

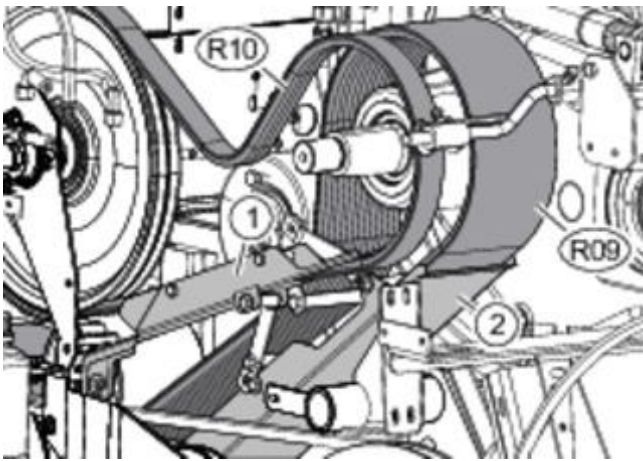
LEXION 780-620

Repair manual

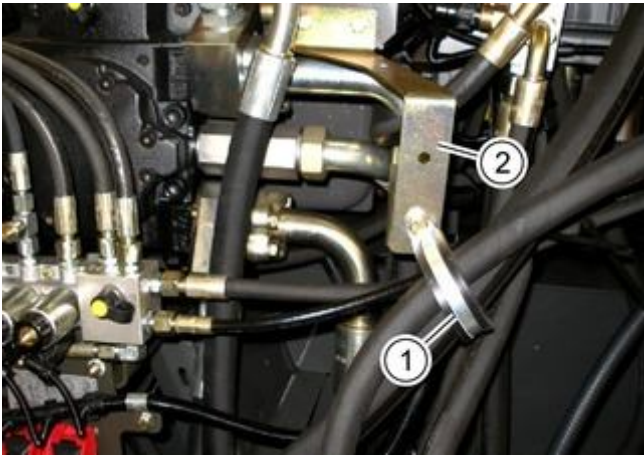
Validity of manual

This manual applies to the following machine / front attachment:

Designation	Type	Serial number	
		From	To
LEXION 760	C69	C69 00011	–
LEXION 750	C68	C68 00011	–
LEXION 740	C68	C68 00011	–
LEXION 730	C68	C68 00011	–
LEXION 670	C67	C67 00011	–
LEXION 780	C66	C66 00011	–
LEXION 770	C66	C66 00011	–
LEXION 760	C65	C65 00011	–
LEXION 750	C65	C65 00011	–
LEXION 670	C64	C64 00011	–
LEXION 660	C64	C64 00011	–
LEXION 650	C64	C64 00011	–
LEXION 630	C63	C63 00011	–
LEXION 620	C63	C63 00011	–

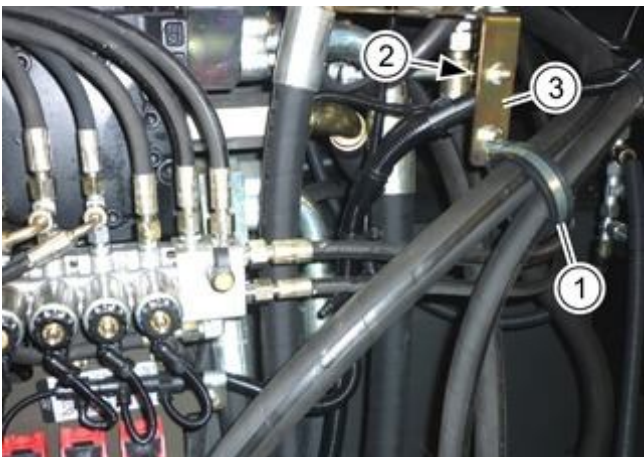


- ▶ Remove belt guides (1) and (2).
- ▶ Tie away belts (R09) and (R10) to the side.



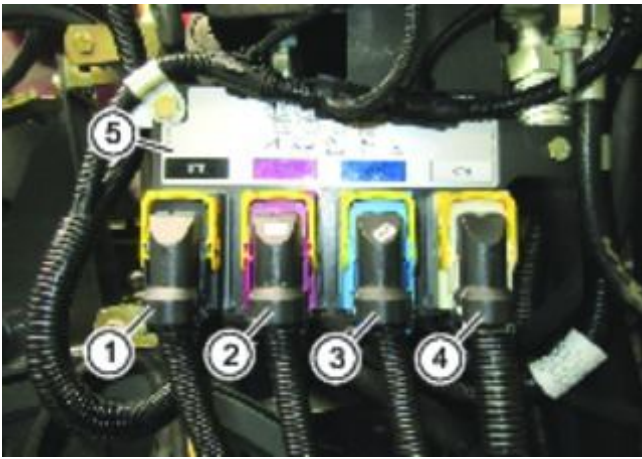
Version with Caterpillar engine:

- ▶ Unscrew clamp (1).
- ▶ Remove bracket (2).



