



Ferrari North America

Technical Information

Date: June 2017
Bulletin #: 2406
Campaign #:
Supersedes:
Section: 3

Model Type: 458 Italia/Spider/Speciale/Speciale A, FF , F12 Berlinetta, California/California T
Model Year: All
Subject: Replacing CCP temperature sensor

Please note that the following procedures may be performed on the CCP unit of the DCT gearbox in the aforementioned models.

As a result, whenever a vehicle is brought to the workshop with a fault in the DCT gearbox as indicated on page 8, the individual component of the CCP may be replaced as described, subject to prior authorization from SAT, and it will no longer be necessary to replace the complete CCP.

Protocol for Managing DCT Gearbox Repairs

- 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.

- 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 this procedure to replace the CCP temperature sensor.

- 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.



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- IMPORTANT -

As of the March 2017 update to the Technical Documentation, the S.T. Schedule for the aforementioned models contains 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.

The following procedures are possible, in relation to the fault identified (see error list on page 8 of this document):

➤ Replacing CCP temperature sensor (Fig. 1)

In addition to the tools and equipment already specified for Level 1 and Level 2 procedures, the following tool/equipment (also indicated in the specific Technical Information relative to replacing the CCP pressure sensors) are necessary to perform these procedures:

- CCP carrier plate **Part No. 95978837** (AV 8837);

- IMPORTANT -

If this tool is not already in your possession, it must be ordered directly from our Spare Parts Department.

The parts to be installed, in relation to the type of operation necessary, are as follows:

- GEARBOX TEMPERATURE SENSOR (W) **Part No. 70003930** Qty. 1
(applicable for **Ferrari California, 458 Italia, 458 Spider, 458 Speciale, 458 SpecialeA and FF**);



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- GEARBOX TEMPERATURE SENSOR, F152 (W) **Part No. 70004822** Qty. 1
(applicable for **F12berlinetta**);
- GEARBOX TEMPERATURE SENSOR, F149M (W) **Part No. 70004783** Qty. 1
(applicable for **CaliforniaT**).

The aforementioned spare part number, may be ordered, **ONLY** for vehicles covered by the manufacturer's warranty or extended warranty and **ONLY once the relative diagnosis has been submitted to our Help Desk via an ROL (Red On Line) and approved.**

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.

	Ferrari California 458 Italia 458 Spider 458 Speciale 458 SpecialeA FF	F12berlinetta	CaliforniaT
1. Replacing CCP temperature sensor	70003930	70004822	70004783

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.



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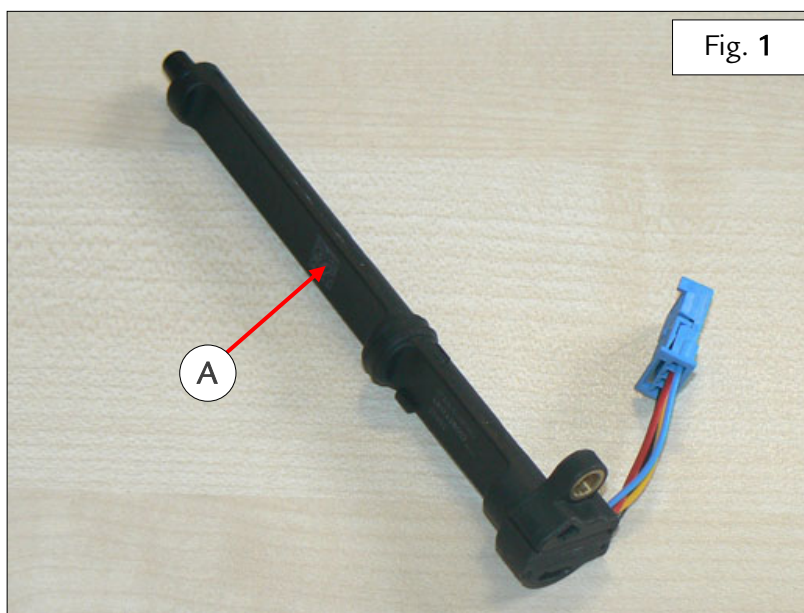
- IMPORTANT -

When carrying out the following replacement procedures, the screws fastening the components (gearbox case 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.

