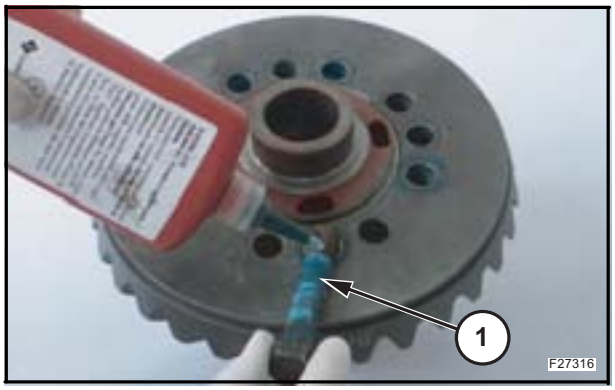
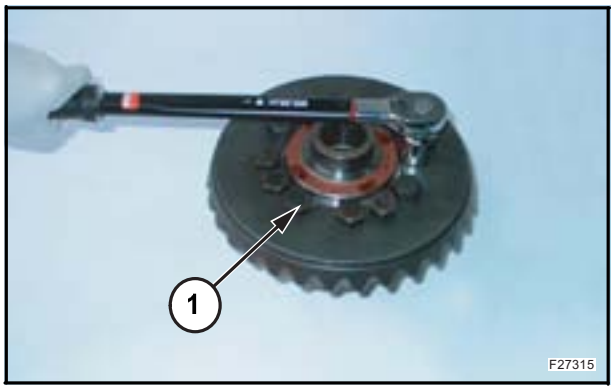
Apply Loctite 242 on the thread of the screws (1).

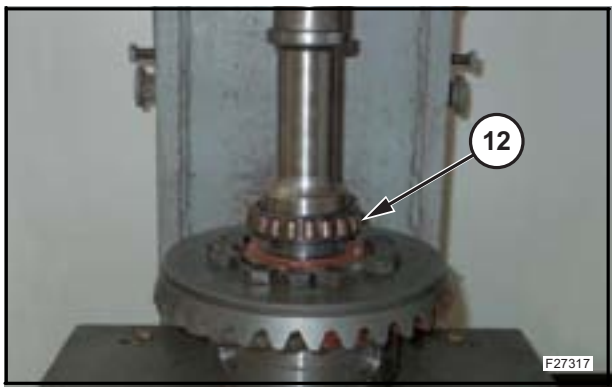


Tighten the screws (1) to the requested torque.

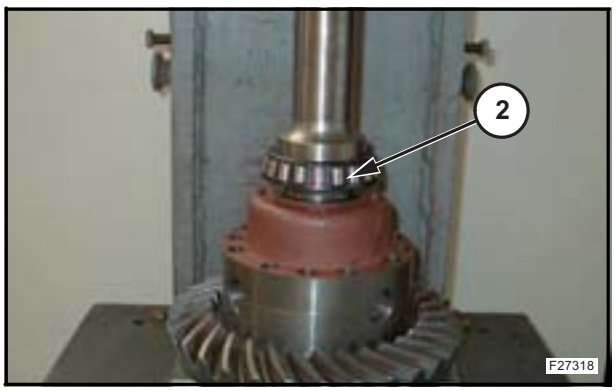
NOTE: fix differential housing in the vice.