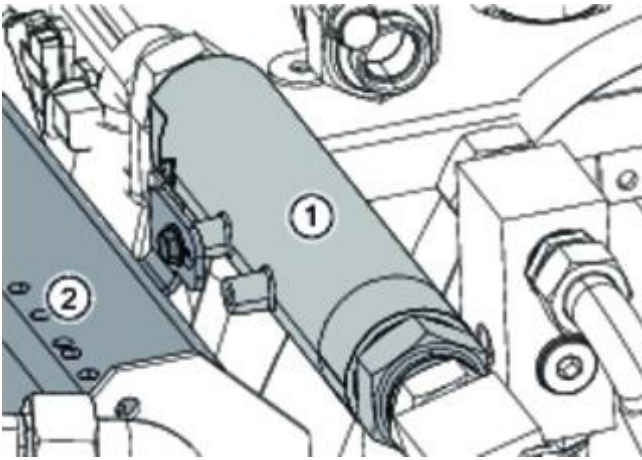
Mercedes-Benz engine variant:

- ▶ Unscrew clamps (1) and (2).
- ▶ Remove bracket (3).



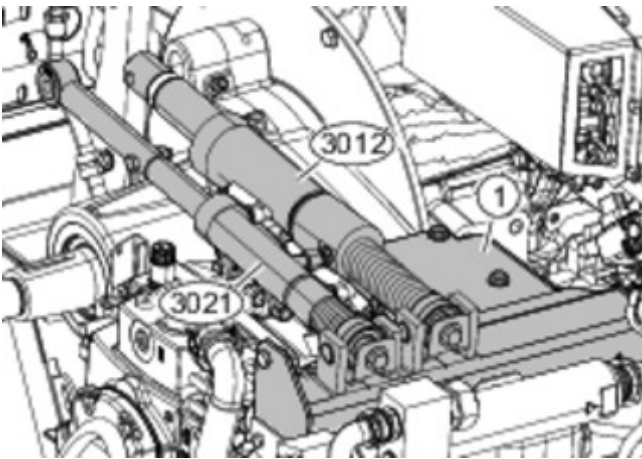
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- ▶ Mark, unlock and disconnect connectors (1-4).
- ▶ Unscrew pin contact strip (5) from machine frame and put it aside.



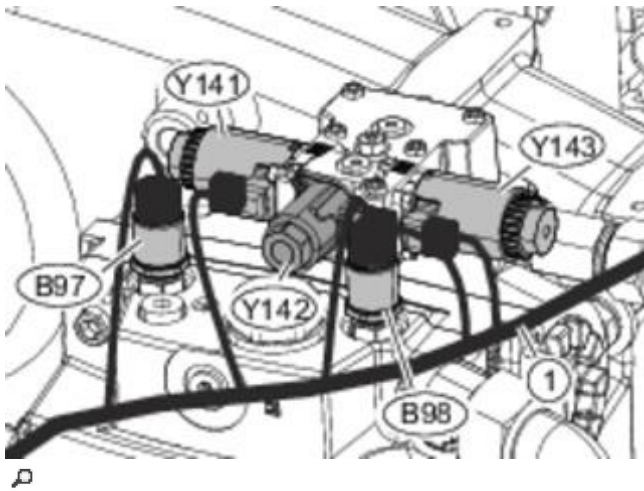
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- ▶ Unscrew filter (1) from bracket (2).



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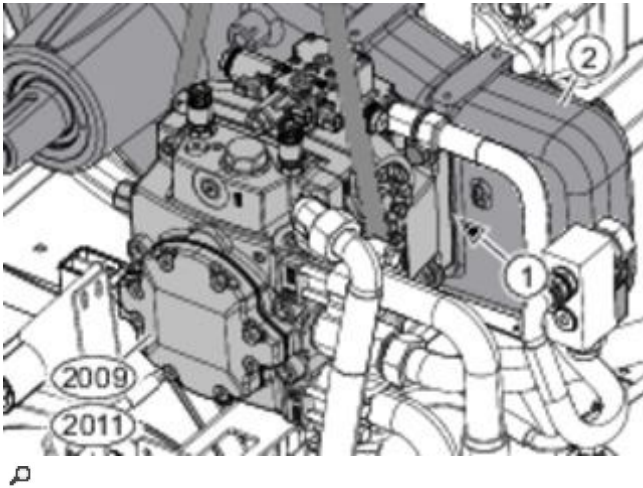
- ▶ Remove bracket (1) with hydraulic cylinders (3012) and (3021).



- ▶ Unlock and disconnect connectors of valves (Y141), (Y142) and (Y143).
- ▶ Put cable (1) aside.

