

DSG / S-Tronic (02E) mechatronics unit repair



You can request a quote and order a new or refurbished mechatronics unit from us: [Request a quote](#), but also repair of the faulty mechatronics can be the most economical and a good alternative. We try to make the mechatronics unit repair process as easy as possible for you, but because the unit contains the electronics, mechanics, hydraulics, and in addition easily broken parts, as well as special tools are required, please read the sections below.

If you have shifting problems with your car DSG transmission, most common reason is faulty mechatronics unit. If your car importer's warranty is not valid anymore, and you think your mechatronics unit is faulty, then do as follows:

- 1) **Find out if you can loan VCDS tester from somebody, or buy your own tester. You definitely need a tester for the basic settings, oil changes and for trouble codes.**

We recommend this VCDS tester:

<http://www.ross-tech.com/vag-com/hex-usb+can.html>

With this tester you can do all needed operations and much more.

In addition you will need a laptop for VCDS tester.



You also need a special DSG transmission oil fill tool.

You can buy and use original DSG oil fill tool (VAS6262) or you can do it yourself, instruction is here:

[mectronic diy dsg oil fill tool.pdf](#)



It is assumed also that the standard tools are available, torque wrench, Torx keys, etc. You also must have the needed spare parts (new DSG oil, filter, gaskets and new bolts).

- 2) The trouble code(s) is a very important piece of information. So take any trouble codes on paper!
- 3) When the transmission is not working as it should be, find out shifting, what works and what does not work. Write all the observations on paper, such as jerky, only 2. gear works, whether the engine is cold or hot, when a fault occurs, etc. -> this will help troubleshooting and thereby reducing your repair costs.

4) Please fill the [Fault form](#) very carefully and send it to us. Filling the Fault form does not commit you to anything, it just help us to give an estimate of repair costs for you.

5) **WAIT, that you receive a repair cost estimate from us. We will give the estimate during one working day. It can be that the fault is technically and / or economically unprofitable to repair, so please do not remove the unit from the transmission! Or it can be that we have so much work that you have to wait a little longer.**

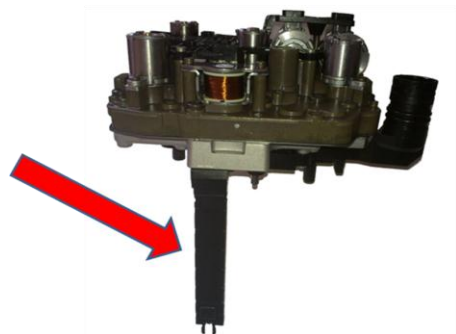
6) When / if we show a green light for repair, remove the mechatronics unit from the transmission. **BE VERY CAREFUL WITH LONG ARM SENSOR!!!** If it goes broken you have to buy whole new unit! Look at the removing instructions of the mechatronics unit: **6-speed DSG / S-Tronic (02E) transmission mechatronics unit removing / installing / reset / basic settings instruction** -> [Order form](#)

7) Do not wash the mechatronics unit with any cleaner. For example mineral spirit will destroy silicon gaskets of the mechatronics unit!!! Take care, any dirt is not allowed to go to mechatronics unit!

8) Do not remove any parts from the mechatronics unit!! The unit includes a lot of small parts, springs, balls and parts which have to be the right way, small O-rings which must be **ALWAYS** replaced with new ones if removed. However, if you already have a part removed, please let us know it.

9)

PACK THE UNIT WELL, because transportation does not often threat well parcels. Once again, BE VERY CAREFUL WITH LONG ARM SENSOR, if it is damaged you have to buy whole new unit!

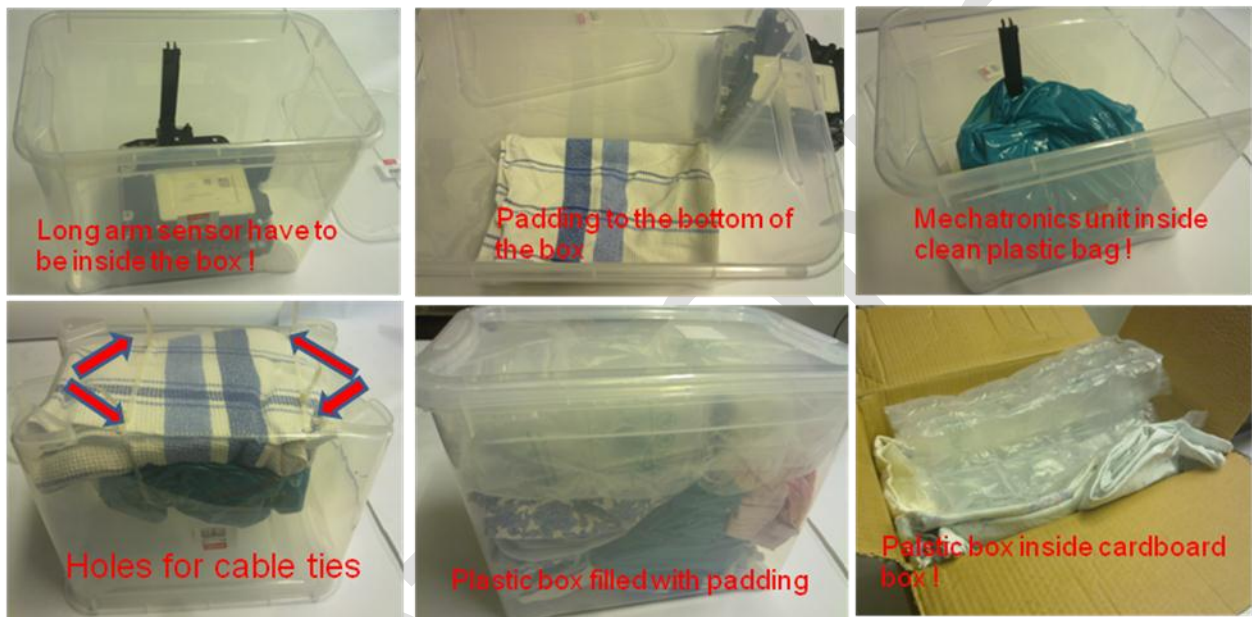


NOTICE! MECTRONIC will loan custom and purpose made 15 mm plywood transport case for you!



The mechatronics unit can also be conveniently packaged, for example to in Biltema's plastic box (27x39x29 cm) with cover:

- drill 4 holes to the bottom of the box (for cable ties)
- put lint-free pad to the bottom of the box
- put the mechatronics unit to clean plastic bag and place the unit to the box
- more length to the cable tie you will get when you connect cable ties each others.
- fasten mechatronics unit with cable ties to the box
- fill the box with padding
- close the plastic cover and put the plastic box to inside the cardboard box
- fill the cardboard box with padding.



- 10) Send the mechatronics unit to us. Address: [Contact](#)
- 11) Mechatronics unit repairing and testing will take 1 – 2 working days.
- 12) We will send repaired and tested unit back by using cash on delivery (COD) if using Post or Matkahuolto. In pick up cases you have to have receipt that payment has been made because we don't have cash payment possibility.
- 13) Install the mechatronics unit back to the transmission, remember also to do Reset and Basic settings for the DSG transmission, look at the instructions: **6-speed DSG / S-Tronic (02E) transmission mechatronics unit removing / installing / reset / basic settings instruction** -> [Order form](#)
- 14) We will give 2 year warranty for new and factory refurbished mechatronics units and ½ year warranty for fixed / used units.