

Ferrari North America

Technical Information

Date:	March 18, 2013
Bulletin #:	2089
Campaign #:	399
Supersedes:	
Section:	3

Model Type: 458 Challenge (F142CHP)
Model Year: All Applicable
Subject: Replacing the DCT Gearbox Differential Flanges

Due a possible nonconformity in the production process of our supplier, it is necessary to replace the DCT gearbox differential flanges in vehicles **from Assembly No. 111105 to Assembly No. 112041**.

The list of vehicles involved in the update is **viewable on the ModisCS site, using the "Recall and Service Campaign Management" function, entering the campaign number indicated below.**

The parts to be installed are:

- SL 1.4 GEARBOX OVERHAUL KIT **Part No. 70002806** Q.ty 1

Procedure

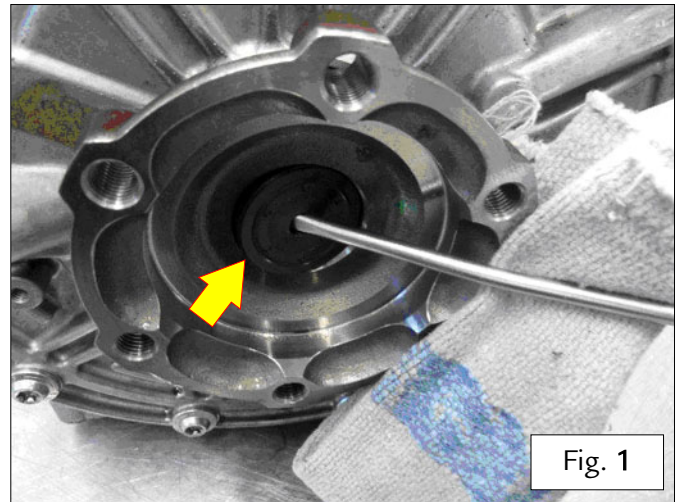
Note: THE FOLLOWING PHOTOGRAPHS HAVE BEEN TAKEN WITH THE GEARBOX ON THE WORKBENCH SOLELY TO ILLUSTRATE THE OPERATIONS MORE CLEARLY. THIS PROCEDURE MUST BE PERFORMED WITH THE GEARBOX IN THE VEHICLE.

- Remove the complete rear suspension (as described in paragraph **D4.01** step 3 of the Workshop Manual).

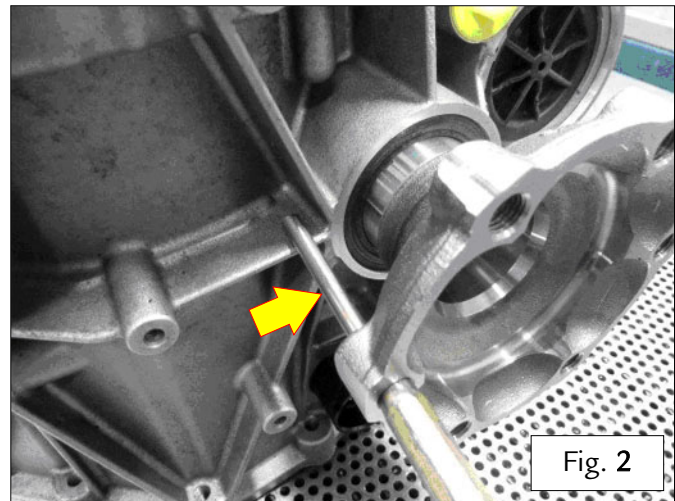


Ferrari North America

- Using a sharp implement, pierce the centre of the rubber cap indicated on the right hand differential flange, then pry it out of its seat – Fig. 1.



- Immobilise the differential by inserting a punch as shown through the left hand differential flange – Fig. 2.





Ferrari North America

- Using a 7 mm hexagonal socket wrench bit, undo the indicated screw on the right hand differential flange – Fig. 3.

Note: Do NOT use an air powered tool to undo the indicated screw.