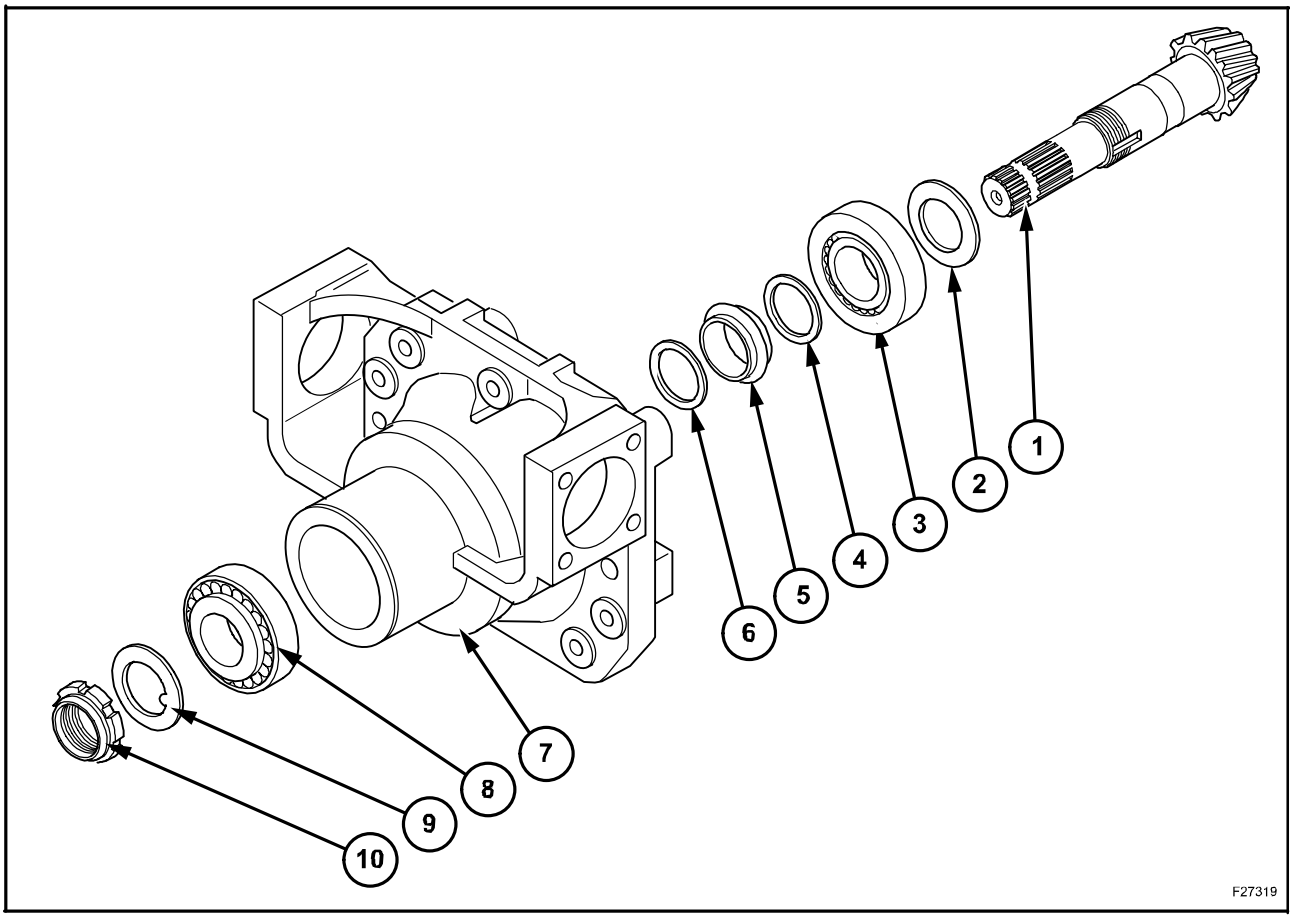
Press the bearing (12) or assemble after preheating.



Press the bearing (2).



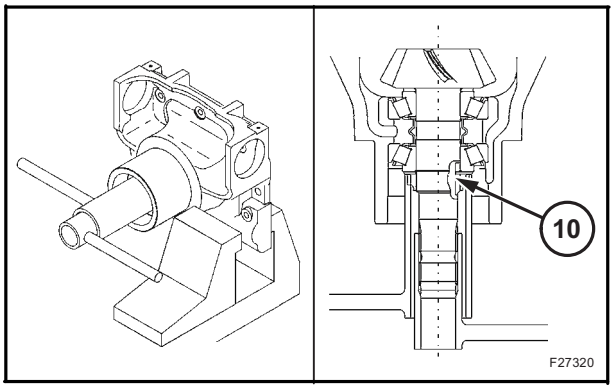
PINION GROUP



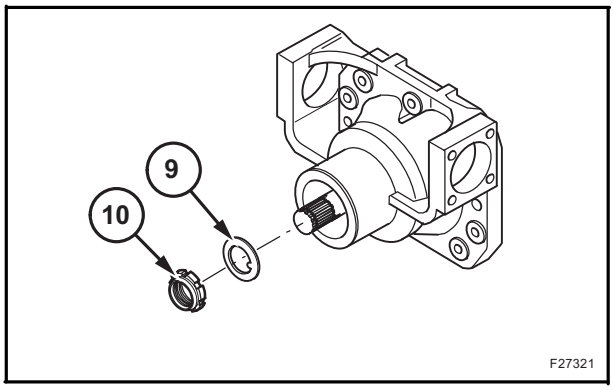
Disassembly

Position the differential carrier in a vise.
Unscrew the locknut (10) using special tool **380002218**.

NOTE: this operation will irretrievably damage the locknut (10).



