



01-24-05 - ID. Software (ID.S) Compatibility for Service Part Replacement

Release date: 7/8/2024

Condition

Applicable Vehicles					
Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
ID.4	2021 – 2022	All	All	All	All

Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2073909/2	7/8/2024	93-24-05	Part numbers, procedure steps, and information added
2073909/1	5/20/2024	93-24-05	Original publication

- The parts catalog (ETKA) advises to follow this technical bulletin for certain service parts.
- The usage of these service parts requires that an available “ID. Software” (ID.S) compound update has been completed.

CAUTION

This technical bulletin is applicable only to support replacement of one of the below listed service parts, and only when replacement is justified according to a proper technical diagnosis, which is outside the scope of this technical bulletin.

NOTICE

Regarding the Three-Phase Current Drive 2 -VX97- (front motor) the technical bulletin 2071539/* or 2071701/* “Front Electric Drive Power Electronics Software Update - Specific Listed DTCs and Symptom Codes” must also be observed and performed, if applicable.



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Technical Background

Installation of the service parts listed in the table below requires an ID.S compound update.

Diagnostic address and control unit	Obsolete assembly part no.	Obsolete control unit part no.	Replacement assembly part no.	Replacement control unit part no.	ID.S Compound for using replacement part
0631 – Control unit for multi-function steering wheel -J453-	---	1EA.959.442	---	1EA.959.442.H	3.2.12 (OUH1 or OTA backup flash)
00CE – Electric Drive Power and Control Electronics 2 -JX4- In Assembly: Three-Phase Current Drive 2 -VX97-	1ED.901.132.J 1ED.901.132.H 1ED.901.132.R	1ED.907.121.N 1ED.907.121.AB	1ED.901.134.A	1ED.907.121.AS	3.2.11 (OUF7 or OTA backup flash)
0016 – Steering Column Electronics Control Module -J527-	---	1EA.953.508.J	---	1EA.953.508.AE	3.2.1 (97HC) -or- 3.2.12 (97H1) -or- 3.2.12 (OUH1 or OTA backup flash)



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0051 – Electric Drive Power and Control Electronics -JX1- In Assembly: Three-Phase Current Drive -VX54-	1EA.901.131.G	1EA.907.121.B 1EA.907.121.C	1EA.901.153.H	1EA.907.121.AC	3.1.3 (97ZZ)
	1EA.901.131.F 1EA.901.131.N	1EA.907.121.B 1EA.907.121.C 1EA.907.121.Q	1EA.901.153.G		-or- 3.1.3 (97HB)
	1EA.901.131.P	1EA.907.121.Q	1EA.901.153.H		-or- 3.2.1 (97HC)

NOTICE

The software of individual control units in ID family vehicles (MEB platform) is generally updated within an “ID. Software” (ID.S) compound update. Thereafter, parts having original pre-update software are no longer compatible. Post-update service part numbers having the updated software are visible through a VIN-specific lookup in the parts catalog (EKTA) after an ID.S compound update has been successfully completed, on the basis of the last recorded construction status of the vehicle (record of installed control units and versions).

Production Solution

Not applicable.

Service

1. Check whether the recall **97ZZ**, campaign **97HB**, **97HC**, or **97H1** has already been performed (all criteria closed).

- If no, continue with step 2.
- If yes, continue with step 3.

2. Perform the applicable recall or campaign compound software update:

- Recall 97ZZ: **ID.S 3.1.3**
- Campaign 97HB: **ID.S 3.1.3**
- Campaign 97HC: **ID.S 3.2.1**
- Campaign 97H1: **ID.S 3.2.12**
- Then continue with step 3.



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CAUTION

The compound software update according to recall 97ZZ or campaign 97HB, 97HC, or 97H1 must be performed before proceeding!

3. From the table above, determine the minimum applicable ID.S compound update campaign that corresponds to the part being replaced:

- If ID.S 3.1.3 through 97ZZ and if 97ZZ applies to the vehicle and is closed, continue with step 7.
- If ID.S 3.1.3 through 97HB and if 97HB applies to the vehicle and is closed, continue with step 7.
- If ID.S 3.2.1 through 97HC and if 97HC applies to the vehicle and is closed, continue with step 7.
- If ID.S 3.2.12 through 97H1 and if 97H1 applies to the vehicle and is closed, continue with step 7.
- If ID.S 3.2.11 through OUF7 or OTA backup flash, continue with step 4.
- If ID.S 3.2.12 through OUH1 or OTA backup flash, continue with step 4.

