



Ferrari North America

Technical Information

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Model Type: 488 GTB/Spider
Model Year: All
Subject: Repair procedures for DCT gearbox – Level 2

The **Level 2** operations to be performed on the DCT gearbox in **488 GTB** and **488 Spider** vehicles, in relation to the malfunction and/or oil leak identified, are described as follows.

Protocol for Managing DCT Gearbox Repairs

- Prior to any procedure, you need to acquire authorization from the FNA HelpDesk via ROL 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

- IMPORTANT -

Only Trained Technicians at Authorized Ferrari Dealers that have completed the course on Level 2 procedures for the DCT gearbox are authorized to perform Level 2 procedures.

- IMPORTANT -

After completing the 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)



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- 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.

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

Possible operations in relation to fault identified (“Level 2” procedures)

1. Replacing SAP;
2. Replacing CCP;
3. Replacing front connector casing;
4. Leakage.

The following tools and equipment are necessary to perform these procedures:

- Swivel-head base Part. No. 95972621 (AV 2621)
- Gearbox overhaul support Part. No. 95977314 (AM 107314)
- Rear cover extractor Part. No. 95978603 (AV 8603)
- Gearbox presser tool Part. No. 95978604 (AV 8604)
- Lift bracket for central section of gearbox Part. No. 95978605 (AV 8605)
- Lift bracket for rear section of gearbox Part No. 95978606 (AV 8606)
- Gearbox housing alignment pin Part. No. 95978607 (AV 8607)
- Axle shaft oil seal installation punch Part. No. 95978608 (AV 8608)
- Transmission shaft oil seal extractor Part. No. 95978609 (AV 8609)
- Internal gearbox plug Part. No. 95978611 (AV 8611)
- External gearbox pressurizing plugs Part. No. 95978612 (AV 8612)
- Cap and punch for rear gearbox cover Part. No. 95978613 (AV 8613)
- Tool for tightening bevel gear set ring nut Part. No. 95978619 (AV 8619)

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- Bevel gear set extractor **Part. No. 95978620 (AV 8620)**
- Adapter for rear gearbox cover extractor **Part No. 95978626 (AV 8626)**

- IMPORTANT -

If not already in your possession, these tools must be ordered by you directly from our Spare Parts Department in the quantities needed.

The parts to be installed, in relation to the type of intervention required, are as follows:

- SAP F152VS KIT (W) **Part No. 70004637 Qty. 1**
- CCP F152VS KIT (W) **Part No. 70004638 Qty. 1**
- FRONT CONNECTION KIT (W) F142M **Part No. 70004780 Qty. 1**
- SERVICE LEVEL 2 SCREW **Part. No. 70003093 Qty. 1**

The part numbers of the kits required for this procedure are indicated in the following table.

The following kits must be ordered directly from our Spare Parts Department in the quantities needed.

	488 GTB 488 Spider
1. SAP replacement	70004637
2. CCP replacement	70004638
3. Replacing front connector casing	70004780 70004640
4. Leakage*	70003093 70004640

* For leaks found between the differential housing and gearbox case, do not order the KIT Part. no. 70003093, as the housing and gearbox fastener screws and nuts may be used for three assemblies.



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Procedure

- IMPORTANT -

The utmost cleanliness must be maintained during ALL of the following operations; always wear clean gloves, replacing them frequently as needed, and use absorbent lint-free cloth and heptane to clean and degrease components.

- IMPORTANT -

When carrying out the following replacement procedures, the screws fastening the components (gearbox case, SAP and CCP) and the gaskets removed during the procedure must ALWAYS BE REPLACED upon reassembly.

- IMPORTANT -

Check the expiration date of all products used in the following procedures before use.
NEVER use EXPIRED products.

Preparations for procedures

For the detailed operating procedure, see the last Technical Information on this topic (Level 2 repairs), in the section relative to the F12berlinetta.

1. SAP replacement

For the detailed operating procedure, see the last Technical Information on this topic (Level 2 repairs), in the section relative to the F12berlinetta.



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2. CCP replacement

For the detailed operating procedure, see the last Technical Information on this topic (Level 2 repairs), in the section relative to the F12berlinetta.

3. Front connector casing

For the detailed operating procedure, see the last Technical Information on this topic (Level 2 repairs), in the section relative to the 458 Italia.

4. Leakage

The following cases are classified as level 2 leaks:

- Leakage between rear cover and gearbox case;
- Leakage between gearbox case and differential housing;
- Leakage between differential housing and front connector casing;

Leakage between rear cover and gearbox case

For the detailed operating procedure, see the last Technical Information on this topic (Level 2 repairs), in the section relative to the F12berlinetta with rear cover equipped with bushes for fastening the single oil heat exchanger.

Leakage between gearbox case and differential housing

For the detailed operating procedure, see the last Technical Information on this topic (Level 2 repairs), in the section relative to the F12berlinetta.



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Leakage between differential housing and front connector casing

For the detailed operating procedure, see the last Technical Information on this topic (Level 2 repairs), in the section relative to the 458 Italia.

System pressurization procedure

For the detailed operating procedure, see the last Technical Information on this topic, referring to models prior to the 488.

Procedure for marking repaired gearbox

For the detailed operating procedure, see the last Technical Information on this topic, referring to models prior to the 488.

Self-acquisition procedure

For the detailed operating procedure, see the last Technical Information on this topic, referring to models prior to the 488.

SAP - CCP identification codes

For the detailed operating procedure, see the last Technical Information on this topic, referring to models prior to the 488.

Thank you for your co-operation.