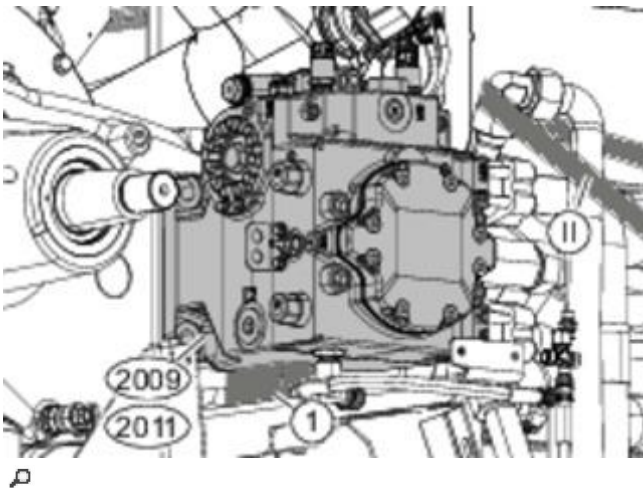
On version with fully electro-hydraulic ground drive:

- ▶ Unlock and disconnect connectors of sensors (B097) and (B098).



Please note: Do not slacken off hoses.

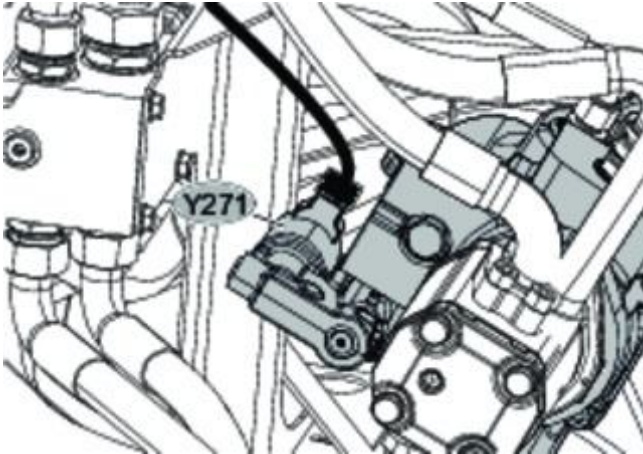
- ▶ Suspend pump (2009 / 2011) in suitable lifting equipment.
Weight of pump: 78 kg
- ▶ Unscrew and remove pump (2009 / 2011) from gearbox (2) at (1).
- ▶ Collect and properly dispose of any escaping transmission oil.



Use special tool (II) (lifting strap).

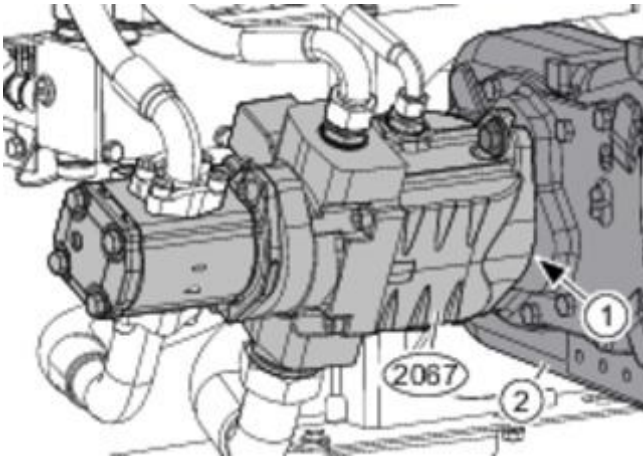
Transfer gearbox

- ▶ Support pump (2009 / 2011) with a wooden block at (1).
- ▶ Secure pump (2009 / 2011) with special tool (II).



p

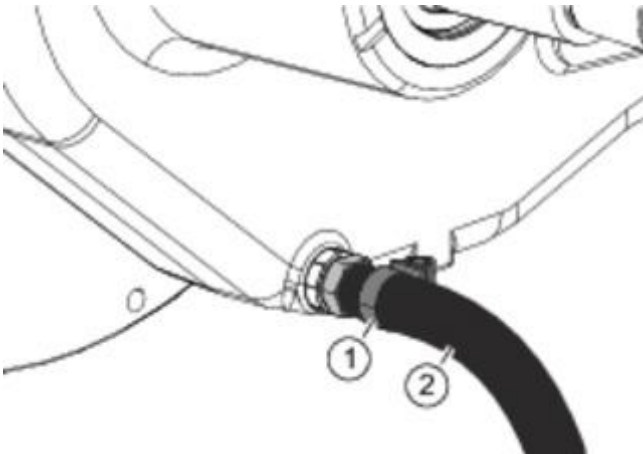
- ▶ Unlock and disconnect connector of solenoid valve (Y271).



p

Please note: Do not slacken off hoses.