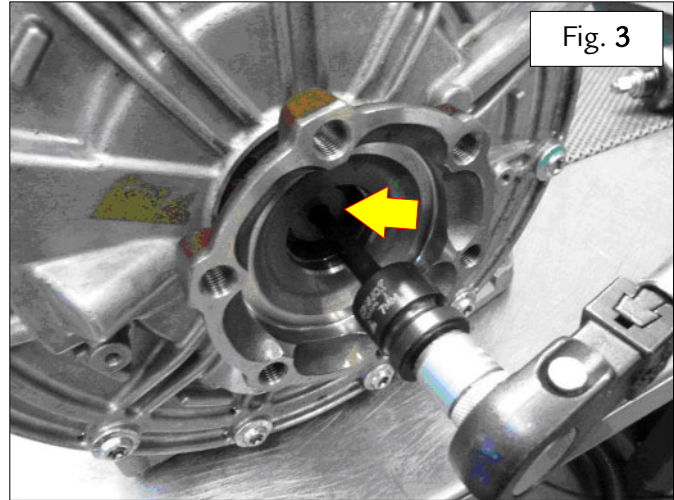


Fig. 3

- Remove the screw (1) from the right hand differential flange – Fig. 4.

Note: A small quantity of oil may escape; take all necessary precautions to limit and collect the spillage.

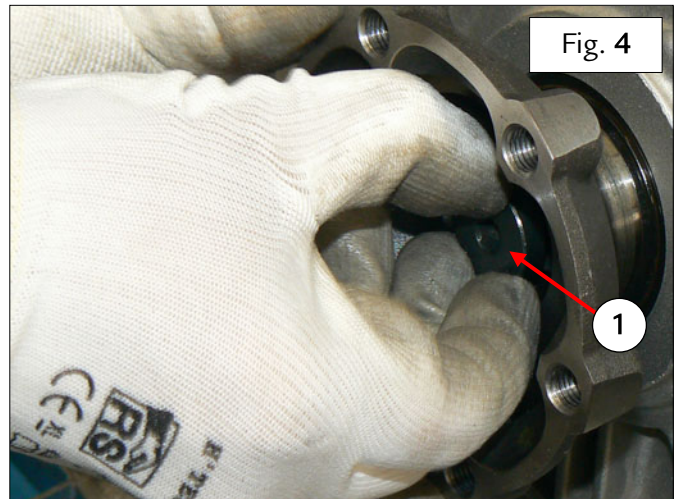
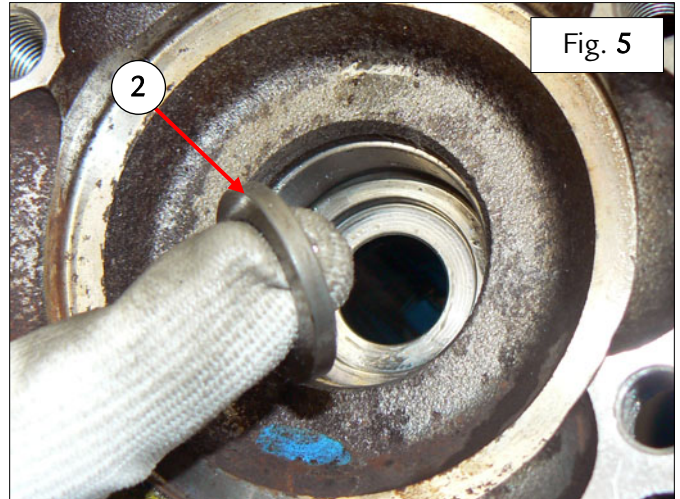


