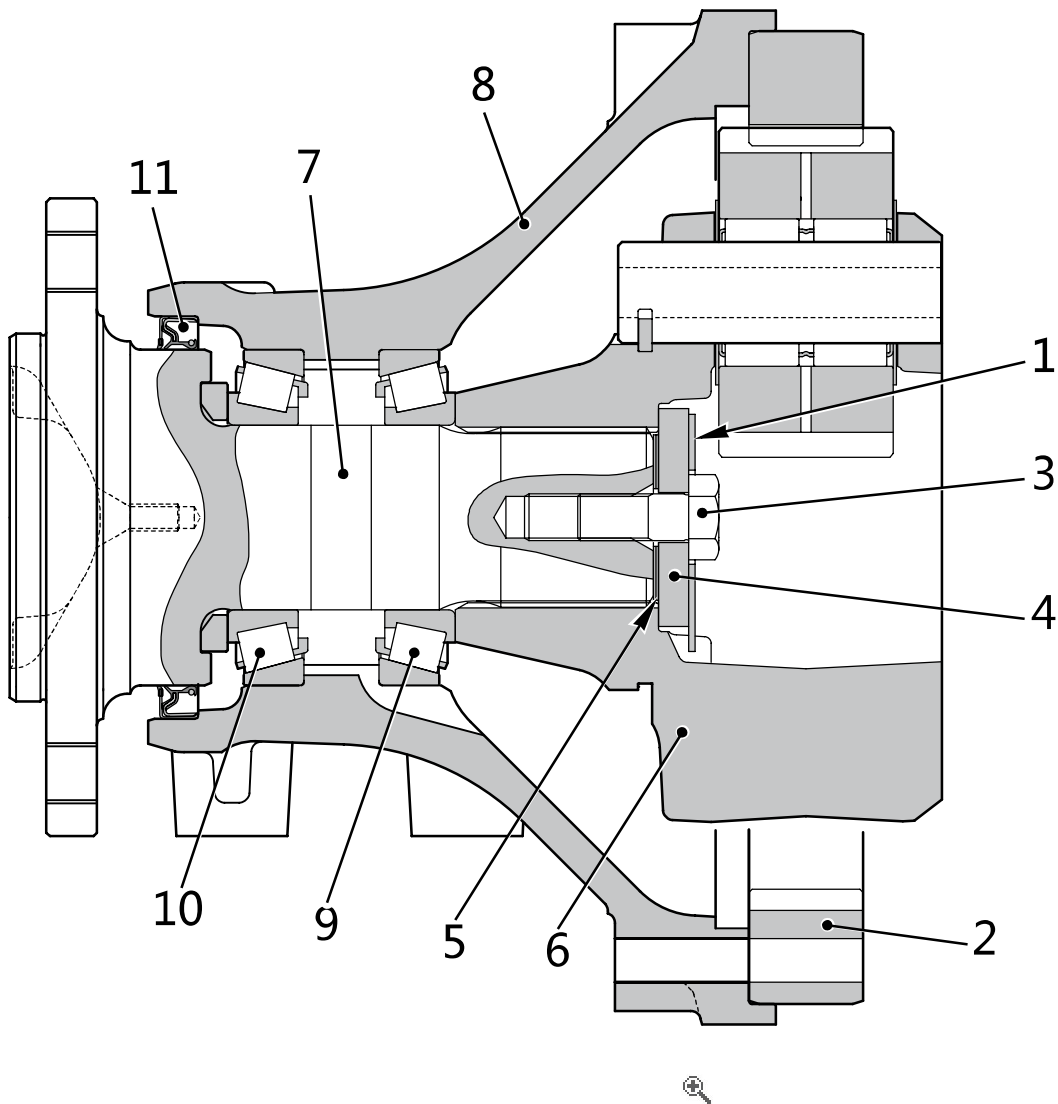




RH/LH rear axle - Version with narrow axle

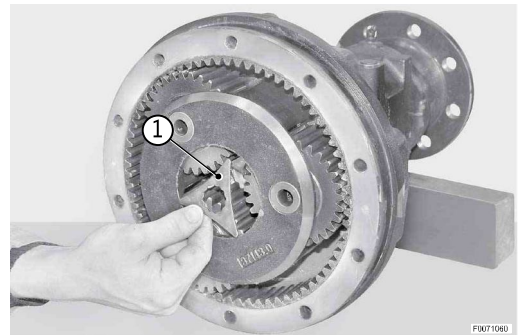


D0028660

Fig. RH/LH rear axle

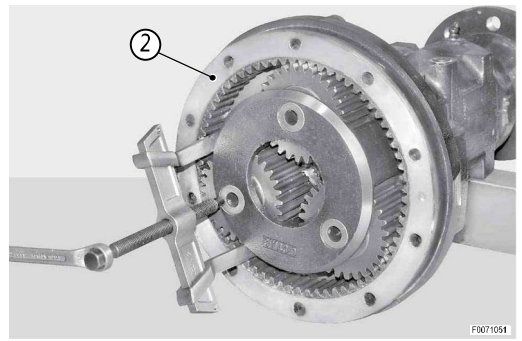
Disassembly

Remove anti-rotation plate (1) from the axle.



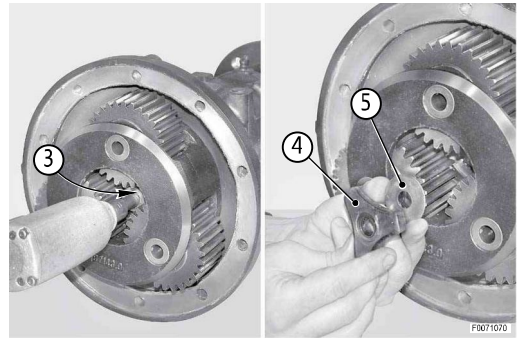
1.

Using a puller, remove ring gear (2).



