



Ferrari North America

Technical Information

Date:	June 2017
Bulletin #:	2398
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Section:	3

Model Type: 488 GTB/Spider, F12 TDF
Model Year: All
Subject: Replacing gearbox speed sensor- Level 3

Please find enclosed the **Level 3** procedure for replacing the **DCT gearbox speed sensor** for **488 GTB, 488 Spider and F12tdf** vehicles.

▪ **Protocol for Managing Repairs on a DCT Gearbox received from another Dealer**

- A) You will receive the DCT gearbox from the Dealer (i.e., a dealer NOT authorized to perform Level 3 operations) accompanied by the relative supporting technical documentation (“DCT Gearbox Pre-Diagnosis Form”, provided in Technical Information **2389**).
- B) After verification of the information received in the “DCT Gearbox Pre-Diagnosis Form”, the relative kit necessary may be ordered from our Spare Parts Department, subject to prior authorization from SAT.
- C) After completing the repair work, you will be authorized to issue an invoice to the dealer for reimbursement of the work done, structured as follows:
- Labor cost according to ST Schedule in relation to vehicle model;
 - Spare parts costs relative to kits ordered (net cost only).

Note: Any transport costs applicable must not be paid by you

Replaced parts must be kept for at least 6 months, so that they may be returned if requested or authorized for scrapping by SAT.

- IMPORTANT -

The Authorised Ferrari Dealer must complete the repair work on the DCT gearbox within three working days of receiving the gearbox.



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- **Protocol for Managing Repairs on a DCT Gearbox in a vehicle in your workshop**
 - Prior to any procedure, appropriate self-certification must be sent to SAT to obtain authorization to order the requested kit.
 - In order to do this, the Dealer must compile the “DCT Gearbox Pre-Diagnosis Form” attached to Technical Information **2389**.
 - This form must be sent together with the order request by e-mail to our Spare Parts Department

Replaced parts must be kept for at least 6 months, so that they may be returned if requested or authorised for scrapping by SAT.

- IMPORTANT -

After completing first level diagnosis, you are required to compile the “DCT Gearbox Pre-Diagnosis Form” attached to Technical Information 2389, and attach it to a new Red Online (ROL) with a scan-in, and DTC freeze frame data.

In the event of a gearbox received from another dealer, print the aforementioned document and attach it to the return shipping documentation of the gearbox itself.

- IMPORTANT -

The S.T. Schedule for the model in question includes a specific table, viewable from the March 2017 update to the Technical Documentation, indicating the corresponding operation codes for the procedures performed, which are necessary to request reimbursement under warranty.



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In addition to the tools and equipment already specified for Level 1 and Level 2 procedures, the following tools and equipment are necessary to perform this procedure:

- Extractor cup for 7th gear wheel needle bearing cage **Part No. 95978627 (AV 8627)**;
- Extractor cup for 1st, 2nd and Reverse gear wheel needle bearing cage **Part No. 95978628 (AV 8628)**;
- Punch for extractor cup for 1st, 2nd and Reverse gear wheel needle bearing cage **Part No. 95978630 (AV 8630)**;
- Punch for extractor cup for 7th gear wheel needle bearing cage **Part No. 95978816 (AV 8816)**;
- Conical guide tip for installing synchronizer rod in oil seal **Part No. 95978817 (AV 8817)**;
- Cone for gear set housing assembly rods **Part No. 95978820 (AV 8820)**;
- Park Lock locking tool **Part No. 95978823 (AV 8823)**;
- Reverse shaft height measuring tool **Part No. 95978824 (AV 8824)**.

The part to be installed is:

- STEP 3 SPEED SENSOR KIT_ 488_F12tdf **Part No. 70003919 Qty. 1**

This spare part number may be ordered by you for vehicles with a valid manufacturer's warranty or extended warranty, **ONLY after opening an ROL (Red On Line) and receiving authorization from the Technical Service Department.**

- IMPORTANT -

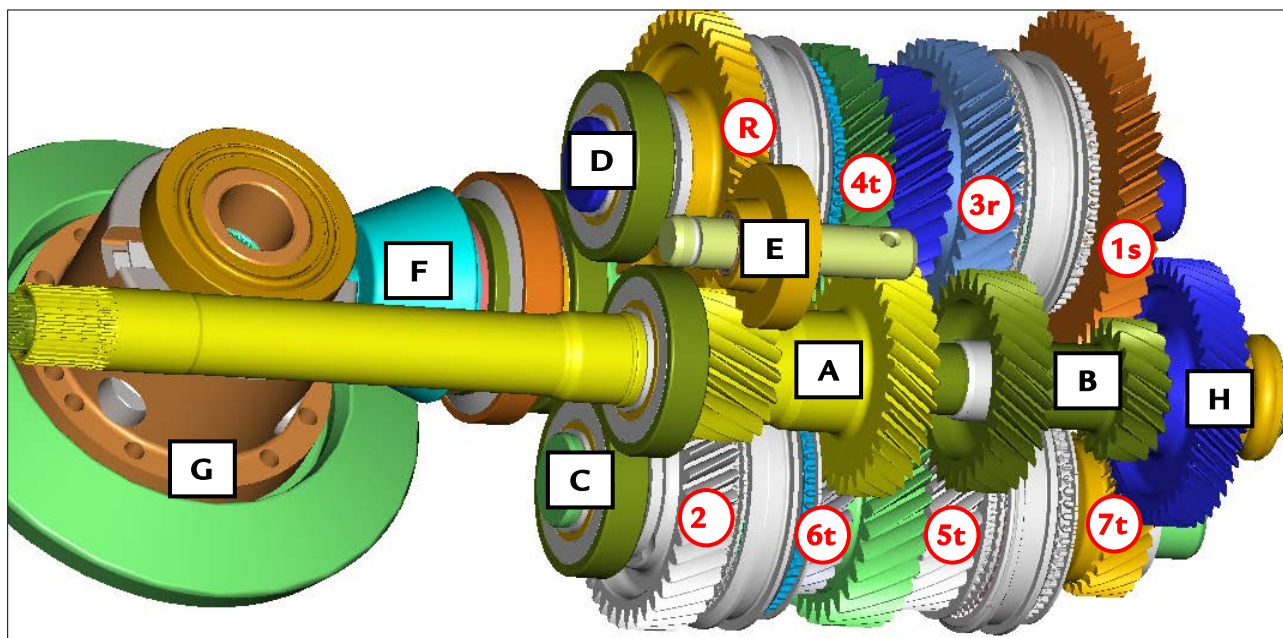
The Level 3 operation may only be performed by Trained Technicians at Authorized Ferrari Dealers that have completed the “Level 3 DCT Gearbox” course.

Dealers still without authorisation must send gearboxes for repair to the geographically closest Authorized Ferrari Dealer. Contact your ABM for this arrangement.



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GEARBOX GEARSET OVERVIEW



- A. Even gear primary shaft
- B. Odd gear primary shaft
- C. Secondary shaft, 2nd-6th-5th-7th gear
- D. Secondary shaft, R-4th-3rd-1st gear
- E. Reverse idler gear
- F. Output pinion shaft
- G. Differential
- H. Primary 7th speed gear

[Gearbox speed sensor replacement](#)

For the detailed operating procedure, see the last Technical Information on this topic, referring to models prior to the California T.

Thank you for your co-operation.