Fig. 4



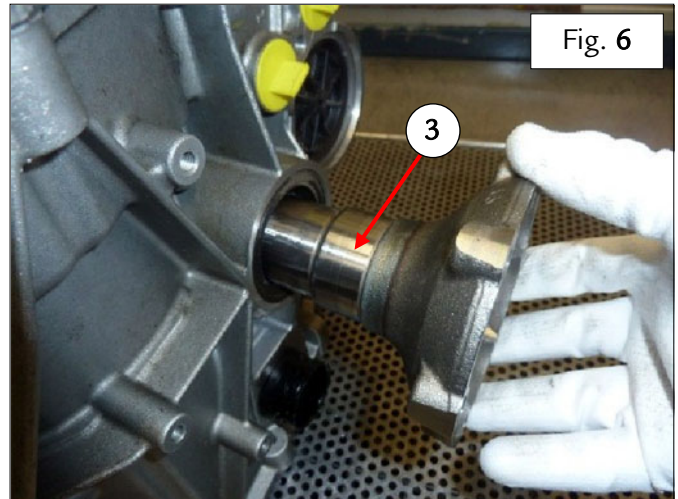
Ferrari North America

- Retrieve the washer (2) from the RH differential flange – Fig. 5.



- Remove the LH differential flange (3) and replace – Fig. 6.

Note: Take care not to damage the lip of the Corteco seal.



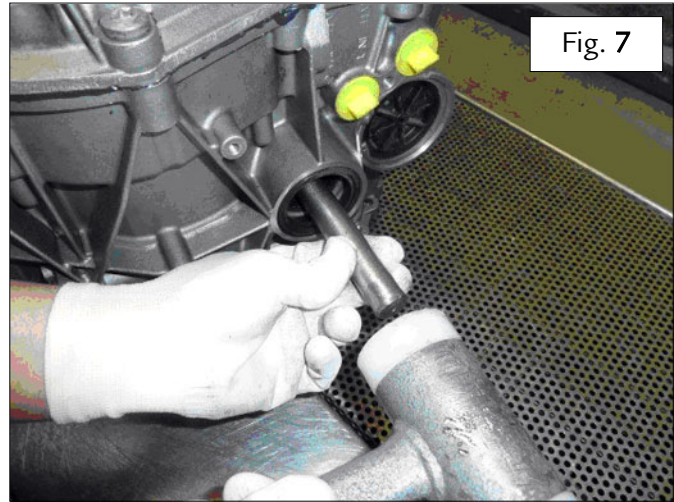


Ferrari North America

- From the left hand side of the gearbox and using a suitable punch and plastic mallet, push out and remove the right hand differential flange – Fig. 7.

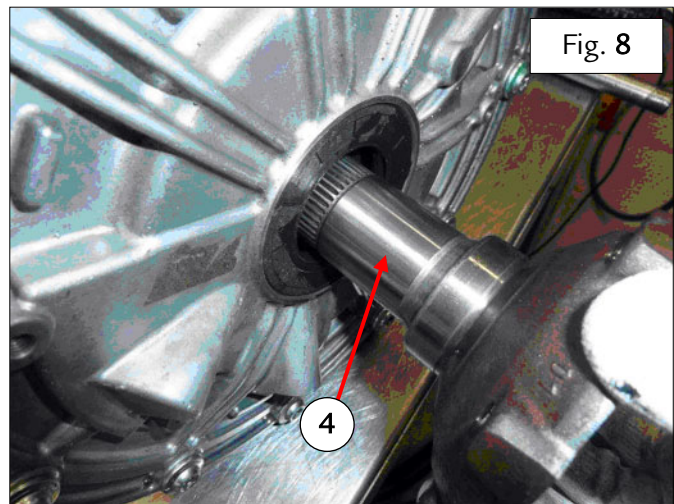
Note: Take care not to damage the lip of the Corteco seal.

Note: Tap gently with the mallet to prevent damage to the components.



- Remove the RH differential flange (4) and replace – Fig. 8.

