



instructables

DSG / 0AM Mechatronic Unit 7 Speed Gearbox Hydraulic Accumulator Repair Kit Replacement Overhaul Leaking Crack Repair Fix VW AUDI SKODA SEAT Install Instructions Guide



by x8rltd

Symptoms Of Fault

VW 06079 GENERIC P17BF. VAG 006079/10902/10903, P17BF, Hydraulic pump - play protection.

VW 06300 GENERIC P189C. VAG 006300, P189C, Function restriction due to insufficient pressure build-up. P1895, Reduced function because of pressure drop.

Loss of power (gone into neutral), no gears can be selected, hydraulic pump runs constantly, you can see hydraulic fluid bubbling/rising out of the breather, flashing spanner icon where gear number usually shows.

The Fault

The accumulator mounting within the DSG unit fails causing these faults

Within the DSG Mechatronic unit, the hydraulic pump pushes oil through the filter towards the pressure accumulator which provides the system with oil pressure when the pump is switched off.

The cast metal part that the accumulator seats in to is too thin for the pressure exerted, this causes this part to crack and for the system to lose pressure causing the mechatronic unit to fail.

To replace the cast metal part is a very time-consuming job and would only fail again in future.

The Solution

Our unique design repair restores full function to the DSG unit

Our unique repair kit allows you to repair the failed cast block. Our accumulator base mounts to the cast block restoring full function, our improved design accumulator simply then screws in place, providing a full-term repair for this common fault.

For some types of transmission, the repair is possible in situ – provided the mechatronic sump can be removed in situ. Even if this isn't possible and the unit has to be removed our repair is still far simpler than replacing the cast block which requires complete disassembly of the Mechatronic unit.

No programming is required post installation. After the repair, pressure is restored and normal operation resumes.

Vehicles Affected

Compatible with following gearboxes:

DSG 7 gearbox models

0AM 325 025 M Z1L

0AM 325 025 M Z2B

0AM 325 025 M Z2N

0AM 325 025 K Z6D

0AM 325 025 K Z6C

0AM 325 025 K Z6T

Audi A1 (8X) with 7-speed dual clutch gearbox Model Years 2011-2016

Associated part numbers:

0AM 927 769 D

Audi A3 (8P, 8V) with 7-speed dual clutch gearbox Model Years 2008-2016

0AM 927 769 K

Audi TT (8J) with 7-speed dual clutch gearbox Model Years 2012-2016

0AM 927 769 G

And other models with a DSG 7 speed gearbox.

0AM 325 025 D

You Will Receive

0AM 325 025 H

1 x Replacement accumulator (complete with o ring)

0AM 325 065 N

1 x Accumulator housing / cast block adapter (complete with o ring)

0AM 325 025 J

1x Accumulator spanner.

0AM 325 065 L

0AM 325 065 S

DQ200 DSG

Please check your vehicle has a DSG 7 speed gearbox:

Volkswagen Golf Model Years 2009-2015

Volkswagen Jetta Model Years 2009-2015

Volkswagen Beetle Model Years 2013-2015

Volkswagen Passat Model Years 2010-2015

Volkswagen Polo Model Years 2010-2015

Volkswagen Caddy Model Years 2011-2015

Skoda Fabia Model Years 2013-2015

Skoda Octavia Model Years 2009-2015

Skoda Rapid Model Years 2014-2015

Skoda Roomster Model Years 2013-2014

Skoda Superb Model Years 2009-2015

Skoda Yeti Model Years 2013-2015



Step 1: Depressurise and Drain Mechatronic Unit

This repair can be carried out in situ on the vehicle if it is possible to remove the Mechatronic unit sump cover in Situ. This is the case with some vehicles not all. If you are unable to repair in place the gearbox will need draining down and the Mechantronic unit removing from the vehicle.

Follow you vehicle manufacturers procedure for depressurizing the system. This process will vary by vehicle.

Using a 5mm Allen key socket loosen the screw shown slowly and drain down the Hydraulic fluid from the Mechatronic unit.

The Mechatronic unit is under pressure.





Step 2: Remove Sump Cover

Remove the sump cover fasteners. Take note of the location of each fastener for reinstall. Socket sizes required: 10mm socket, T30 Torx.

Using a flat bladed screw driver lever off the sump cover, taking care not to damage the gasket.

Keep gasket in place on sump cover for reinstall.





Speed Gearbox Hydraulic Accumulator Repair Kit Replacement Overhaul Leaking Crack Repair Fix VW AUDI SKODA SEAT Ir



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Step 3: Remove Accumulator

Although the Mechatronic hydraulic fluid has been drained down the accumulator could still be under pressure as it is designed to store the fluid under pressure when the unit isn't active. Inspect closely around the base of the accumulator to check for cracks or splits where the accumulator base has failed. If there is no sign of damage the likely hood is that our part won't cure the fault it is also likely the unit

is under pressure and should not be disassembled. Only if damaged is evident and you are confident that the unit is not under pressure should you continue. If you are unsure or not confident; consult a professional.

Using a T70 bit loosen and remove the accumulator.





Step 4: Remove Accumulator Base Screws

If the block has fully cracked as shown here; remove all metal parts that have broken away.

Using a T30 bit remove the 3 screws shown.



Step 5: Fit Our Accumulator Base

Apply a very small amount of grease to the O-ring seal on the bottom of our Accumulator base. To aid with the initial sealing of this part.

Insert this part in to the cast block as shown, lining up the 3x screw holes with those in the cast block.

Reinstall the 3x OEM screws and tighten using an impact wrench.





Step 6: Install Our Accumulator

Apply a very small amount of grease to the O-ring seal on the accumulator.

Screw the accumulator in to the accumulator base.

Fully tighten using the spanner included with our kit.



Step 7: Completing the Repair

Ensuring the gasket seats correctly refit and fasten the sump cover.

Reinstall the drain screw and fully tighten.

The Mechatronic unit can then be refilled with hydraulic fluid (available from us), 1ltr is required. Note the breather shown here in the final image. If refilling on the vehicle this can normally be accessed from the engine bay. Pull the cap off of the breather and using a syringe push in 1ltr of fluid and refit cap.

This completes the repair. If you need any further guidance on this install or would like to purchase the parts shown please call us on +44 01843 446643 or

email us at sales@x8r.co.uk.

Please also check out our instruction guide on YouTube.

www.x8r.co.uk

Installation is carried out at installers risk, if unsure please contact us or a professional, X8R Ltd cannot be held responsible for any adverse result of installing this product or any injuries caused by install, if in doubt ask a professional. All images and texts are copyright X8R Ltd 2020.

Completing the Repair

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