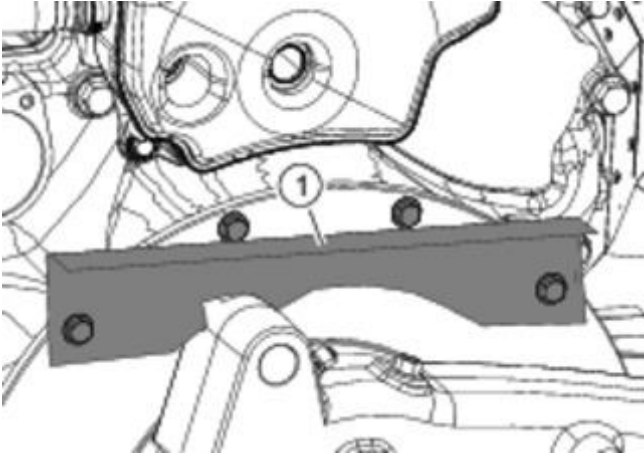
- ▶ Unscrew pump (2067) from gearbox (2) at (1) and tie it aside.
- ▶ Collect and properly dispose of any escaping transmission oil.



p

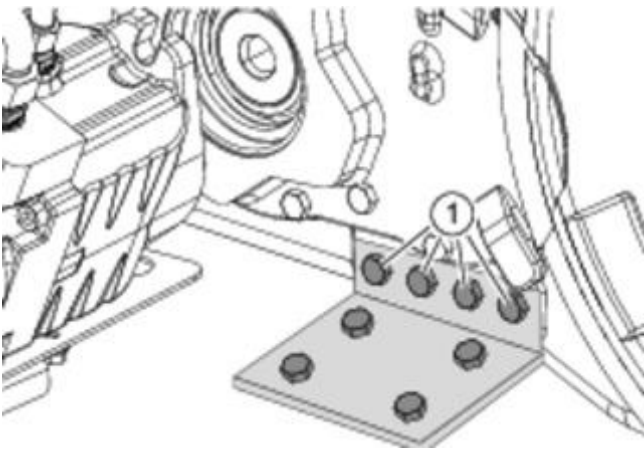
- ▶ Slacken off clamp (1).
- ▶ Pull off hose (2).
Collect and properly dispose of any escaping transmission oil.

- ▶ Seal openings tightly with plugs.



▢

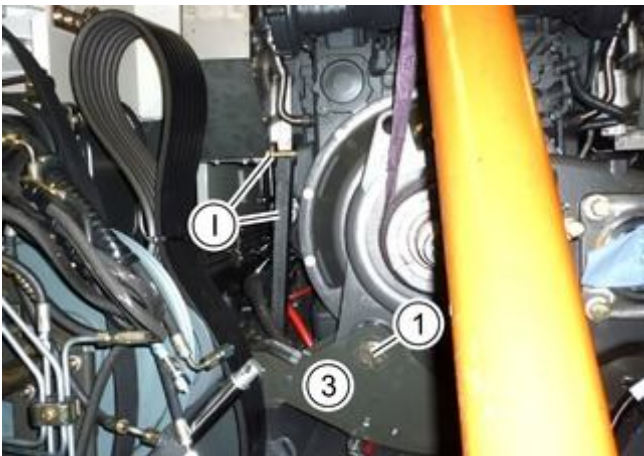
- ▶ Remove sheet metal (1) (if provided).



▢

Version with Caterpillar engine:

- ▶ Unscrew bolts (1).



▢

⚠ WARNING

Lifting heavy components.

Risk of death or serious injury.

- ▶ Use a lifting tool with a sufficient bearing load.
- ▶ Use a lifting tool that operates reliably.

- ▶ Use the lifting tool on solid and even ground.
- ▶ Attach the lifting tool to the component at the intended or a suitable position.
- ▶ Only use faultless and sufficiently dimensioned lifting accessories.
- ▶ Protect lifting accessories against sharp corners and edges, for example using protectors.

Transfer gearbox with additional bearing:

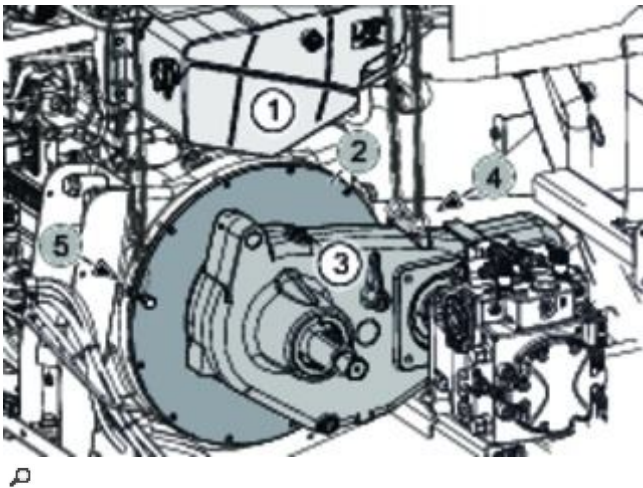
Use auxiliary tool (I) (engine support).