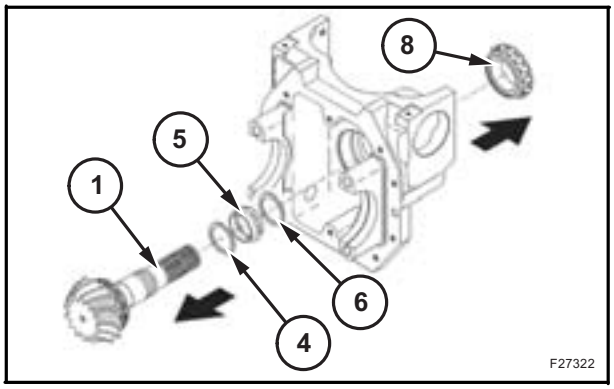
Remove the ring nut (10) and collect its retaining washer (9).



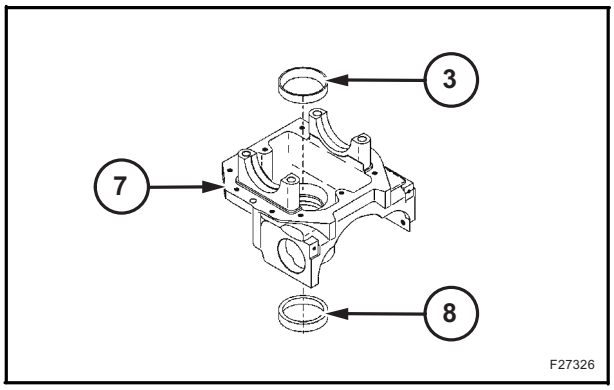
Tap the shaft with a soft hammer to remove the bevel pinion (1).

⚠ WARNING
Take care not to lower the bevel pinion (1).

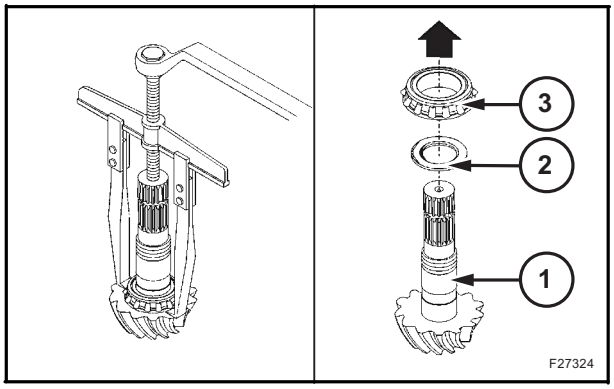
Collect the washers (4) and (6), the collapsible spacer (5) and the bearing (8).



Place the differential carrier (7) on a flat surface and remove the bearing cups (3) and (8) using a drift and a hammer.

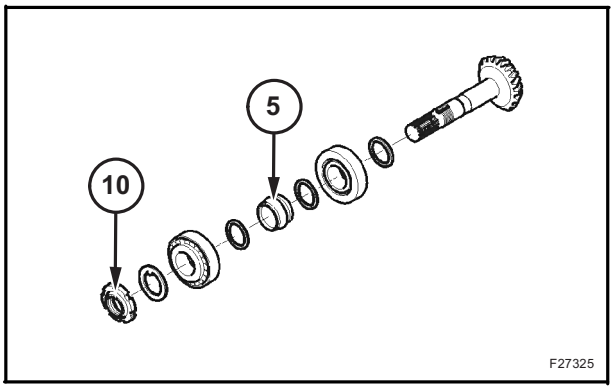


To remove the bearing (3) of the bevel pinion (1), use a standard extractor.
Collect the bearing (3) and the underlying shim (2).



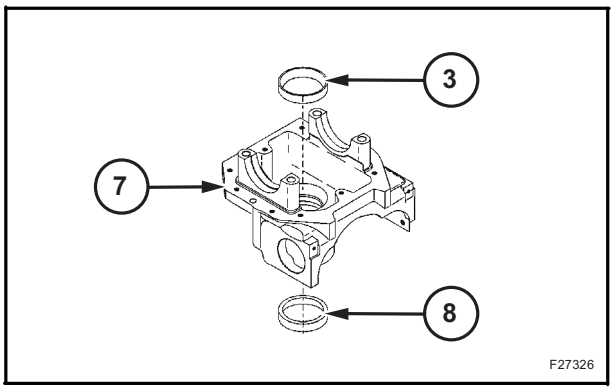
Check all pinion components for wear.

⚠ WARNING
The ring nut (10) and the collapsible spacer (5) must be replaced when reassembling the unit.

