



# Technical Service Bulletin

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## 87 GFF test plan required for A/C compressor replacements regardless of concern

87 21 16 2041717/7 September 14, 2021. Supersedes Technical Service Bulletin Group 87 number 19-91 dated June 21, 2019 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
All	2010 - 2022	All	Not Applicable

## Condition

REVISION HISTORY		
Revision	Date	Purpose
7	-	Revised header (Added Model Year 2022) Revised <i>Service</i> (Clarification of test plan location in ODIS including BEV and PHEV vehicles) Revised <i>Service</i> (Remove TAC contact requirement)
6	06/21/2019	Revised header (Removed Audi e-tron quattro)
5	07/25/2018	Revised header (Added MY2019 - 2021 vehicles) Revised <i>Service</i> (Updated Note)

This bulletin applies to any repair that requires replacement of the air conditioning compressor.

## Technical Background

Any replacement of A/C compressors—regardless of the reason for failure—must include an ODIS GFF cooling performance test plan (Function Test Log version) of the A/C system with documentation of the recovered refrigerant volume. This GFF test plan requirement is mandatory without exception.

## Production Solution

Not applicable.



# Technical Service Bulletin

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## Service

Before replacing the A/C compressor, run the ODIS GFF test plan. The test plan is in various locations in the navigation depending on the vehicle being serviced. Since the A/C cooling performance test is a 'function test' it is generally found by navigating to sub-headers such as 'functions', 'other functions' or 'general function tests' in either 08 - Heating and Air Conditioning Electronics or in C5 – Thermal Management Control Module in the case of BEV and PHEV vehicles. The test plans are generally navigated in the following examples:

### Vehicles with 08 - Heating and Air Conditioning Electronics:

1. Navigate to the Guided Functions tab of the diagnosis program, *Select 08 – Front A/C display control head – E87- >> 08 Heating/Air Conditioning Electronics, functions >> 08-Other Functions.*

Skip to Step 2.

Or

1. Navigate to the Test plan tab of the diagnosis program, *Select Body >> Heating / Air Conditioning >> 01 – On Board Diagnostic (OBD) capable systems >> 08 Climatronic control module, functions J255 >> 08-General function tests.*

Skip to Step 2.

### BEV Vehicles with C5 - Thermal Management Control Module:

1. Navigate to *Diagnostic capable system >> 00C5 - Thermal Management Control Module -J1024- >> 00C5 - Thermal management control module, functions >> 00C5 - Basic Setting >> 00C5 - Basic setting complete.*

Skip to Step 2.

### PHEV Vehicles with C5 - Thermal Management Control Module:

1. Navigate to *Body >> Heating / Air Conditioning >> 01 - On Board Diagnostic (OBD) capable systems >> C5 - Thermal Management Control Module -J1024- >> 00C5 – Thermal management control module, functions >> 00C5 - Basic Setting >> 00C5 - Basic setting complete.*

2. Once the function test has been added to the list of “Tests in current test plan” select “Vehicle is not cooling”.

3. The cooling system performance test plan can then be completed following the prompts.

4. If the A/C performance test returns “No malfunctions”, then no repairs are needed. The system is operating properly.

If the A/C performance test returns a malfunction, perform diagnosis and repair the system as needed. If the compressor is found to be faulty according to the test plan and is replaced please:

- Upload a final protocol of the Diagnostic Log to GFF Paperless.
- Print out and attach the “Function Test” version of the diagnostic log to the replaced compressor for return to the WPRC. It is not necessary to print and attach the complete diagnostic log. Only the test plan section is required.



# Technical Service Bulletin



**Note:**

As previously mentioned the cooling performance test plan is in various locations in the navigation depending on the vehicle and equipment level. This variation in test plan location does not in any way waive the requirement for this test plan to be run before an air conditioning compressor is replaced. If the test plan is missing or cannot be found in ODIS please file an ODIS Feedback.



**Note:**

All other applicable bulletins apply. See TSB 2035582: *87 A/C compressor replacement* for information on required documentation of recovered refrigerant volume up to and including MY2017.

## 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>	8734		
<b>Damage Code:</b>	0016		
<b>Diagnostic Time:</b>	GFF	0150 0000	Time stated on the diagnostic protocol (Max 100 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	No allowance	0 TU
<b>Claim Comment:</b>	As per TSB #2041717/7		

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.

## Additional Information

The following Technical Service Bulletin(s) will be necessary to complete this procedure:

- TSB 2035582, *87 A/C compressor replacement*.



# Technical Service Bulletin

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All parts and service references provided in this TSB (2041717) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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