Transfer gearbox

- ▶ Suspend the gearbox (1) in suitable lifting equipment and raise it slightly together with the diesel engine.
Weight of diesel engine with fitted transfer gearbox:

Transfer gearbox

- ▶ Unscrew bolt (2).
- ▶ Support the diesel engine with auxiliary tool (I).
- ▶ Unscrew bracket (3) on both sides.

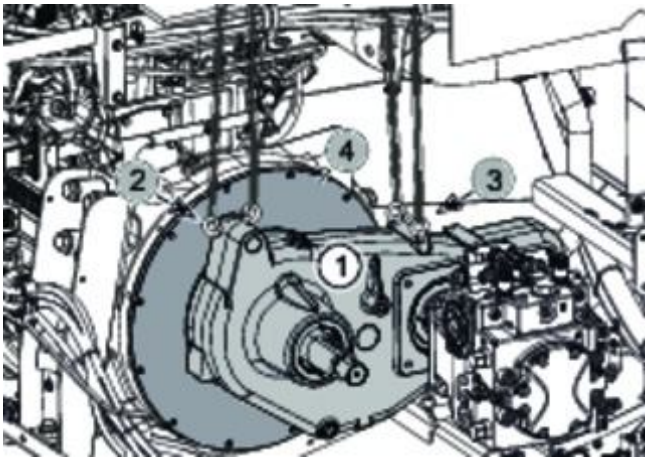


Version with compensating tank fitted laterally (1):

Use special tool (III) (ring bolts).

Transfer gearbox

- ▶ Unscrew engine cover (2) from flange of diesel engine housing.
- ▶ Suspend gearbox (3) in suitable lifting equipment at (4) with special tool (III) and pull it off of the diesel engine by 20 mm.
Weight of transfer gearbox:
Transfer gearbox
- ▶ Suspend gearbox (3) additionally at the lifting equipment at (5) with a shackle and pull it off of the diesel engine.
- ▶ Remove gearbox (3).



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Version without compensating tank fitted laterally:

Use special tool (III) (ring bolts).

Transfer gearbox

- ▶ Suspend gearbox (1) in suitable lifting equipment at (2) and (3), using special tool (III).

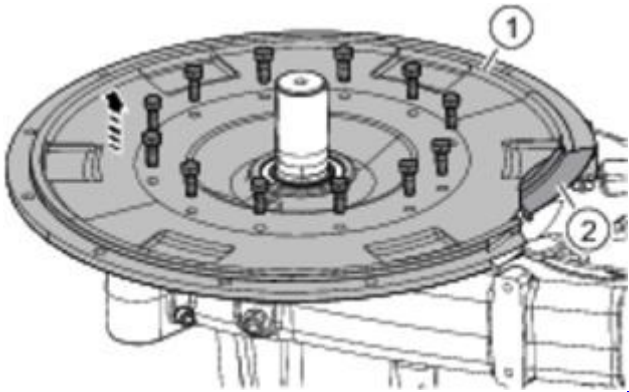
Weight of transfer gearbox:

Transfer gearbox

- ▶ Unscrew engine cover (4) from flange of diesel engine housing.
- ▶ Pull gearbox (1) off of diesel engine housing and remove it.

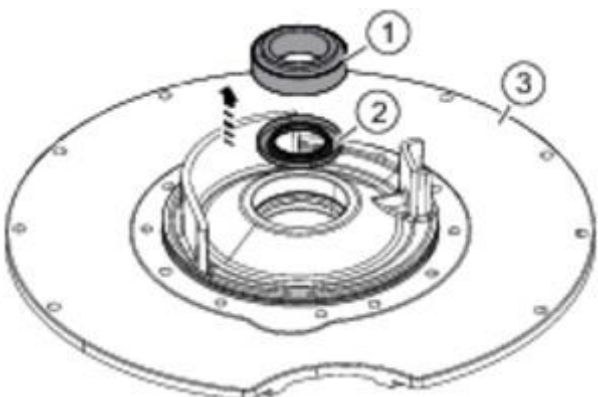
Disassembly

The assembly operations were carried out on transfer gearbox 00 0776 550 X.



