



Technical Service Bulletin

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

87 16 79 2041717/4 November 17, 2016. Supersedes Technical Service Bulletin Group 87 number 16-76 dated September 16, 2016 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
All	2010 - 2018	All	A/C Compressor

Condition

REVISION HISTORY		
Revision	Date	Purpose
4	-	Revised <i>Service</i> (Clarification of test plan location in ODIS) Revised <i>Additional Information</i> (Added reference)
3	09/16/2016	Revised Header (added MY 2018 vehicles) Revised <i>Service</i> (updated ODIS screenshots)
2	09/24/2015	Revised title Revised <i>Condition</i> (Completely revised) Revised <i>Technical Background</i> (Clarified test plan requirement for all compressor replacements regardless of reason) Revised <i>Warranty</i> (Changed Damage Code)

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 of the A/C system with documentation of the recovered refrigerant volume. This GFF test plan requirement is mandatory without exception.



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Production Solution

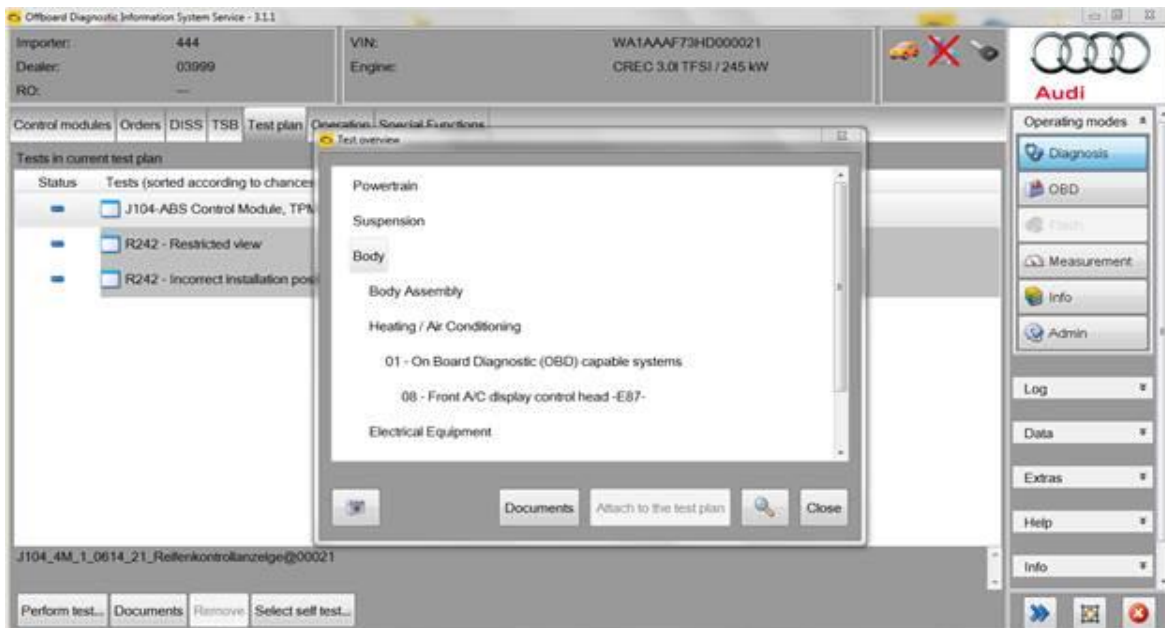
Not applicable.

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 Heating and Air Conditioning Electronics. The following are two examples.

2017 Q7 (with 3-zone climate control):

1. Navigate to the Test plan tab of the diagnosis program (Figure 1). Select *Body>>Heating / Air Conditioning>>01 – On Board Diagnostic (OBD) capable systems>>08 – Front A/C display control head – E87->>08 Heating / Air Conditioning Electronics, functions>>08-Other Functions*.