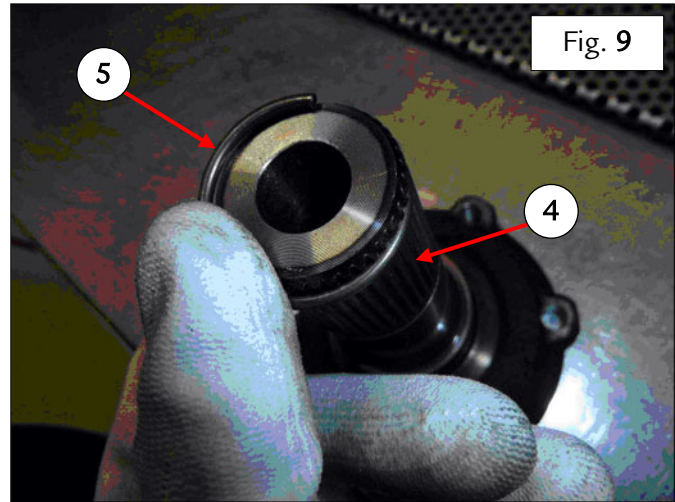
Note: take care not to damage the lip of the Corteco seal.





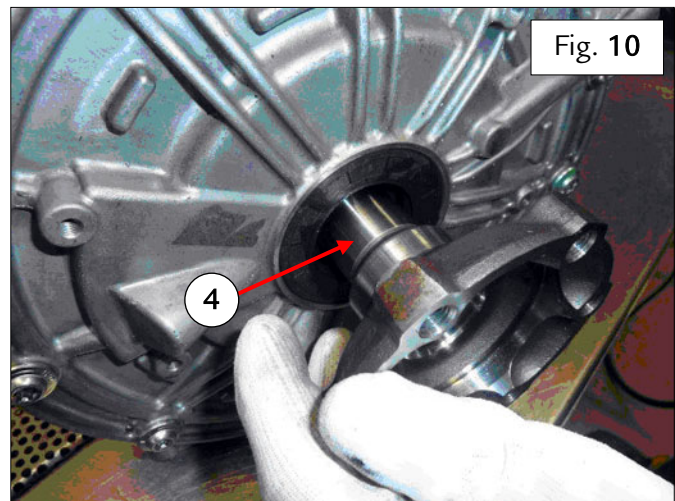
Ferrari North America

- If not already installed on the flange, fit the retainer ring (5) on the new RH differential flange (4) – Fig. 9.



- Fit the new RH differential flange (4) in the relative seat on the DCT gearbox – Fig. 10.

Note: take care not to damage the lip of the Corteco seal.





Ferrari North America

- Use a plastic mallet to push the RH differential flange (4) the remaining distance into the relative seat on the gearbox – Fig. 11.

Note: tap gently with the mallet to prevent damage to the components.

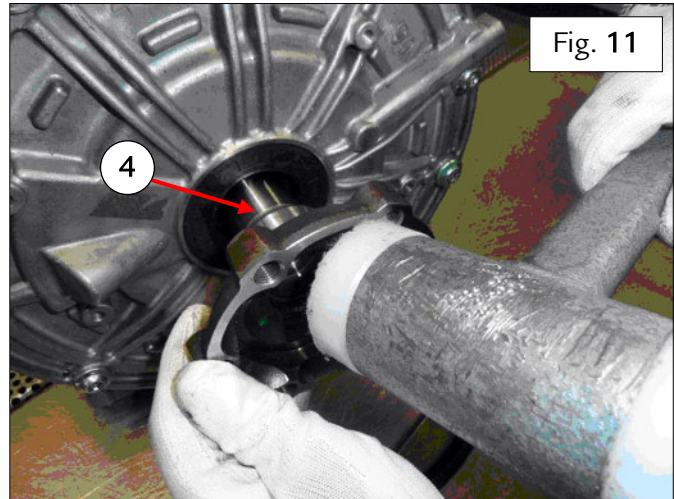


Fig. 11

- Apply **Loctite 270** to the indicated thread of the new LH differential flange (3) – Fig. 12.