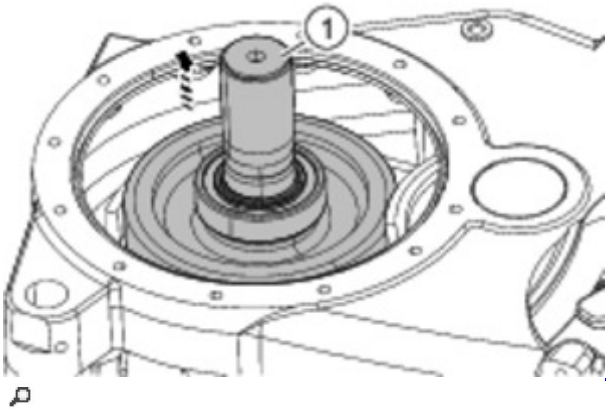
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- ▶ Remove engine cover (1) and seal (2).

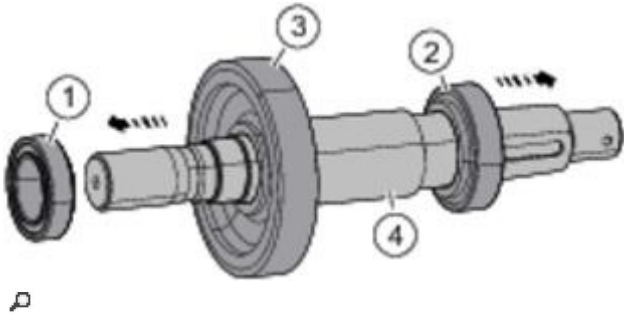


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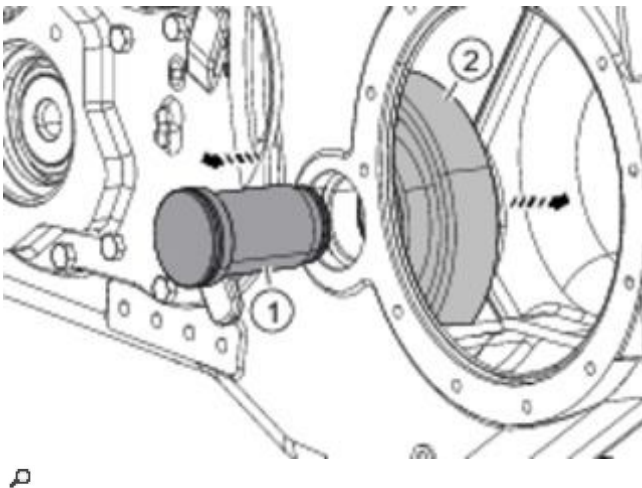
- ▶ Drive taper roller bearing outer race (1) and radial shaft seal (2) out of housing (3).



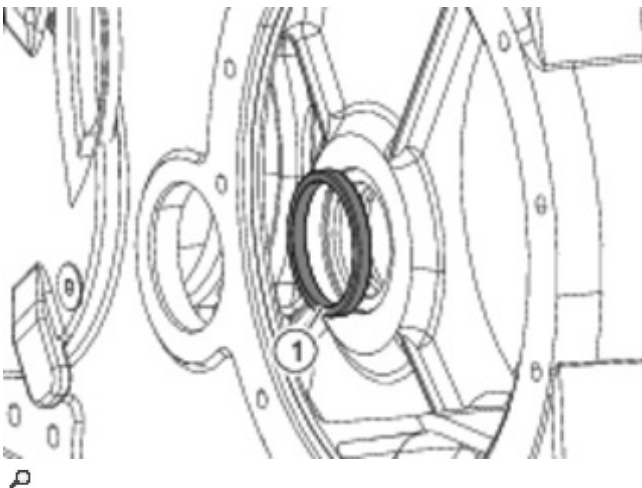
- ▶ Remove shaft (1).



- ▶ Pull taper roller bearing inner races (1) and (2) and spur gear (3) off of shaft (4).



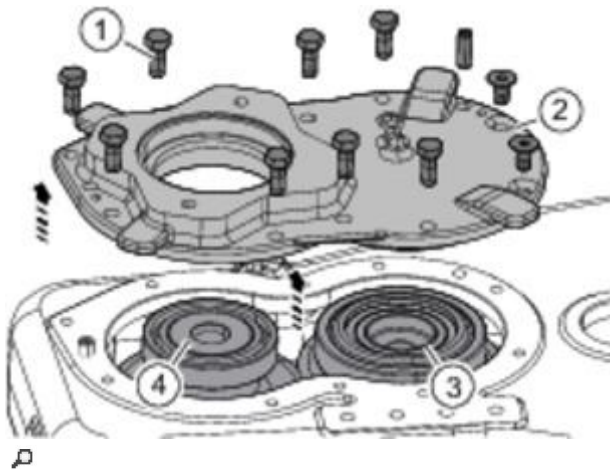
- ▶ Drive out shaft (1).
- ▶ Remove spur gear (2).