- CCP temperature sensor (A) (Fig. 1)



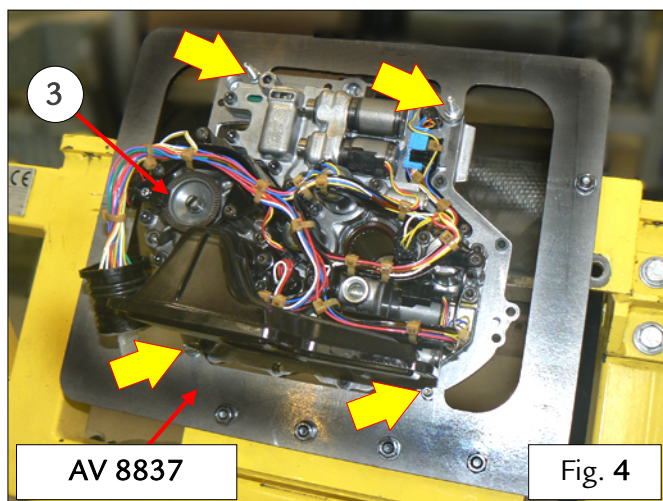
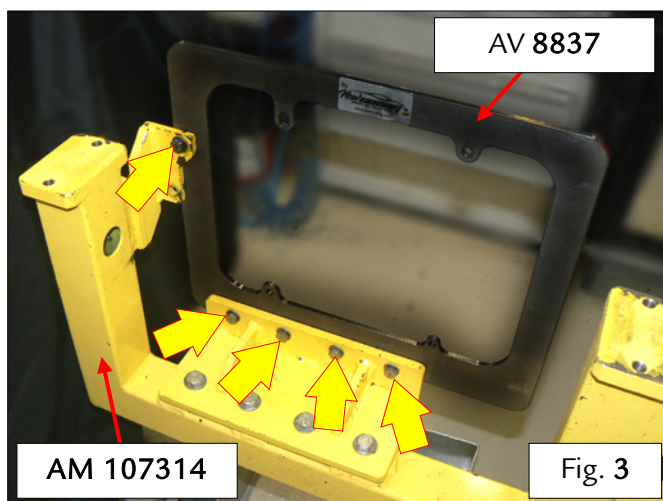
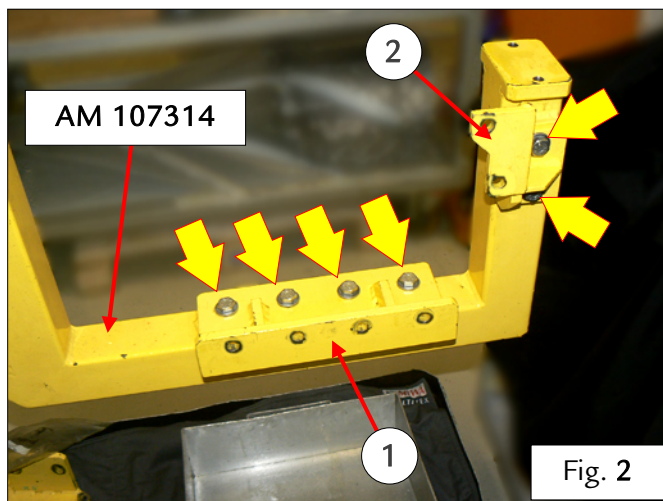
- IMPORTANT -

Handle the new sensor with care to prevent damage.