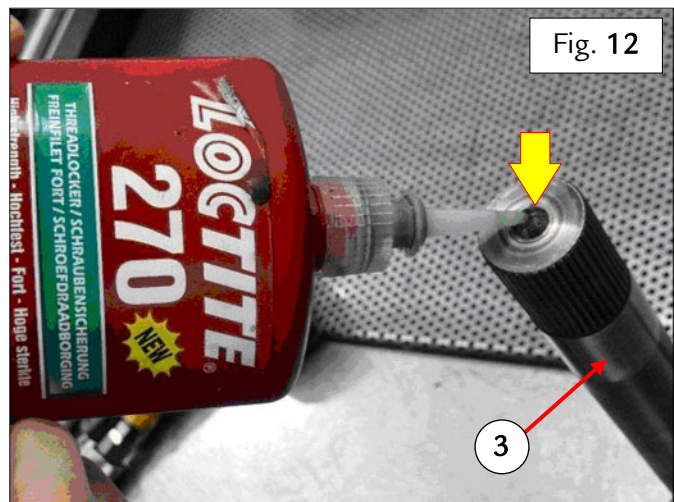


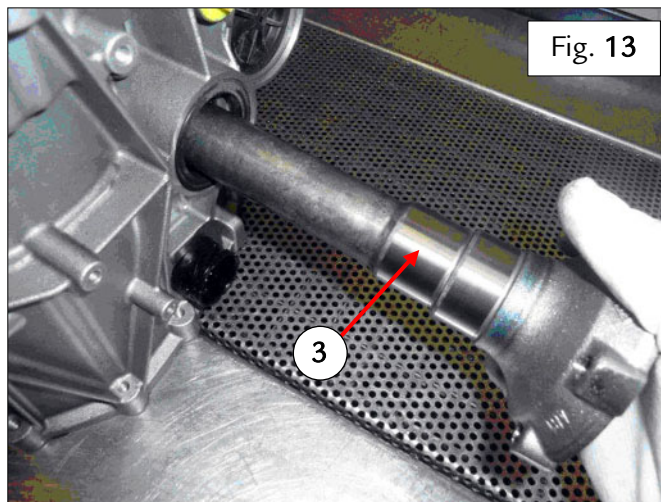
Fig. 12



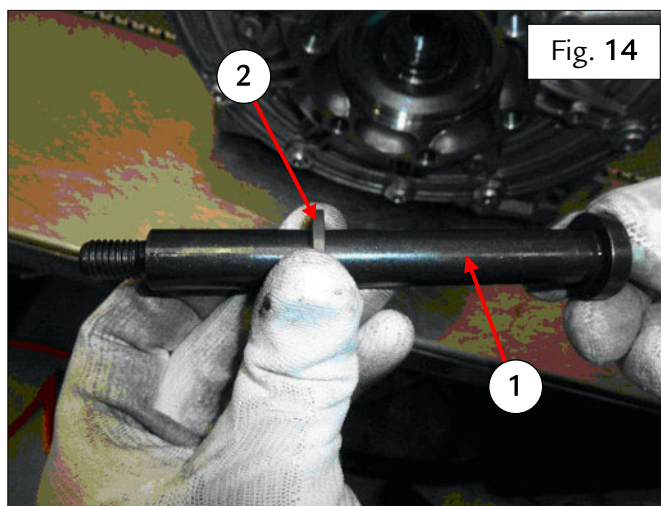
Ferrari North America

- Fit the new LH differential flange (3) in the relative seat on the DCT gearbox – Fig. 13.

Note: take care not to damage the lip of the Corteco seal.



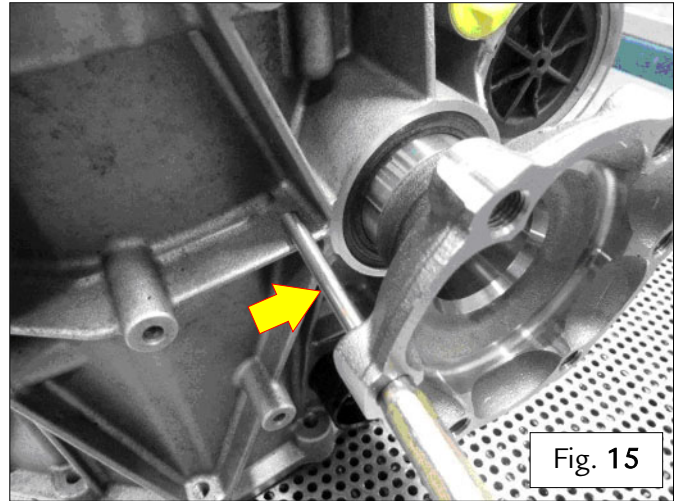
- Lubricate the contact surfaces of the new washer (2), then fit the washer on the new flange fastener screw (1) – Fig. 14.