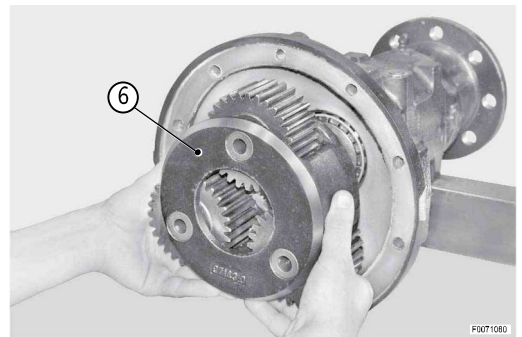
2.

Remove screw (3) and remove spacer (4) and shims (5).



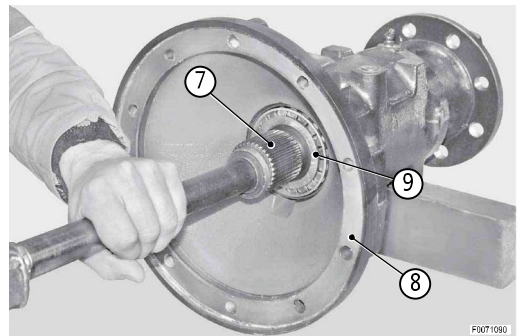
3.

Remove planet carrier assembly (6).



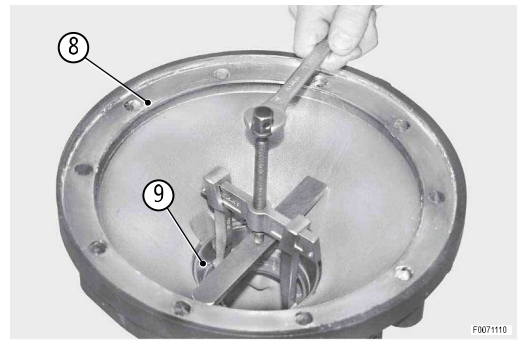
4.

Using a copper punch and a mallet, drive halfshaft (7) out of axle housing (8) and remove the inner race of bearing (9).