4. Check whether the current SW part number and SW versions in the vehicle correspond to the table:

- If no, continue with step 6.
- If yes, continue with step 7.

Over-the-air update campaign reference	ID.S compound version	Diagnostic address	SW Part no.	SW Version no.
OUF7*	3.2.11	00CE	1ED.907.121.AS	8353
<i>*Only in vehicles equipped with four wheel drive (PR number 1X1)</i>				
OUH1	3.2.12	0003	1EA.614.517.AR	0524
		0008	1EA.907.727.AG	0460
			1EA.907.727.AH	
		00A5	1EA.980.653.D	5332
			1EA.980.653.L	
		0016	1EA.953.507.*	0072
1EA.953.508.*				



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		0023	1EA.909.059.AN	0626
		003C	2Q0.907.686.K	0289
		0042	1EA.959.593.E	0551
		0052	1EA.959.592.E	0551
		00BB	1EA.959.597.E	0551
		00BC	1EA.959.596.E	0551


6. Carry out the following steps in order:

- Replace the service part according to the repair manual.
- Perform the **ID.S 3.2.12** compound software update, according to the attached software update instructions.
- For the replaced service part, select and perform the “replace control unit” test plan in Guided Fault Finding (GFF).
- End of procedure.

7. Carry out the following steps in order:

- Replace the service part according to the repair manual.
- For the replaced service part, select and perform the “replace control unit” test plan in Guided Fault Finding (GFF).
- End of procedure.

Warranty

 NOTICE
<p>If covered under warranty, the procedure given in this technical bulletin shall be processed as an additional claim line, separately from the service part which required usage of this technical bulletin.</p>



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To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual ¹⁾

Applicable Vehicles

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
ID.4	2021 – 2022	All	All	All	All

SAGA Coding

Claim Type:	Use applicable Claim Type ¹⁾
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Service Number: Select according to part that required performing this technical bulletin	Damage Code	HST	Damage Location (Depends on Service No.)
9162 Control unit for multi-function steering wheel -J453-	0039	--	--
9340 Electric Drive Power and Control Electronics 2 -JX4- Three-Phase Current Drive 2 -VX97-	0039	--	--
9449 Steering Column Electronics Control Module -J527-	0039	--	--
9346 Electric Drive Power and Control Electronics -JX1-	0039	--	--



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		Three-Phase Current Drive -VX54-			
Parts Manufacturer:		ID.4		WWO	
Labor Operation ³⁾ : ODIS setup with 12V battery charger connection		01 50 00 10 = see Elsa for latest time units			
Labor Operation ³⁾ : Steps 1-2		Not applicable – Labor is accounted for within recall 97ZZ or campaign 97HB, 97HC, or 97H1.			
The additional operation below is applicable <u>only</u> if step 3 led to performing step 4.					
Labor Operation ³⁾ : Perform three bus sleep procedures		27 06 02 99 = 30 TU			
Causal Part:		Select labor operation 01 50 00 60			
Diagnostic Time ⁴⁾					
GFF Time expenditure	<u>Without</u> update procedure required in step 4	01 50 00 60 = Actual GFF printout – 50 TU max.		YES	
	<u>With</u> update procedure required in step 4	01 50 00 60 = Actual GFF printout – 250 TU max.		YES	
Road Test	01 21 00 02 = see Elsa for latest time units 01 21 00 04 = see Elsa for latest time units			NO	
Technical Diagnosis	01 32 00 00 = 00 TU max.			NO	
Claim Comment: Input “As per Technical Bulletin 2073909” in comment section of warranty Claim.					
<p>¹⁾ Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only.</p> <p>²⁾ Code per warranty vendor code policy.</p> <p>³⁾ Labor Time Units (TUs) are subject to change with ELSA updates.</p> <p>⁴⁾ Documentation required per Warranty Policies and Procedures Manual.</p>					



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Required Parts and Tools

No special parts required.

Tool Description	Tool No:
VAS Diagnostic Tool	VAS 6150/X & VAS 6160/X with ODIS Service with current online updates
VAS Battery Tester / Charger	VAS 5908

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.

Release Date	5/13/2024	Software Update Instructions	
ID. Software (ID.S) Version 3.2.12 Update According to Technical Bulletin 2073909/*			

Revision History		
Revision	Date	Purpose
1	May 13, 2024	Original publication

⚠ WARNING

- These instructions are applicable only to Technical Bulletin 2073909/*.
- For the update procedure to be covered under warranty, the conditions of Technical Bulletin 2073909/* must be satisfied (i.e., specific DTCs present at the start of diagnosis).