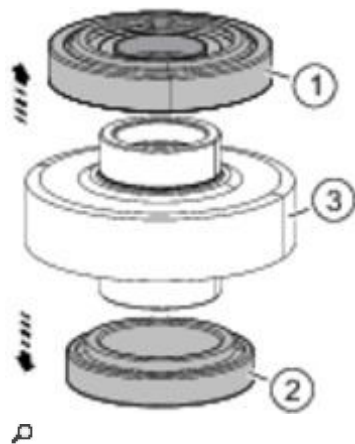
- ▶ Remove spacer ring (1).



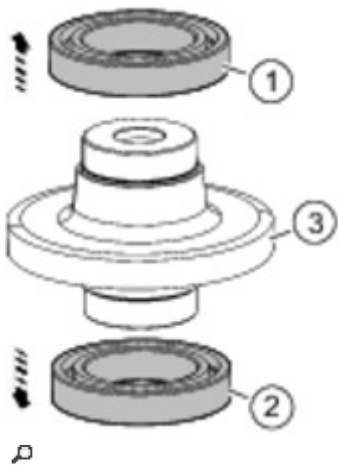
- ▶ Drive bearings (1) and (2) out of spur gear (3).



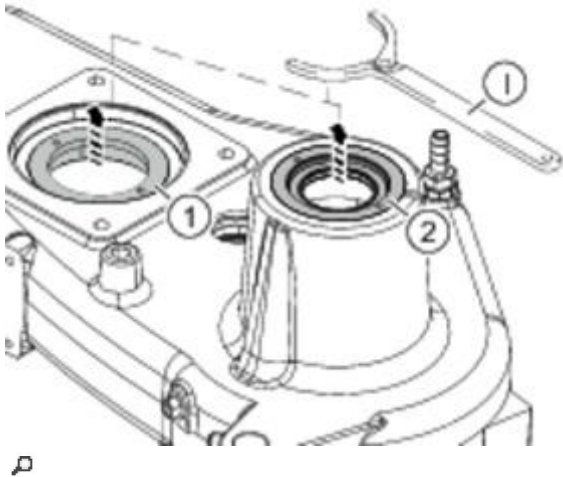
- ▶ Heat up bolts (1) to approx. 100 °C prior to disassembly.
- ▶ Screw bolts (1) into the free tapped holes of cover (2).
- ▶ Remove cover (2).
- ▶ Remove the spur gears (3) and (4).



- ▶ Pull the taper roller bearing inner races (1) and (2) off of spur gear (3).



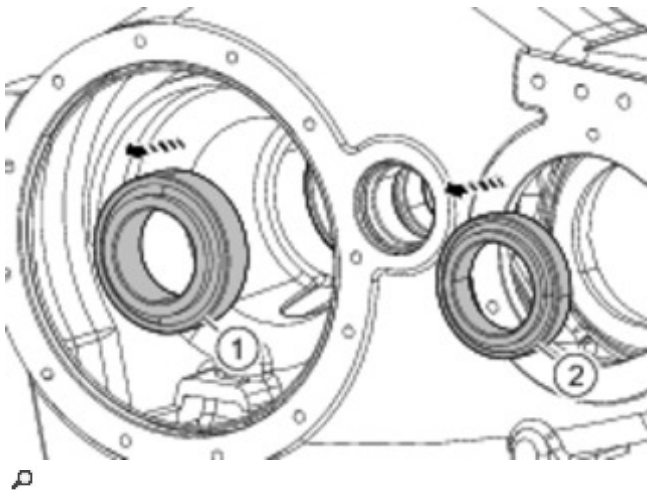
- ▶ Pull bearings (1) and (2) off of spur gear (3).



Use special tool (I) (pin hole wrench).

Transfer gearbox

- ▶ Unscrew threaded covers (1) and (2) with special tool (I).



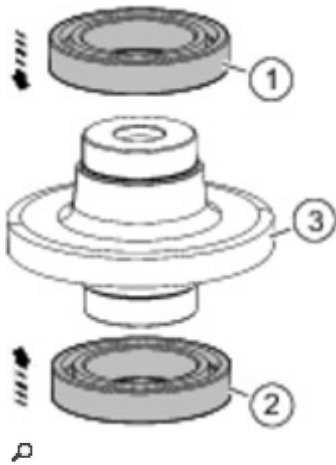
- ▶ Drive out taper roller bearing outer races (1) and (2).

Assembly

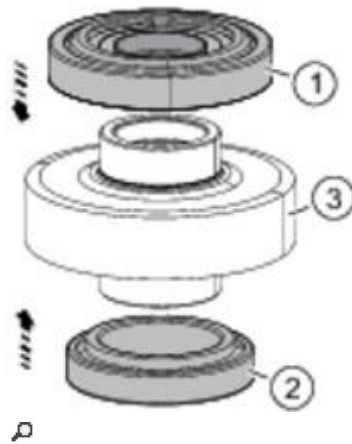
The assembly operations were carried out on transfer gearbox 00 0776 550 X.