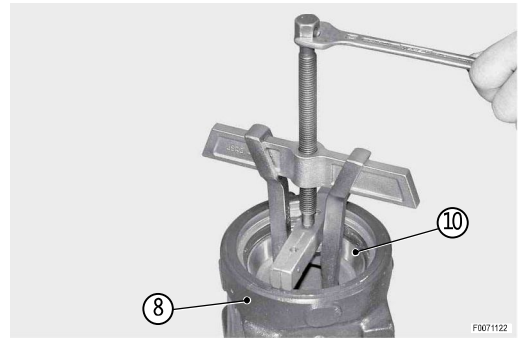
5.

Withdraw the outer race of bearing (9) from axle housing (8).



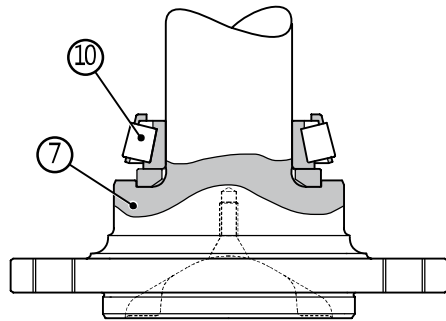
6.

Withdraw the outer race of bearing (10) from axle housing (8).



7.

Remove bearing inner ring (10) from axle halfshaft (7).



D0028700

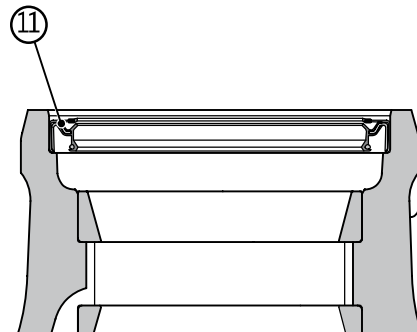


8.

Only if necessary

Remove the back-up ring of oil seal (11) from the axle housing.

- o Renew the oil seal on reassembly.



D0028690



9.

Assembly

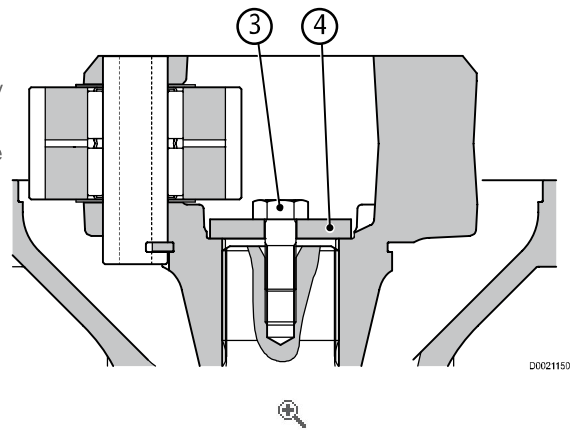
To assemble, follow the disassembly steps in reverse order and use caution in relation to the following procedures:

Procedure 2

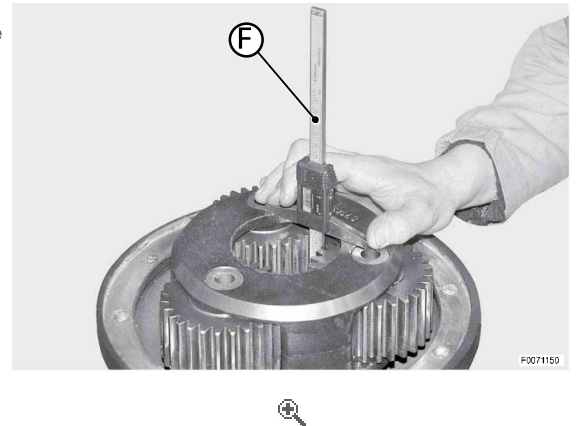
- Do not fit the ring gear at this stage.