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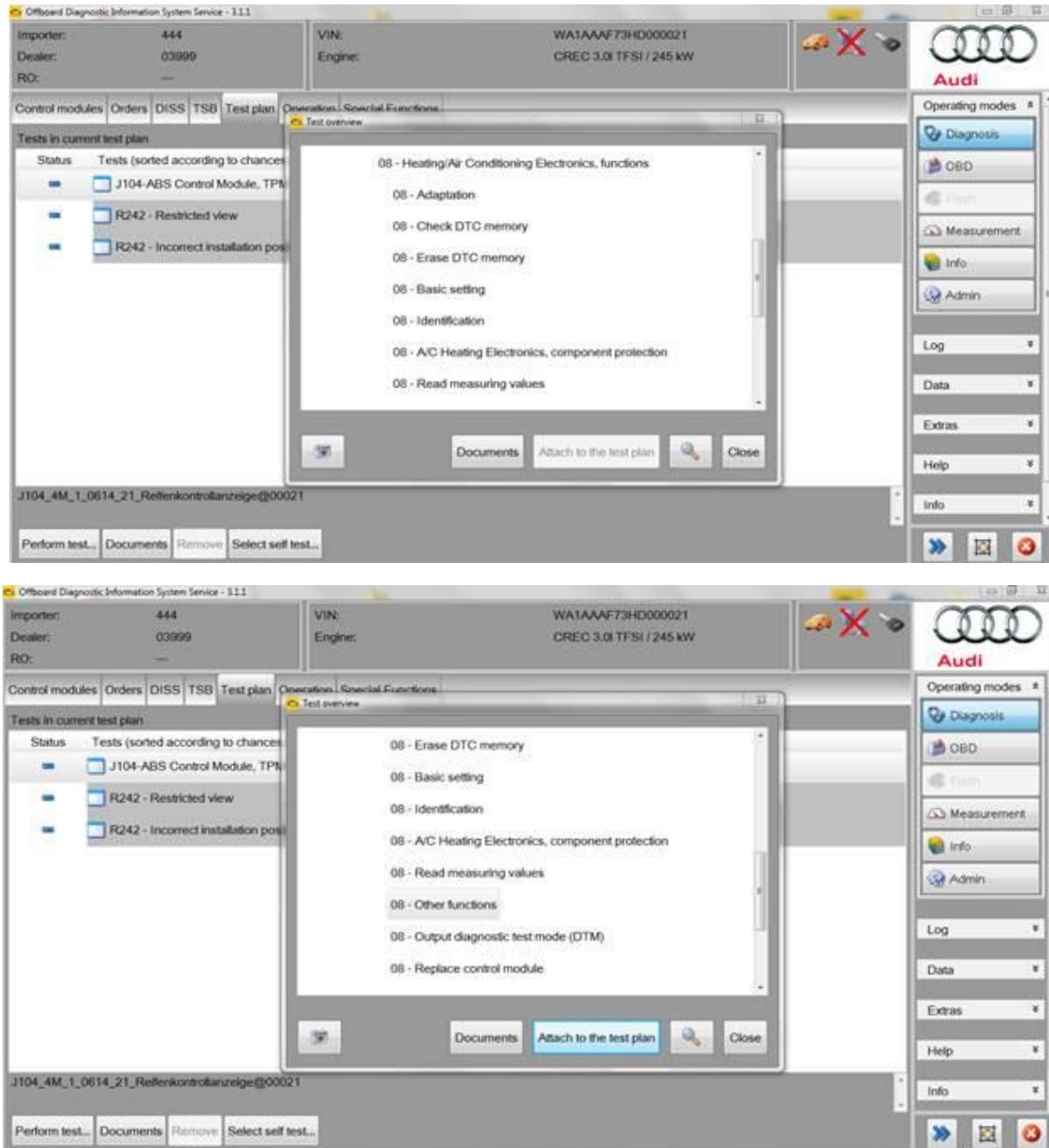


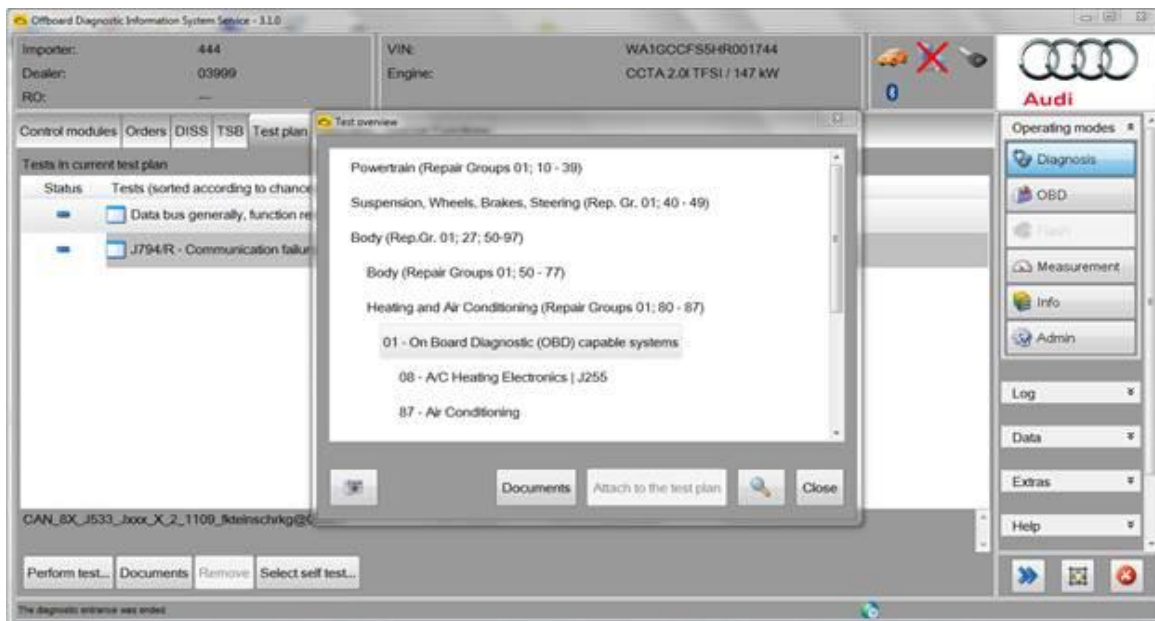
Figure 1. Cooling performance test plan navigation on a 2017 Q7 with 3-zone climate control.