OVERVIEW of REPAIR STEPS

- Step 1 – Verify prerequisites for ID.S 3.2.12 are satisfied
- Step 2 – Complete software update via SVM
- Step 3 – Perform bus sleep
- Step 4 – Complete software configuration via SVM
- Step 5 – Perform bus sleep
- Step 6 – Perform “VKMS Adaptation” test plan
- Step 7 – End Guided Fault Finding and clear faults
- Step 8 – Complete remaining technical bulletin steps

Step 1 – Verify Prerequisites for ID.S 3.2.12

- Confirm that Technical Bulletin 2073909/* applies to the vehicle.
- Confirm that all prerequisite steps in Technical Bulletin 2073909/* are completed.
- Continue to step 2.

⚠ WARNING

- The ID.S software updates are incremental, and this update cannot be successfully performed if the prerequisite conditions are not satisfied.
- Damage resulting from improper repair or failure to follow these work instructions are not eligible for warranty reimbursement.

Step 2 – Update Software via SVM

NOTICE

Prior to launching the VAS Diagnostic Tester and starting an update, ensure the following conditions are met;

- ✓ **The ODIS software is completely up to date.**
 - Refer to the “Current ODIS Service Version” circular found in Elsa2Go Service References.
- ✓ **The battery charger is connected to the vehicle battery and remains connected for the duration of the software update.**
 - Battery voltage must remain above 12.5 volts for the duration of the software update. Failure to do so may cause the update to fail, which could result in damage to the control module. Control modules damaged by insufficient voltage will not be covered.
- ✓ **The screen saver and power saving settings are off.**
 - Failure to do so may result in the tester entering power save mode during the software update, which could result in damage to the control module.
- ✓ **The VAS Diagnostic Tester is plugged in using the supplied power adapters.**
 - Under no circumstances should the tester be used on battery power alone during the software update. Failure to do so may result in the tester powering off during the update, which could result in damage to the control module.
- ✓ **The VAS Diagnostics Interface MUST ONLY be connected to the tester with a USB cable.**
 - Performing a software update using a Bluetooth or WiFi connection increases the risk of losing connection during the update, which could result in damage to the control module. It also greatly increases the time required to perform the update. Requests for additional time or parts will be denied if the GFF log shows the update was performed using Bluetooth or WiFi.

WARNING

Radiator Fan(s) may cycle ON high speed during the Update Process! There is a serious risk that personal injury may result if contact is made with spinning fan blades. Keep hands and all objects away from Radiator Fan(s) during Update Process!

TIP

To Update-Programming using SVM, review and follow instructions in Technical Bulletin 2014603: *Software Version Management (SVM) Operating Instructions*.

The SVM Process must be completed in its entirety so the database receives the update confirmation response. A warranty claim may not be reimbursed if there is no confirmation response to support the claim.

NOTICE

If there are any ODIS "Hot-Fix" patches installed, they must be removed from the scan tool before beginning this operation. ODIS "Hot-Fix" patches may affect the update process.

Before starting the software update, the following conditions must be met:

- ODIS Service version MUST be completely up to date.
- Refer to the current information found in Elsa2Go Service References on the following topics:
 - ODIS Feedback must be set up correctly.
 - Dealership's internet firewall settings must meet the specified requirements.
 - ODIS user must have SFD access.
 - Windows Power Options must be set according to the ODIS tester setup directions.
- Only one key can be in the vehicle when performing this software flash.
- The vehicle key's battery must be ok.
- Any additional keys must be a minimum of 20 meters away from the vehicle.
- The car MUST NOT be hooked up to a high-voltage charger.
- If the work steps have to be interrupted for any reason, the best stopping point is at one of the bus sleep steps.

WARNING

Before starting programming, it is essential to perform the following actions for the -VAS5908- battery charger.

The battery charger's default setting will switch the charger off automatically after a period of time. To prevent this, the following must be carried out.

Switch it OFF and then ON again each time the charger is connected.

The battery charger's display must have switched off before it's restarted.

The charging time can be changed in the charger's settings menu (access code = 6161). Refer to the owner's manual for further information. DO NOT change any settings that will damage the charger or the vehicle.