Procedure 3

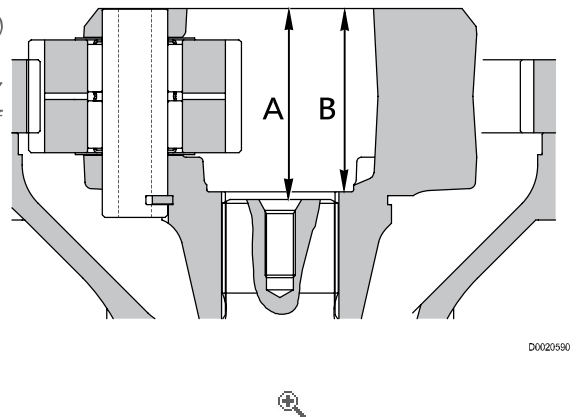
- Position axle housing (8) vertically.
Temporarily install spacer (4) and screw (3) and tighten gradually to slightly preload bearings (9) and (11).
 - While tightening the screw, rotate the axle housing while holding the halfshaft to as to help set the bearings.



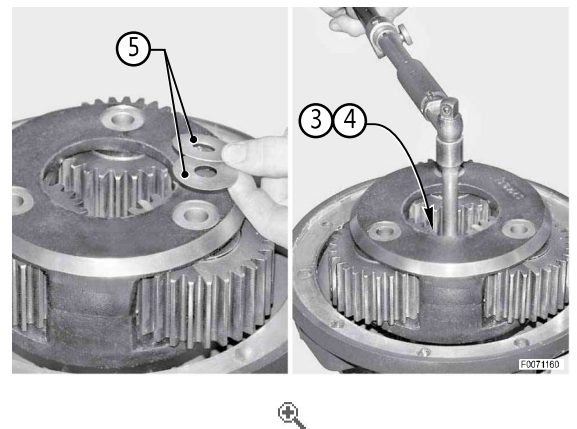
- Remove screw (3) and spacer (4) and, using a depth gauge "F" measure dimensions "A" and "B".



- Calculate the thickness "S" of shim pack (5) to be installed under spacer (4) using the following formula: $S = A - B$ (round down the value obtained)
 - Example calculation: dimension "A": 86.10 mm dimension "B": 84.47 mm $S = 86.10 - 84.47 = 1.63$ mm thus the final thickness "S" of shims (5) will be 1.60 mm.

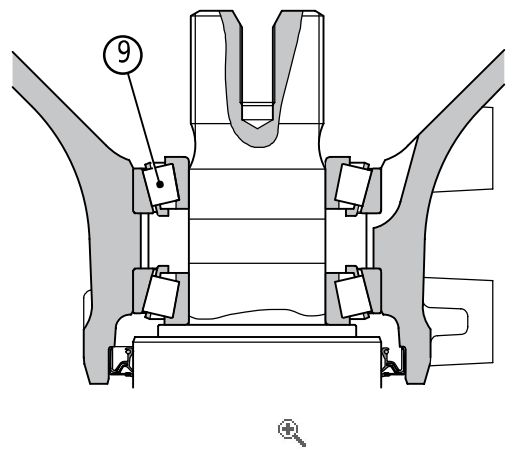


- Fit shim pack (5), spacer (4) and secure in positions by tightening screw (3).
 - Screw: 177 ± 9 Nm (130.5 ± 6.6 lb.ft.)
 - Screw: Loctite 270



Procedure 5

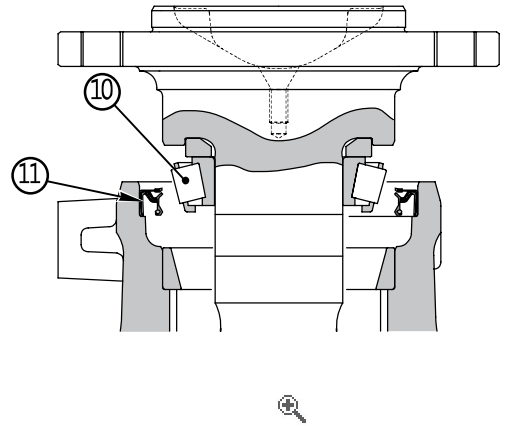
- Lubricate bearing (9).