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2017 Q3:

2. Navigate to the Test plan tab of the diagnosis program (Figure 2). Select *Body>>Heating / Air Conditioning>>01 – On Board Diagnostic (OBD) capable systems>>08 Climatronic control module, functions J255>>08-General function tests.*



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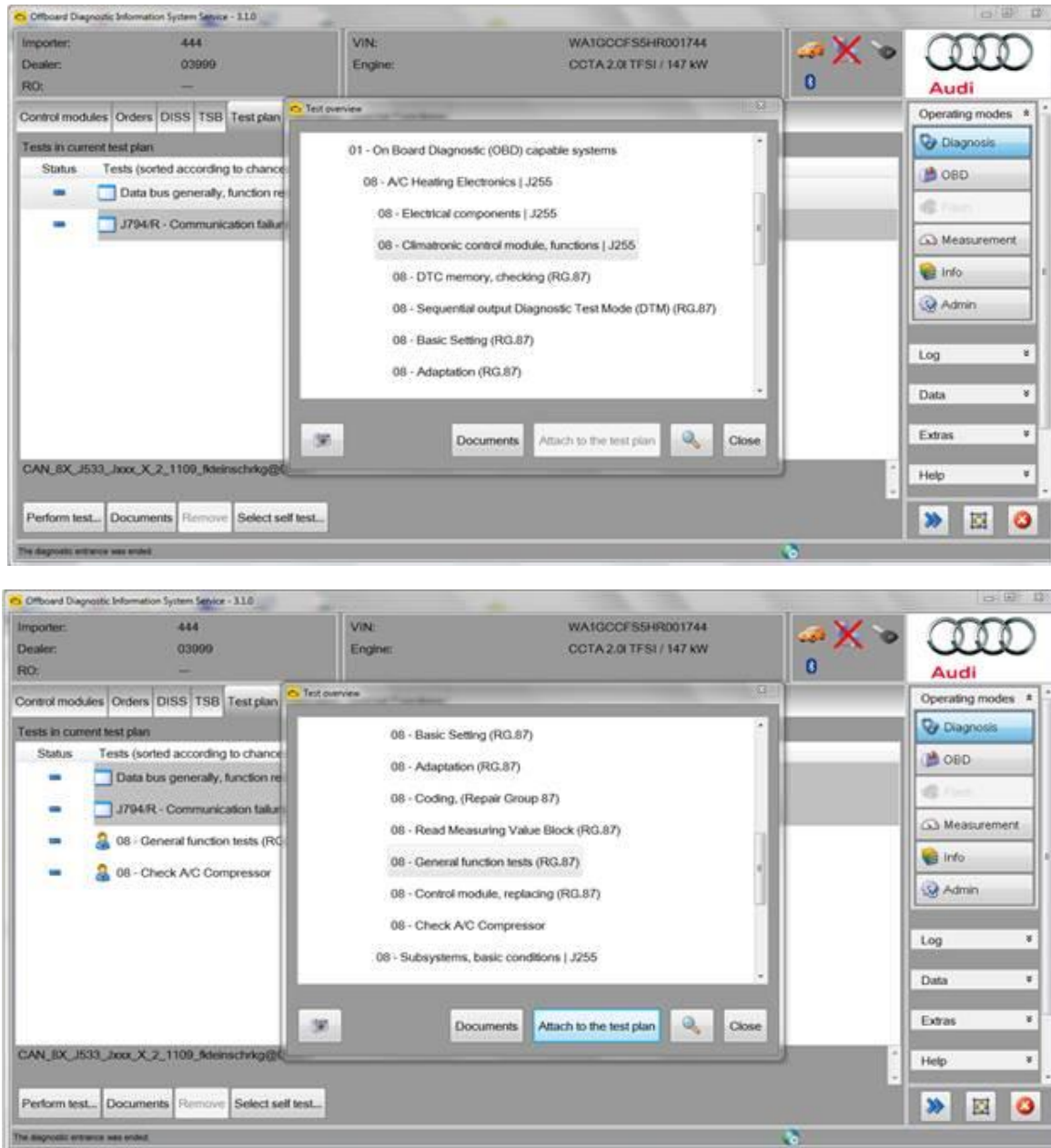


