

Complaint - Rattling Noise from Around the Crank Drive: Observe Specifications (147/18)

Revision: This bulletin replaces bulletin Group 1 147/18, dated November 19, 2018.

Model Year: **As of 2018**

Vehicle Type: **911 Carrera GT3 (991) / 911 Carrera GT3 RS (991) / 911 Carrera Speedster (991)**

Concerns: **Engine**

Information:



Information

- **Engines are being replaced or attempts at repairs due to complaints about noise coming from around the oil pump/crank drive.**
- The engines, for which complaints were received and which were replaced, were examined on the test stand.

⇒ In the event of a customer complaint, the noise in question must be compared with the noise in the sound file before doing any other work, see PIWIS information system ⇒ **1001_147_18_Soundfile** and 'Procedure' section (in this Technical Information).

Following **analysis of the queried rattling noise**, we can clarify the following points:

- It is a **specific noise from the engine mechanicals**,
- has **no effect on correct engine operation** and
- can occur on every 911 GT3/911 GT3 RS with 4.0-liter engine from model year 2018.

⇒ Replacing the engine is not justified in the event of a complaint about this noise.

Work

Procedure:



Hot components

- **Risk of burns**

⇒ **Let hot components cool down.**

⇒ **Wear personal protective gear.**

Listen to the noise coming from the vehicle and compare it with the recording in the sound file.

To document the problem in PQIS, record the noise and attach the sound file to the PQIS job.

- 1 Remove cover for rear underbody, see ⇒ *Workshop Manual '519419 Removing and installing cover for rear underbody'*
- 2 The following conditions must be met in order to compare the noise coming from the vehicle:
 - The engine oil temperature is approx. 90° [C] ⇒ engine is at operating temperature.
 - The measurement is taken at a distance of approx. 1 meter straight under the center of the oil guide module.
 - The engine is running at idle speed ⇒ revs are increased to 2,000 rpm ⇒ revs oscillate between 2,000 rpm and 2,500 rpm ⇒ revs drop to idle speed.
- 3 Compare the noise with the stored sound file (see **3D Information**).
If the noise is the same, inform the customer about this technical issue.
- 4 Install cover for rear underbody, see ⇒ *Workshop Manual '519419 Removing and installing cover for rear underbody'*

3D Information: A sound file of the engine noise is stored under the following link.

1001IN Complaint: Rattling noise, crank drive information

Invoicing: The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
51941900	Removing and installing rear covers	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	10010	Engine
Damage type (SA4)	2021	clanking, whirring

References: ⇒ *Workshop Manual '519419 Removing and installing cover for rear underbody'*

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2022 Porsche Cars North America, Inc.