D0028670

Procedure 8

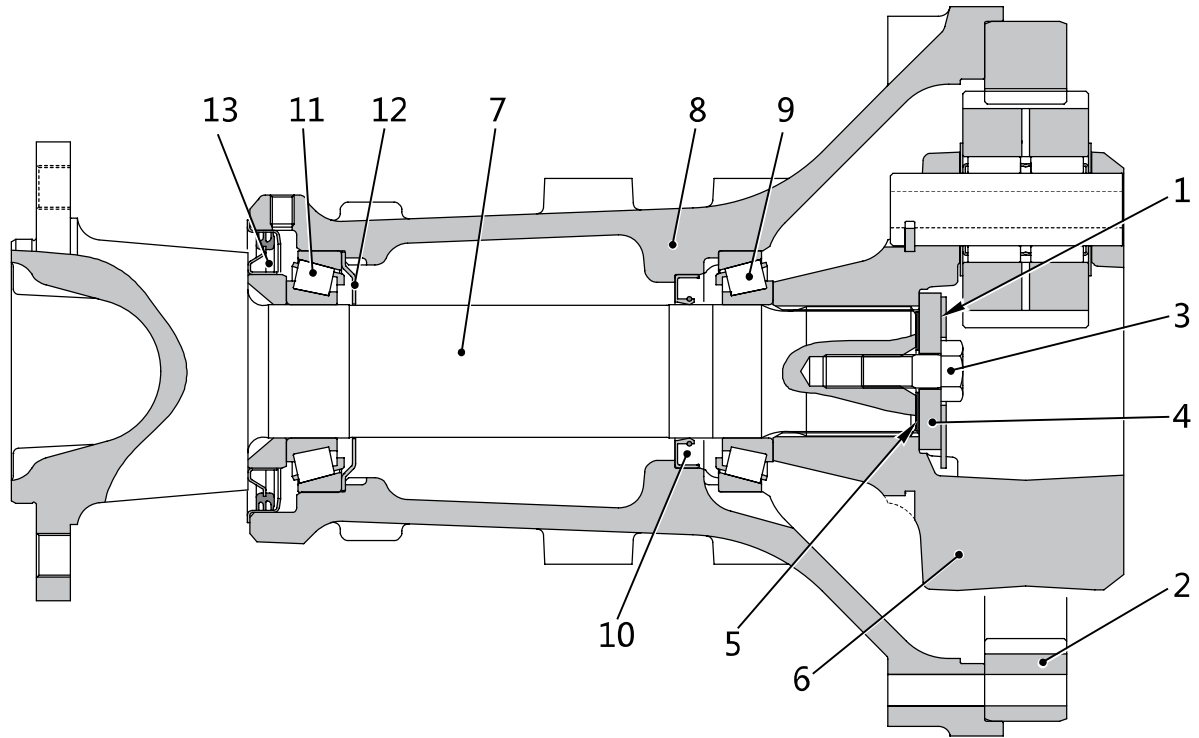
- Take care to install oil seal (10) the right way round.
Lubricate the lip of oil seal (11) and bearing (10).



D0028680



RH/LH rear axle - Version with normal axle



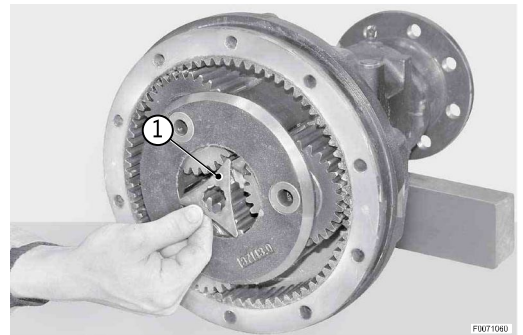
D0021140



Fig. RH/LH rear axle

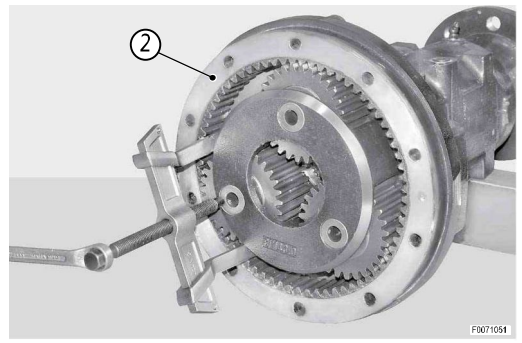
Disassembly

Remove anti-rotation plate (1) from the axle.