Figure 2. Cooling performance test plan navigation on a 2017 Q3.

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

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

5. 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 the “Long” version of the Diagnostic Log to GFF Paperless. It is not necessary to print this version.
- Print out and attach the “Function Test” version of the diagnostic log to the replaced compressor for return to the WPRC (Figure 3). It is not necessary to print and attach the “Long” version of the diagnostic log.

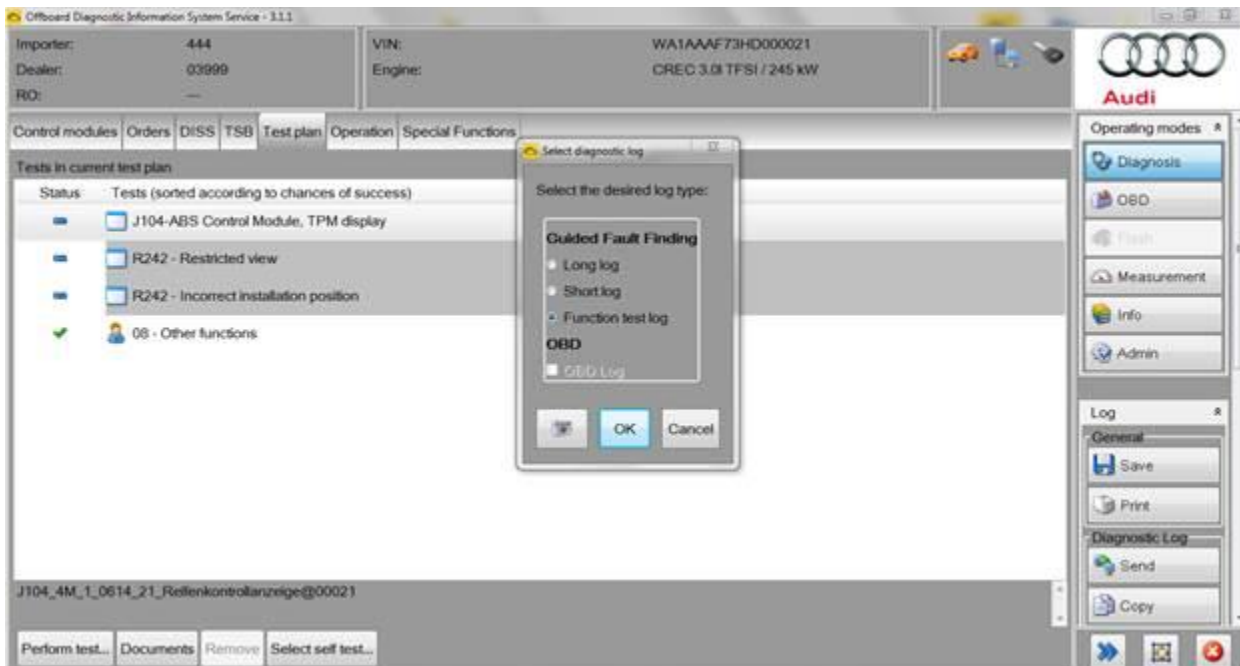


Figure 3. Only print a copy of the Function test version of the diagnostic log and attach to the replaced compressor.



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6.  **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. Consult the Technical Assistance Center (TACS) for assistance, if necessary, before replacing an air conditioning compressor without a GFF test plan supporting the replacement.

 **Note:**

All other applicable bulletins apply. See TSB 2035582 for information on required documentation of recovered refrigerant volume.

Warranty

Claim Type:	<ul style="list-style-type: none"> • 110 up to 48 Months/50,000 Miles. • G10 for CPO Covered Vehicles – Verify Owner. • If vehicle is outside any warranty, this Technical Service Bulletin is informational only. 		
Service Number:	8734		
Damage Code:	0016		
Diagnostic Time:	GFF	0150 0000	Time stated on diagnostic protocol (Max 100 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	No allowance	0 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
Claim Comment:	As per TSB #2041717/4		



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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

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.

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

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

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