- ▶ Apply transmission oil to moving parts as specified in the Operator's Manual.
- ▶ Clean all internal threads as well as the external threads of all bolts.

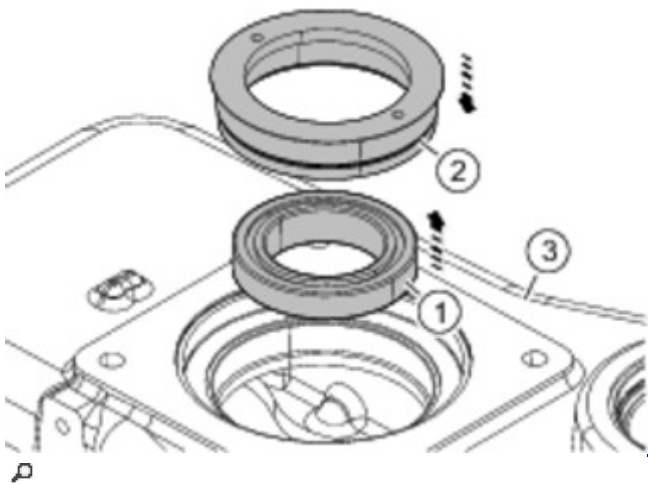
- ▶ Clean the sealing faces.
Treatment of sealing faces



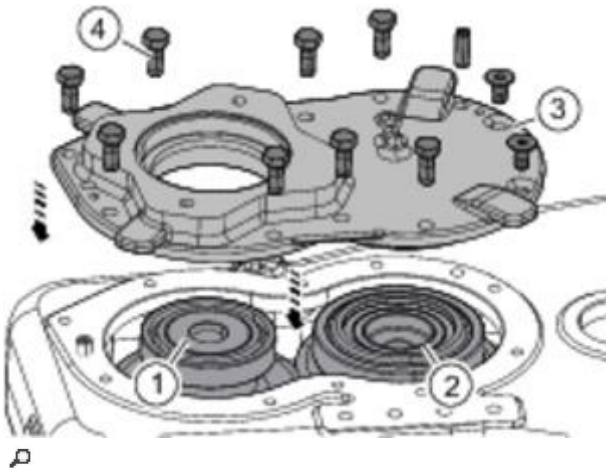
- ▶ Heat up bearings (1) and (2) to around 100 °C and install them on spur gear (3). Check the correct bearing seat with a blow on the bearing inner race.



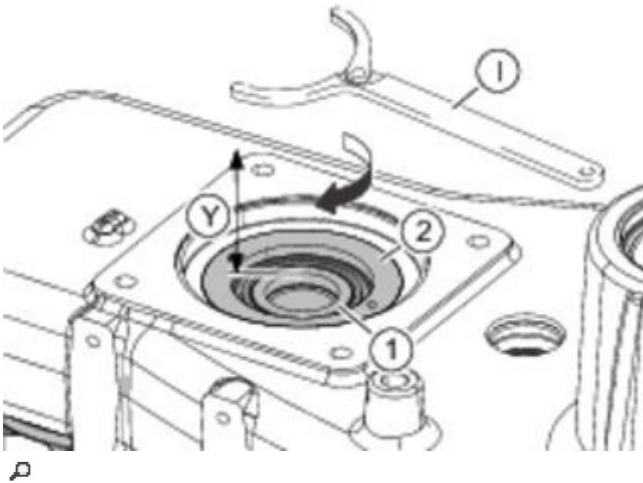
- ▶ Heat up taper roller bearing inner races (1) and (2) to around 100 °C and install them on spur gear (3). Check the correct bearing seat with a blow on the bearing inner race.



- ▶ Insert taper roller bearing outer race (1) into threaded cap (2).
- ▶ Slightly grease thread of threaded cap (2) with grease as specified in the Operator's Manual.
- ▶ Screw screw cap (2) (pre-assembled) loosely into housing (3).



- ▶ Insert spur gears (1) and (2) (pre-assembled) into the housing.
- ▶ Insert the taper roller bearing outer race into cap (3).
- ▶ Coat flange face of cover (3) with Loctite 5188 and install the cover.
- ▶ Coat and tighten bolts (4) with DELO-ML 5328.



Use special tool (I) (pin hole wrench).

Transfer gearbox

- ▶ Adjusting the axial play (Y) of spur gear (1):
 - ▶ Adjust screw cap (2) to dimension (Y) while turning spur gear (1) with special tool (I).
Transfer gearbox
 - ▶ Caulk the screw cap (2) without cracks.



- ▶ Pre-assemble spur gear (1) with bearings (2) and (3).

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