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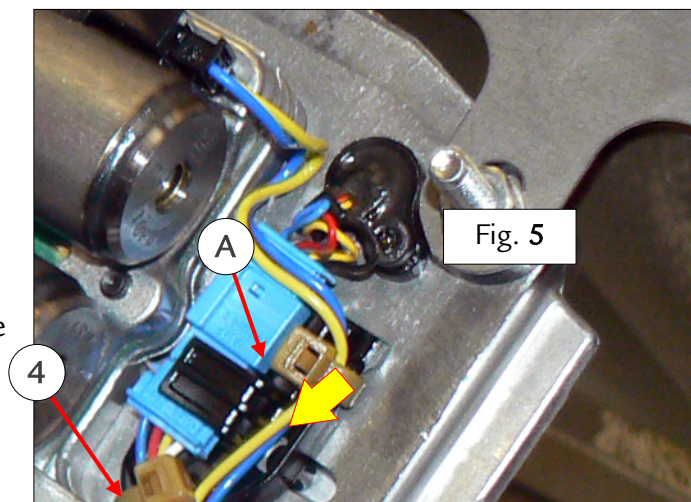
- Fit the additional lower plate (1) and the additional right hand lateral plate (2) on tool **AM 107314**, fastening with the respective fastener screws included with the tool – Fig. 2.
- Fit the CCP carrier plate **AV 8837** on tool **AM 107314**, fastening with the respective screws and nuts indicated included with the tool – Fig. 3.
- Remove the CCP (as indicated in the most recent Technical Information on the topic for the respective model).
- Mount the CCP (3) on the relative carrier plate **AV 8837**, fastening with the respective screws and nuts indicated included with the tool – Fig. 4.



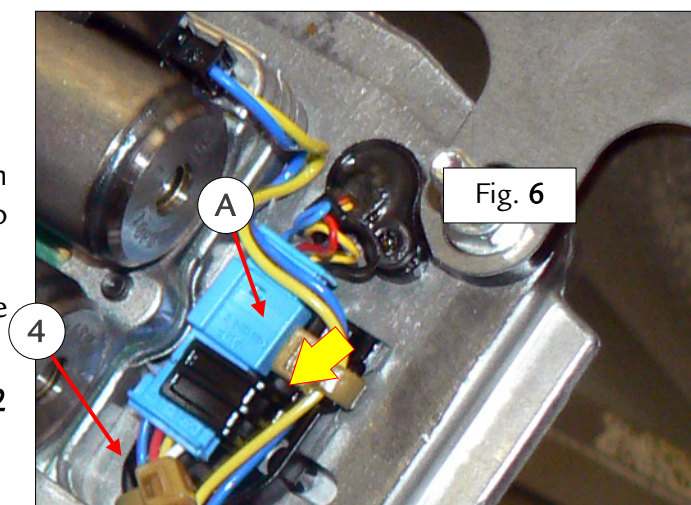


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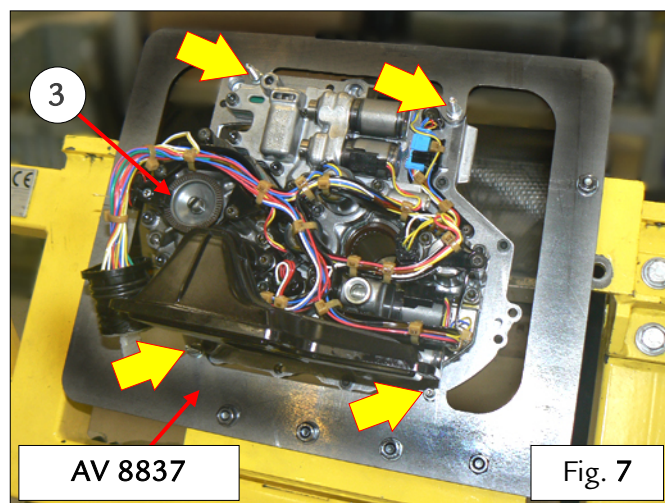
- Disconnect the connector (4) – Fig. 5.
- Undo the indicated screw – Fig. 5.
- Remove the temperature sensor (A) from above and replace it – Fig. 5.