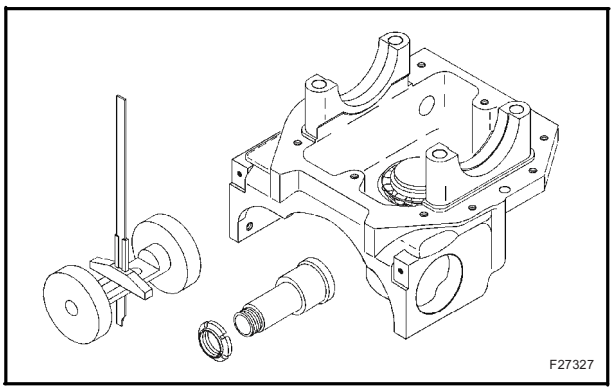


Assembly

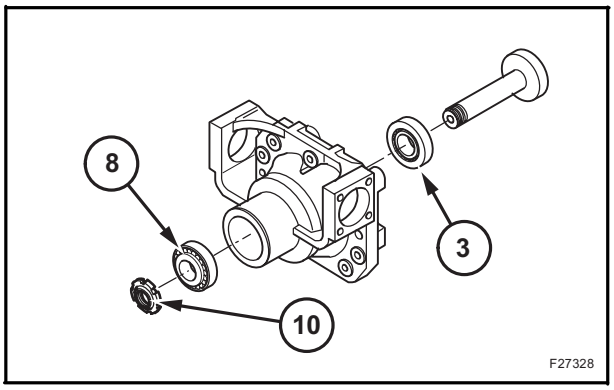
Place the differential support (7) on a workbench.
Fit the bearing cups (3) and (8) using the special drifts and a hammer.



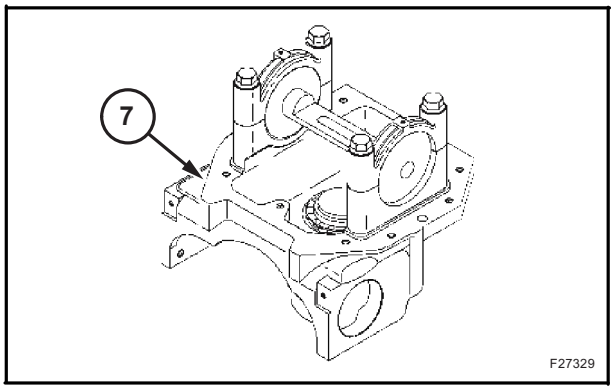
Prepare the kit consisting of the special tools called “false pinion” **380002219** and “false differential box” **380000407** + **380000440** and a depth gauge.



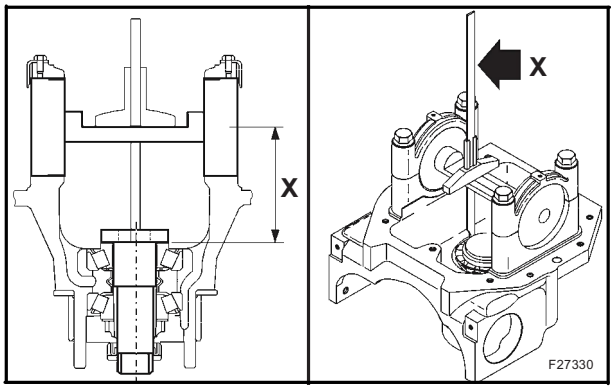
Insert the bearing (3) and (8) in their housings.
Assemble the “false pinion” **380002219** and its ring nut (10).
Tighten without exceeding the ring nut, till the back-lash is eliminated.



Install “false differential box” special tools **380000407** + **380000440** to the differential group supports (7) and lock it with the half collar bolts.

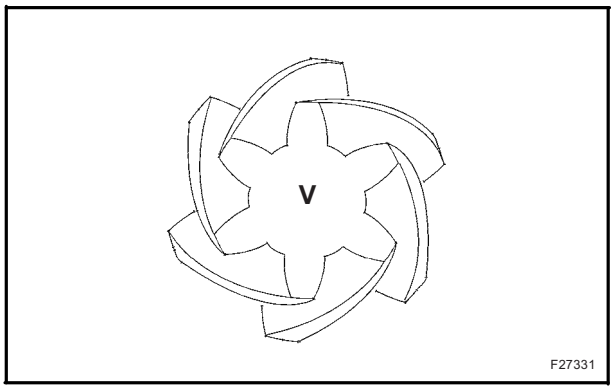


Assembly diagram of the “false differential box” tools **380000407** + **380000440** on the bearing differential support seats.
Use a depth gauge to measure distance “X” (distance between the axis of the differential bearings and the point at which the pinion head is supported, or base of the bearing).



In order to determine the necessary thickness value (S) between the pinion and the bearing, subtract the value (V), stamped on the pinion head (V = requested conical distance), from the measured value (X).

S = X-V mm



Select the shim (2) of thickness value (S) among the range of available shims.