



## 87-17-02 - Air Conditioning or Heating Inoperative

Release date: 6/6/2019

## Condition

Applicable Vehicles					
Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
e-Golf	2015-2016	All	All	All	All
e-Golf	2017	All	All	AU_HW900001	AU_HW950316

Revision Table			
Instance Number	Published Date	Version Number	Reason For Update
2043949/5	6/6/19	87-17-02	Change of Technical background. Change of Repair Procedure. Change of Parts information.
2043949/1	4/21/16	V871604	Original publication.

**Note:**

This bulletin must be read in its entirety before performing repairs.

**Customer states:**

- Air Conditioning Inoperative
- Heating Inoperative

## Technical Background

- The pressure/temperature sender has an electrical fault logged.

The pressure/temperature senders (4M0959603) for the Thermal management/Heat Pump system cannot not be auto addressed using the GFF function test. Therefore the senders for each LIN network must be replaced.

If one sender on either network LIN1 or LIN2 is to be replaced all senders must be replaced on that network so they all have the same index.

- LIN network 1 includes the following the sender for Refrigerant Pressure/Temperature: -**G395**- A/C Pressure/Temperature Sensor, -**G826**- A/C Pressure/Temperature Sensor 2 and -**G828**- A/C Pressure/Temperature Sensor 4.



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- LIN network 2 includes the following the sender for Refrigerant Pressure/Temperature: -**G827**- A/C Pressure/Temperature Sensor 3 and -**G829**- A/C Pressure/Temperature Sensor 5.

**Note:**

**A mix of part number indexes in the LIN network is not permitted as auto addressing will not be possible. All the senders in the LIN network need to be replaced.**

One of the following event entries can be logged in the -**J979**- Heating and Air Conditioning Control Module (examples for only sender 1 listed below)

- 0x00E696 P1C5900 A/C pressure/temperature sensor 1 Faulty
- 0x00E691 P1C5800 A/C pressure/temperature sensor 1 Faulty
- 0x00E697 P1C5900 A/C pressure/temperature sensor 1 Faulty
- 0x00E698 P1C5900 A/C pressure/temperature sensor 1 Faulty
- 0x009122 P1C5900 A/C pressure/temperature sensor 1 Faulty

**Note:**

The event entries may be logged for other Refrigerant Pressure/Temperature senders 1 thru 5.

## Production Solution

Optimized **auto addressing** sender for Refrigerant Pressure/Temperature.

From vehicle identification number WVWPP7AU\_HW950317.

## Service

An auto addressing of the original Refrigerant Pressure/Temperature Senders (Part number 4M0959603) cannot be performed. Therefore, in case of replacement all senders for Refrigerant Pressure/Temperature (new part number: 4M0 959 603 C) which are connected on a LIN bus (LIN network 1 or 2) with one another, have to be replaced.

Example 1: If sender -**G395**- A/C Pressure/Temperature Sensor has to be replaced, senders -**G826**- A/C Pressure/Temperature Sensor 2 and -**G828**- A/C Pressure/Temperature Sensor 4 will also have to be replaced.

Example 2: If sender-**G827**- A/C Pressure/Temperature Sensor 3 has to be replaced, sender -**G829**- A/C Pressure/Temperature Sensor 5 will also have to be replaced.

**Note:**

Only the Pressure/Temperature Sensor needs to be replaced, DO NOT replace the refrigerant line for these faults.

It is absolutely necessary to perform the basic setting "C5-fill the refrigerant circuit" using the Vehicle Diagnostic Tester so that all refrigerant circuit valves are open. Only then can the entire circuit be extracted.

DO NOT disconnect the Vehicle Diagnostic Tester from the vehicle during the entire extraction, evacuating and filling process.



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- Check/delete the event entry on the sender for the Refrigerant Pressure/Temperature according to the Guided Fault Finding.
- Replace the Refrigerant Pressure/Temperature Senders, See Repair Manual /Heating Ventilation and Air Conditioning > 87 Air Conditioning /Refrigerant Circuit in Elsa.
- Perform Auto Addressing of the Senders for Refrigerant Pressure/Temperature according to Guided Fault Finding/Guided Functions.

## Warranty

**Note:**

A GFF log must be included with the warranty claim.

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

Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
e-Golf	2015-2016	All	All	All	All
e-Golf	2017	All	All	AU_HW900001	AU_HW950316
SAGA Coding					
Claim Type:	Use applicable Claim Type <sup>1)</sup>				
Service Number:	Damage Code	HST		Damage Location (Depends on Service No.)	
8709	0040	--		--	
Parts Manufacturer		e-Golf		CY1 <sup>2)</sup>	
Labor Operation <sup>3)</sup> : Charge Battery			27068950 = See Elsa for latest time units		
Labor Operation <sup>3)</sup> : Refrigerant drain + refill			87031760 = See Elsa for latest time units		
Labor Operation <sup>3)</sup> : Remove and Install			88541903 (G395) = See Elsa for latest time units		
LIN Network1 Pressure /temperature sensor -G395-,G826 and G828 only			88541900 (G826) = See Elsa for latest time units		
			88541909 (G828) = See Elsa for latest time units		
Labor Operation <sup>3)</sup> : Remove and Install			88541906 (G827) = See Elsa for latest time units		
LIN Network 2 Pressure /temperature sensor - G827- G829 only			88541912 (G829) = See Elsa for latest time units		
Labor Operation <sup>3)</sup> : Disable HV system voltage			93100006 = See Elsa for latest time units		



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<b>Causal Part:</b>		4M0959603
<b>Outside Material:</b> ZVP000134		As Required (with Rob134APF print out)
<b>Diagnostic Time</b> <sup>4)</sup>		
<b>GFF Time expenditure</b>	01500000 = 20 TU max.	YES
<b>Road Test</b>	01210002 = 00 TU 01210004 = 00 TU	NO
<b>Technical Diagnosis</b>	01320000 = 00 TU max.	NO
<b>Claim Comment:</b> Input "As per Technical Bulletin 2043949" in comment section of Warranty Claim.		
<p><sup>1)</sup> Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only.</p> <p><sup>2)</sup> Code per warranty vendor code policy.</p> <p><sup>3)</sup> Labor Time Units (TUs) are subject to change with ELSA updates.</p> <p><sup>4)</sup> Documentation required per Warranty Policies and Procedures Manual.</p>		

## Required Parts and Tools

**Note:**

A GFF log must be included with the warranty claim.

Parts Description	Part Number
Sender for Refrigerant Pressure/Refrigerant Temperature	4M0 959 603 C

Tool Description	Tool No:
Midtronics Battery Tester/Charger	InCharge 940 (INC-940) or GRX3000VAS
VAS Diagnostic Tool	VAS 6150/X & VAS 6160/X with ODIS Service with: current online updates
A/C Machine	Rob134APF



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## 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.