- Gently install the new temperature sensor (A) in the relative seat on the CCP, taking care not to damage the sensor itself – Fig. 6.
- Apply **Loctite 243** to the thread of the indicated screw – Fig. 6.
- Tighten the indicated screw to a torque of 2 Nm – Fig. 6.
- Connect the connector (4) – Fig. 6.



- While supporting the CCP (3), undo the screws and nuts indicated then remove the CCP from the plate AV 8837 – Fig. 7.

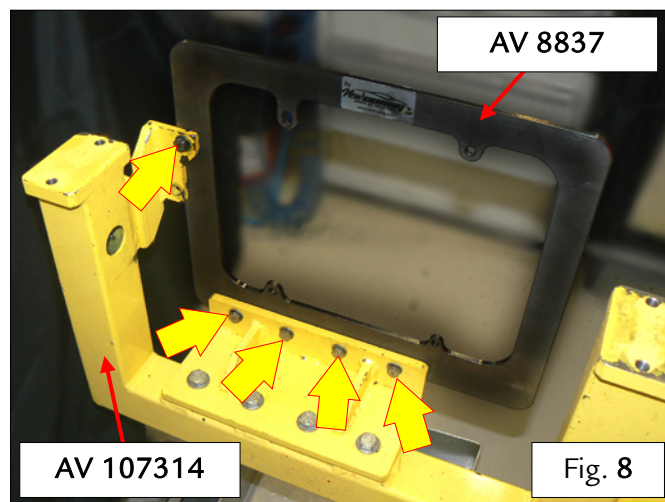




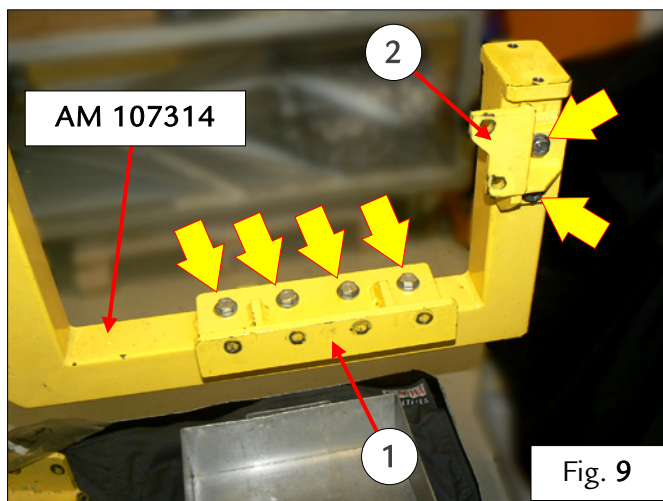
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Refit the CCP onto the gearbox (as indicated in the most recent Technical Information on the topic for the respective model).

- Remove the CCP carrier plate **AV 8837** from tool **AM 107314**, undoing the respective screws and nuts indicated – Fig. 8.



- Remove the lower additional plate (1) and the right hand lateral additional plate (2) from tool **AM 107314**, undoing the indicated fastener screws – Fig. 9.



Thank you for your co-operation.



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With reference to Technical Information 2389, the DTCs relative to the CCP temperature sensor are indicated as follows

DTC read on NCR	Description of DTC	Fault	Component involved
P0938	Radiator outlet / gearbox inlet oil temperature sensor, no signal	Electrical fault in radiator outlet / gearbox inlet oil temperature sensor.	CCP / Temperature sensor
P0939	Radiator outlet / gearbox inlet oil temperature sensor, too low	Electrical fault in radiator outlet / gearbox inlet oil temperature sensor.	CCP / Temperature sensor
P0940	Radiator outlet / gearbox inlet oil temperature sensor, too high	Electrical fault in radiator outlet / gearbox inlet oil temperature sensor.	CCP / Temperature sensor