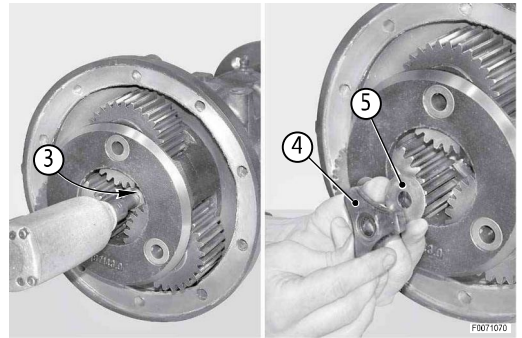
1.

Using a puller, remove ring gear (2).



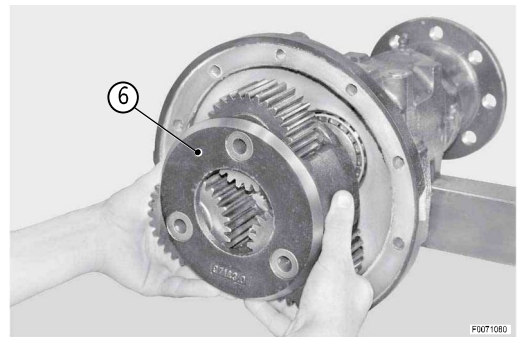
2.

Remove screw (3) and remove spacer (4) and shims (5).



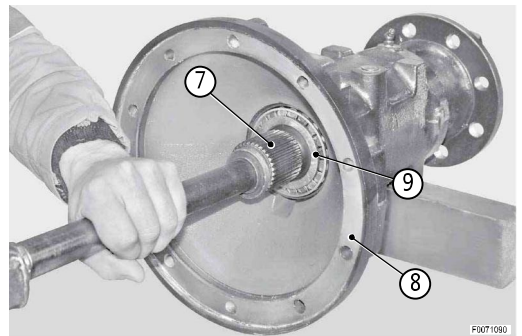
3.

Remove planet carrier assembly (6).



4.

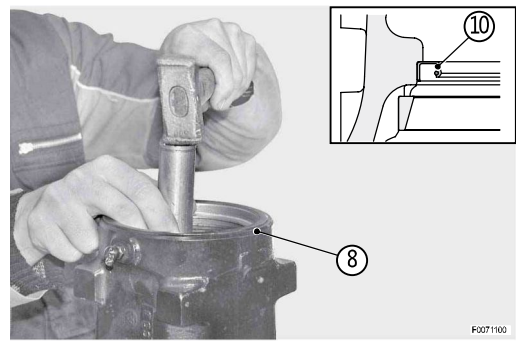
Using a copper punch and a mallet, drive halfshaft (7) out of axle housing (8) and remove the inner race of bearing (9).



5.

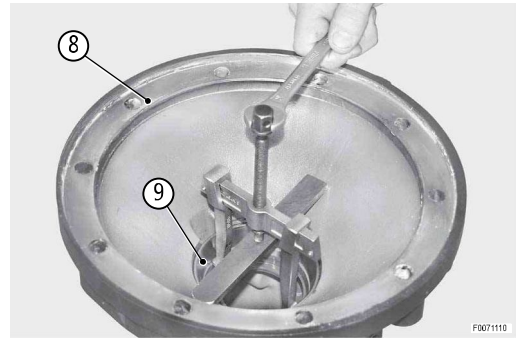
Withdraw oil seal (10) from axle housing (8).

- o Note which way round oil seal (10) is installed.



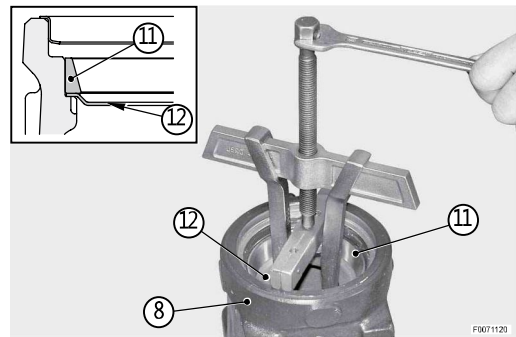
6.