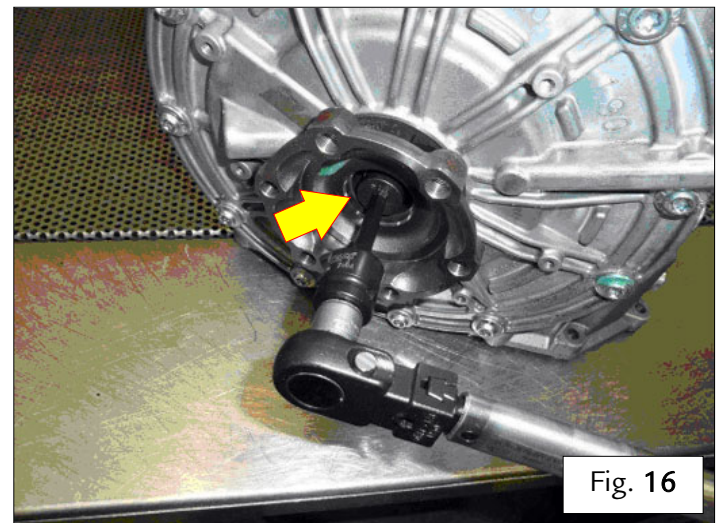


Ferrari North America

- Immobilise the differential by inserting a punch as shown through the left hand differential flange – Fig. 15.



- Using a calibrated and certified torque wrench tighten the new screw indicated to a torque of **40 Nm** – Fig. 16.

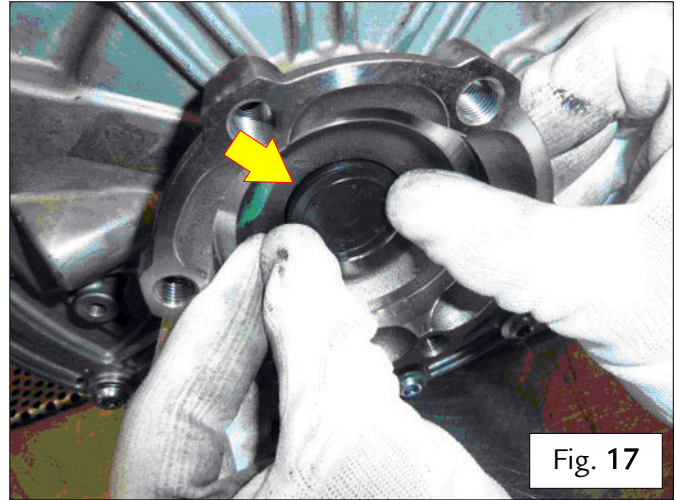




Ferrari North America

- Manually fit a new plug as indicated in the relative seat of the RH differential flange – Fig. 17.

Note: DO NOT USE A MALLET or HAMMER



- Refit the complete rear suspension (as described in paragraph D4.01 step 4 of the Workshop Manual).



Ferrari North America

Service rules

The parts required in order to carry out the update described herein must be ordered by you directly from our Spare Parts Department in the quantities needed.

- NOTE -

The replaced parts must be scrapped/disposed of appropriately by you.

Services under warranty

You may recover the costs for this work with the **Warranty System**, specifying:

› Campaign number	399
› Cost code	23
› Malfunction code.....	42.3.00.001
› Problem code	01
› Operation code	42.0.90.259.0
› Time allowance	2.50 Hours

Thank you for your co-operation.