

# Technical Service Bulletin



## 87 Air conditioning does not cool - P053000, P251500 stored in C5

87 23 38 2068460/2 January 31, 2023. Supersedes Technical Service Bulletin Group 87 number 22-35 dated November 9, 2022, for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A6 allroad, S6, A7, S7, A8, S8, e-tron Sportback quattro, Q5, SQ5, SQ7, Q8, SQ8, and RS Q8	2020 – 2022	All	Not Applicable
A8 e quattro	2020 – 2021		
RS 6 Avant, A7 e quattro, RS 7, e-tron quattro, Q5 e quattro, Q5 Sportback, and SQ5 Sportback	2021 – 2022		
e-tron S quattro, e-tron GT, and RS e-tron GT	2022		

## Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Warranty</i> (Change to max time allowed for GFF)
1	11/09/2022	Initial publication

### Customer states:

The air conditioning system does not cool the cabin. This condition may be intermittent in nature.

### Workshop findings:

The symptom is confirmed. One or both of the following DTCs are stored in Thermal management, J1024 (address word 00C5):

- **DTC P053000** – Air conditioning system pressure sensor electrical fault.
- **DTC P251500** – Refrigerant pressure sensor 2 electrical fault.



## Technical Background

A failure of the sensor electronics causes a loss of pressure evaluation. The sensor with base part number 4M0959603 and a build date *before* the date Calendar Week 31, 2021 is at issue (G395 / G827).

## Production Solution

An improved sensor has been implemented in production.

## Service

1. Should the vehicle present with the symptom profile described in this TSB inspect and/or replace all of the pressure sensors in the refrigerant circuit that are of the base part number 4M0959603 and have a build date before Calendar Week 31, 2021. Each model for which this TSB appears will have between 1 and 3 of this type of sensor installed at various positions in the refrigerant circuit, either on the low or high pressure sides of the circuit (G395 / G827).
2. Inspect the markings on the sensor to determine if the sensor has been previously replaced with an improved sensor produced after Calendar Week 31, 2021. Figure 1 shows the locations of the markings and their interpretation. In this example, while the sensor is an 'E' index sensor, contains a green dot on the connector housing and a laser marking on the aluminum housing the build date of the sensor is *before* Calendar Week 31, 2021, and would require replacement.



**Figure 1.** Pressure and temperature sensor markings and build date.

3. A sensor with index 'E', produced after Calendar Week 31, 2021, has a green dot on the connector housing, and has a laser marking on the aluminum housing is of the improved type and need not be replaced.

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## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"> <li>• 110 up to 48 Months/50,000 Miles.</li> <li>• G10 for CPO Covered Vehicles – Verify Owner.</li> <li>• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.</li> </ul>		
<b>Service Number:</b>	8757		
<b>Damage Code:</b>	0040		
<b>Labor Operations:</b>	<b>A6 / A7:</b>		
	Pressure switches (both) remove and reinstall	8757 1900	See SRT with associated operations
	Refrigerant drain and fill	8703 1750	See SRT with associated operations
	<b>Q7 / Q8:</b>		
	Pressure switches (both) remove and reinstall	8757 2093	See SRT with associated operations
	Refrigerant drain and fill	8703 1750	See SRT with associated operations
	<b>A8:</b>		
	PHEV: Pressure switch (G395) remove and reinstall	8757 1950	See SRT with associated operations
	-OR		
	Not PHEV: Pressure switches (G395) remove and reinstall	8757 1900	See SRT with associated operations
	Refrigerant drain and fill	8703 1750	See SRT with associated operations
	<b>e-tron GT:</b>		
	Storage compartment remove and reinstall	7007 1900	See SRT with associated operations

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	Wheel remove and reinstall	4405 1951	See SRT with associated operations
	Cross brace remove and reinstall	5069 1960	See SRT with associated operations
	Disable HV system voltage deactivated and activated	9310 8302	See SRT with associated operations
	Wiper motor remove and reinstall	9215 1950	See SRT with associated operations
	Pressure switches (all 3) remove and reinstall	8709 2099	190 TU
	Refrigerant drain and fill	8703 1750	See SRT with associated operations
	<b>Q5:</b>		
	Pressure switches (both) remove and reinstall	8709 1901	See SRT with associated operations
	Refrigerant drain and fill	8703 1750	See SRT with associated operations
	<b>e-tron:</b>		
	Pressure switches (all 3) remove and reinstall	8709 2099	190 TU
	Refrigerant drain and fill	8703 1750	See SRT with associated operations
<b>Diagnostic Time:</b>	GFF	0150 0000	Time stated on the diagnostic protocol (Max 50 TU)
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	No allowance	0 TU
<b>Claim Comment:</b>	As per TSB 2068460/2		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.



## Required Parts and Tools

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
4M0959603E	 Pressure and temperature sensor	1 - 3

## Additional Information

All parts and service references provided in this TSB (**2068460**) are subject to change and/or removal. ©2023 Audi of America, Inc. All rights reserved. The information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Audi of America, Inc., its affiliated companies, and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.