WARNING

- Check for pre-existing faults.
- If any of the modules being updated are offline, the communication issue must be addressed prior to starting this procedure.
- Any module with a "Faulty Control Module" fault must be addressed prior to starting the flash. The flash may fail for the affected control module.
- Diagnosis and repair of pre-existing conditions are not covered under this action.

NOTE

If the customer is enrolled in Car-Net and they have the myVW app downloaded on their phone, they may receive several notifications during the update process.

Software update instructions:

- Switch off all consumers, air conditioning, heater blower motor, lights, heated seats, etc.
- Ensure the latest version of ODIS is downloaded.
- Ensure diagnostic head is connected to ODIS tester via USB cable.
- Move selector lever to P.
- Select “Special functions” > “Adapting software” > “Perform test”
- Enter SVM code **4C6E** and follow the on-screen prompts.
- Continue to Step 3.

Step 3 – Perform Bus Sleep

- Switch off the ignition.
- Turn off the hazards.
- Remove diagnosis interface from the vehicle diagnosis connection.
- Remove battery charger from the 12V battery.
- Close front and rear lid as well as all doors.
- Lock vehicle.
- Move vehicle key (remote control) at least 20 meters away from the vehicle.
- Wait at least 5 minutes until the vehicle is in bus sleep.
- Then unlock vehicle again.
- Connect and switch on battery charger.
- Insert diagnosis interface on vehicle diagnosis connection.
- Switch on the ignition.
- Place a vehicle key (remote control) in the center console on the reader coil.
- Continue to Step 4.

Step 4 – Perform Software Configuration via SVM

- Reconnect battery charger.
- Switch off all consumers, air conditioning, heater blower motor, lights, heated seats, etc.
- Ensure diagnostic head is connected to ODIS tester via USB cable.
- Move selector lever to P.
- Select “Special functions” > “Adapting software” > “Perform test”
- Enter SVM code **4C6F** and follow the on-screen prompts.
- Continue to Step 5.

Step 5 – Perform Bus Sleep

- Switch off the ignition.
- Turn off the hazards.
- Remove diagnosis interface from the vehicle diagnosis connection.
- Remove battery charger from the 12V battery.
- Close front and rear lid as well as all doors.
- Lock vehicle.
- Move vehicle key (remote control) at least 20 meters away from the vehicle.
- Wait at least 5 minutes until the vehicle is in bus sleep.
- Then unlock vehicle again.
- Connect and switch on battery charger.
- Insert diagnosis interface on vehicle diagnosis connection.
- Switch on the ignition.
- Place a vehicle key (remote control) in the center console on the reader coil.
- Continue to Step 6.

Step 6 - Perform “VKMS Adaptation” test plan

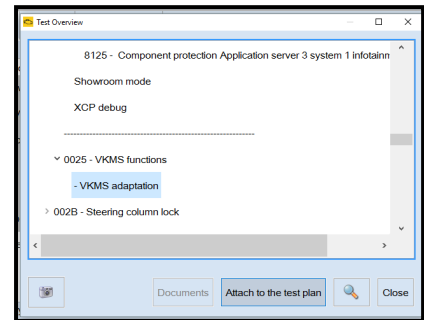
- Perform 0025 Immobilizer “VKMS Adaptation” test plan.



TIP

After selecting “Self Test,” use the search function and enter “VKMS” to aid in finding the test plan.

- Follow the on-screen prompts.
- Pay close attention to all steps outlined in the test plan and follow them exactly as described.
- Continue to Step 7.



Step 7 - End Guided Fault Finding and clear faults

- Exit Diagnosis and select “Yes” to end the diagnostic session.
- When prompted to continue Guided Fault Finding, select “NO”.
- GFF will be exited and faults will be erased.
- Static faults created by the flash process will remain.
- When prompted, select “YES” to populate new test plans.
- Work through all test plans for faults created by the flash process.
- Reference any applicable TSBs that address “ghost” faults.
- Pay close attention to all steps outlined in the test plans and follow them exactly as described.
- Exit GFF and send diagnostic protocol online.
- Continue to step 8.

NOTICE

Driver assist systems will not require re-calibration due to this software update.

WARNING

Perform a test drive above 20 mph/35 kph to calibrate the three-phase drive -VX54-.

When performing this road test, the vehicle will momentarily lose acceleration when the three-phase drive -VX54- calibrates. Ensure the road test is performed in a safe manner.

Step 8 – Complete remaining technical bulletin steps

- Ensure any remaining steps according to Technical Bulletin 2073909/* are completed.