Withdraw the outer race of bearing (9) from axle housing (8).



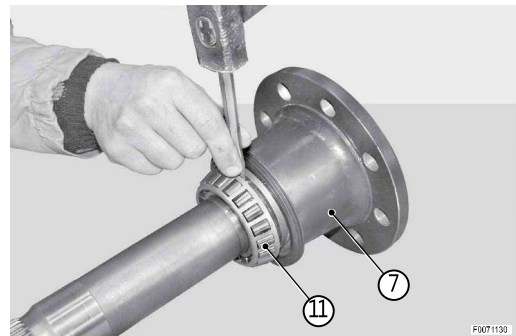
7.

Withdraw bearing outer race (11) and disc (12) from axle housing (8).



8.

Remove bearing inner race (11) from axle halfshaft (7).

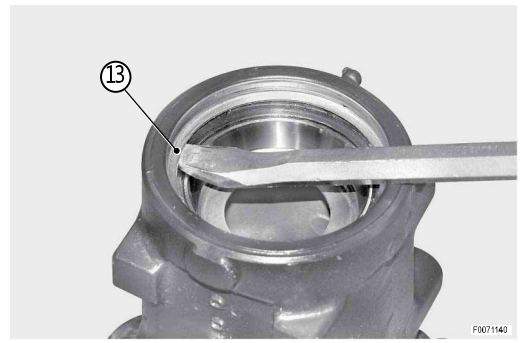


9.

- o Only if necessary

Remove the back-up ring of oil seal (13) from the axle housing.

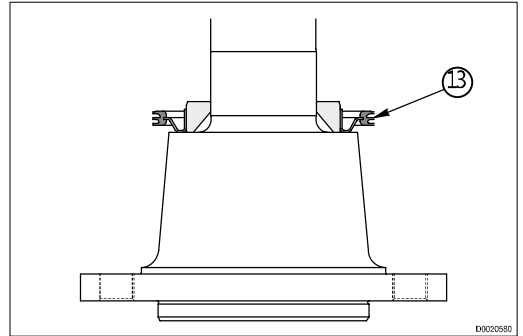
- o
 - Renew the oil seal on reassembly.



10.

Remove dust seal (13) from the axle shaft.

- Renew the oil seal on reassembly.
Note which way round oil seal (13) is installed.



11.

Assembly

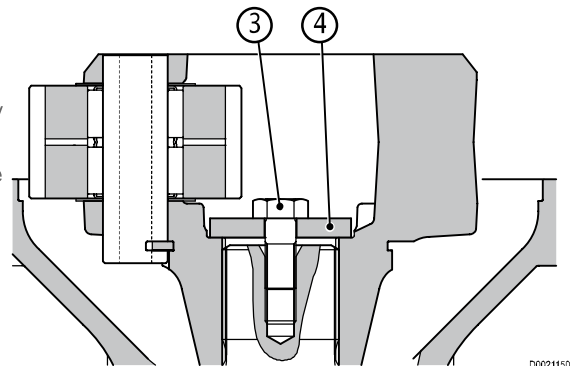
To assemble, follow the disassembly steps in reverse order and use caution in relation to the following procedures:

Procedure 2

- Do not fit the ring gear at this stage.

Procedure 3

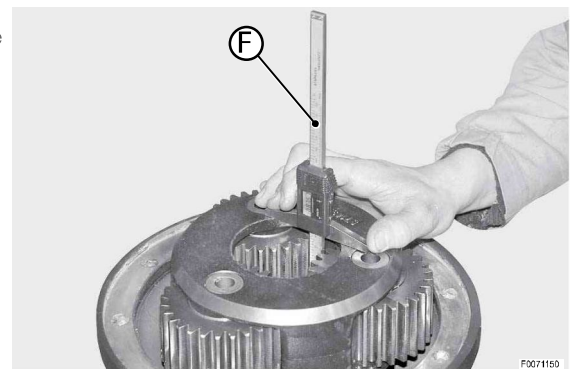
- Position axle housing (8) vertically.
Temporarily install spacer (4) and screw (3) and tighten gradually to slightly preload bearings (9) and (11).
 - While tightening the screw, rotate the axle housing while holding the halfshaft firm to as to help set the bearings.



