on to the mounts using the Allen head cap screws (M8 x 35mm long), washers and lock nuts. Install and tighten the bolts on the inboard holes only on both ends. Tighten just enough such that the Rod can still be moved. The mounts (and/or struts) may need to be slightly rotated and the rod ends may be adjusted to get the proper alignment of the rod to the mounts.



# STEP 11

Tighten all 6 strut mount bolts to 16 ft-lbs (22 Nm) on both sides.  
Make sure the strut bar is aligned properly to the mounts before tightening.





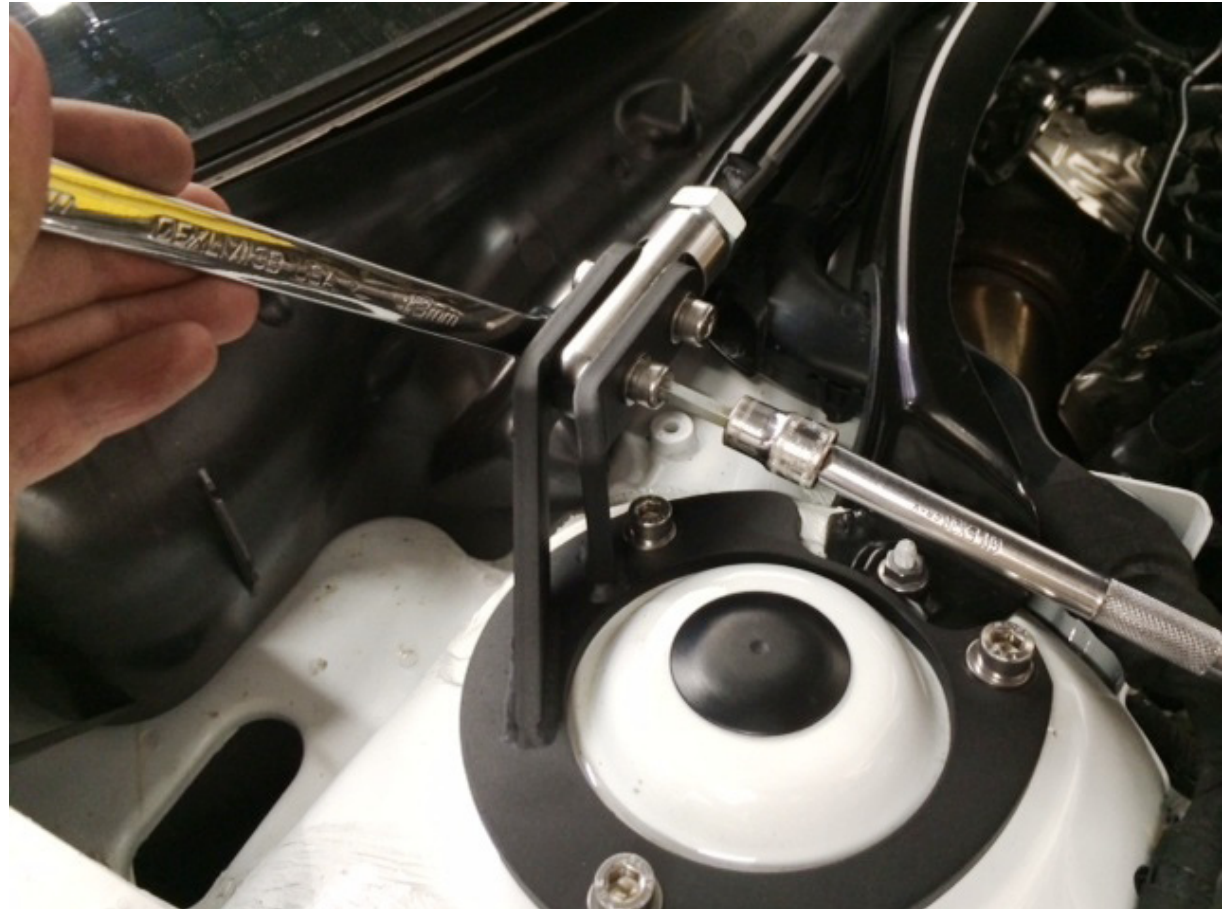
# STEP 12

Install the outboard Allen head cap screws (M8 x 35 long), washers and lock nuts on both ends. Rotate the rod such that the rod ends extend. Stop turning as soon as resistance is felt.



# STEP 13

Tighten all nuts to 13 ft-lbs (18 Nm).



# STEP 14

Preload the strut mounts by turning the rod 1/8 to 1/4 turn (45 to 90deg) in the same the direction as in step 8. Tighten the jam nuts on both ends using a 15/16" wrench. Torque to 15 ft-lbs (20 Nm)





# STEP 15

Reinstall the top covers, wiper blades, cover clips and rubber seal moulding. Torque the windshield wiper nuts to 14.8 ft-lbs (20 Nm).



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