D0021150

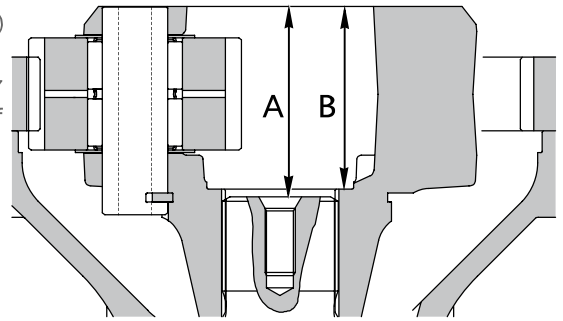


- Remove screw (3) and spacer (4) and, using a depth gauge "F" measure dimensions "A" and "B".



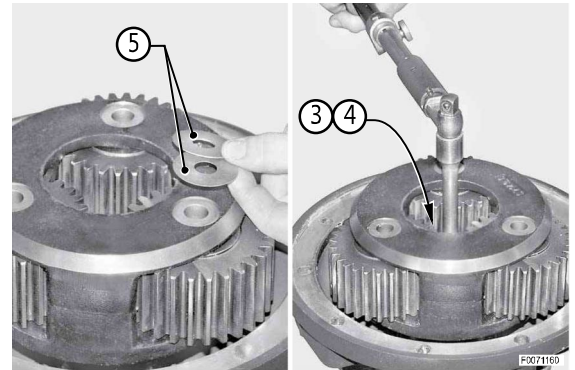
F0071150

- Calculate the thickness "S" of shim pack (5) to be installed under spacer (4) using the following formula: $S = A - B$ (round down the value obtained)
 - Example calculation: dimension "A": 86.10 mm dimension "B": 84.47 mm $S = 86.10 - 84.47 = 1.63$ mm thus the final thickness "S" of shims (5) will be 1.60 mm.



D0020590

- Fit shim pack (5), spacer (4) and secure in positions by tightening screw (3).
 - Screw: 177 ± 9 Nm (130.5 ± 6.6 lb.ft.)
 - Screw: Loctite 270



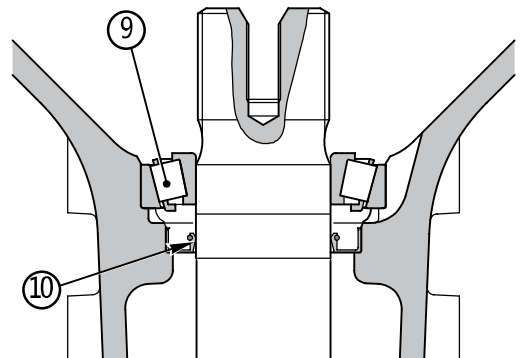
D0021159

Procedure 5

- Lubricate bearing (9) and the lip of oil seal (10).

Procedure 6

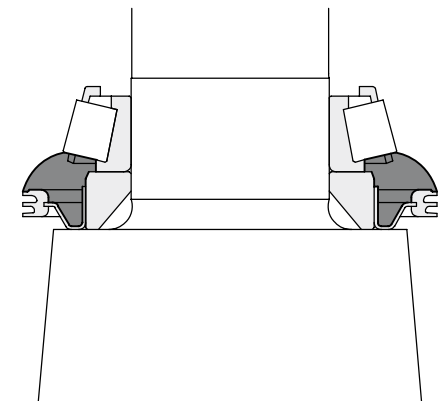
- Take care to install oil seal (10) the right way round.



D0021160

Procedure 9

- Fill the area indicated in the figure with grease.



D0021170

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