

SCORPION

7044 (K24 / 416-01)

7050 (K25 / 416-07)

7055 (K26 / 416-03)

9055 (K27/416-05)

Repair manual

Validity of manual

Machine	Type	Sub-type	Vehicle identification number	
			from	to
SCORPION 7044	K24 (416-01)	210	416_010001	416_019999
SCORPION 7044	K24 (416-01)	220	416_010001	416_019999
SCORPION 7044	K24 (416-01)	310	416_010001	416_019999
SCORPION 7044	K24 (416-01)	320	416_010001	416_019999
SCORPION 7050	K25 (416-07)	200	416_070001	415_079999
SCORPION 7050	K25 (416-07)	210	416_070001	415_079999
SCORPION 7050	K25 (416-07)	300	416_070001	415_079999
SCORPION 7050	K25 (416-07)	310	416_070001	416_079999
SCORPION 7055	K26 (416-03)	200	416_030001	416_039999
SCORPION 7055	K26 (416-03)	210	416_030001	416_039999
SCORPION 7055	K26 (416-03)	300	416_030001	416_039999
SCORPION 7055	K26 (416-03)	310	416_030001	416_039999
SCORPION 9055	K27 (416-05)	200	416_050001	416_059999
SCORPION 9055	K27 (416-05)	210	416_050001	416_059999
SCORPION 9055	K27 (416-05)	300	416_050001	416_059999
SCORPION 9055	K27 (416-05)	310	416_050001	416_059999



⌘

Use special tool (I):

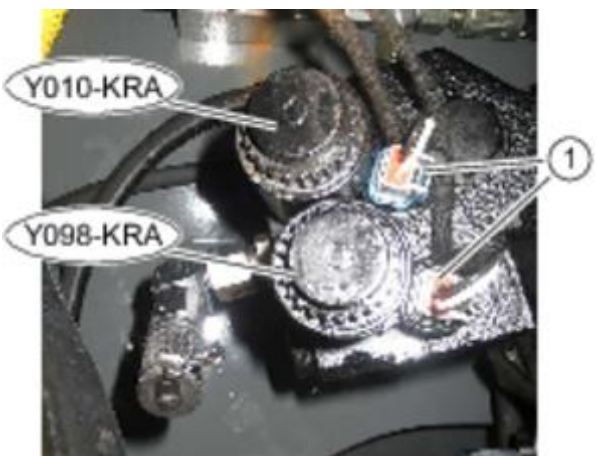
High-speed gearbox

- ▶ Unscrew screw plug (1) and bolt down special tool (I).



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- ▶ Disconnect connector (1) from valve (Y002-KRA).



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- ▶ Disconnect connectors (1) from valves (Y010-KRA) and (Y098-KRA).



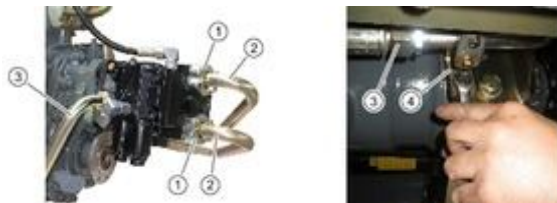
D

- ▶ Unscrew hydraulic lines (1) and (2).



D

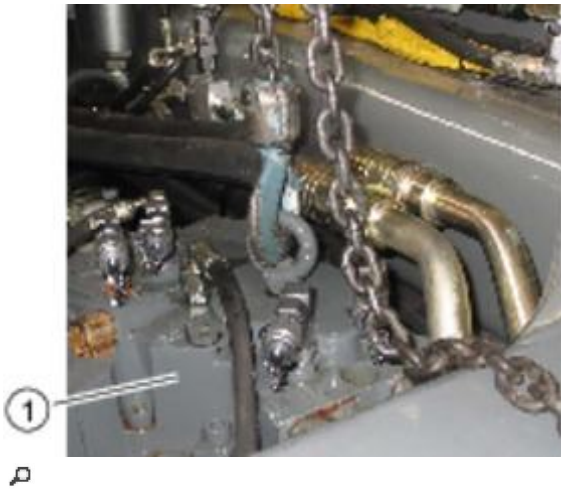
- ▶ Unscrew bolts (1).
- ▶ Remove hydraulic lines (2).



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Applies to SCORPION 7055 and 9055

- ▶ Unscrew bolts (1).
- ▶ Remove hydraulic lines (2).
- ▶ Unscrew leakage oil line (3).
- ▶ Unscrew bracket (4) of leakage oil line (3).
- ▶ Remove the load stabiliser pressure accumulator 080.
Pressure accumulator, load stabiliser
 - ▶ Do **not** remove the hydraulic lines from the pressure accumulator.
- ▶ Remove the universal drive shafts.
Universal drive shafts



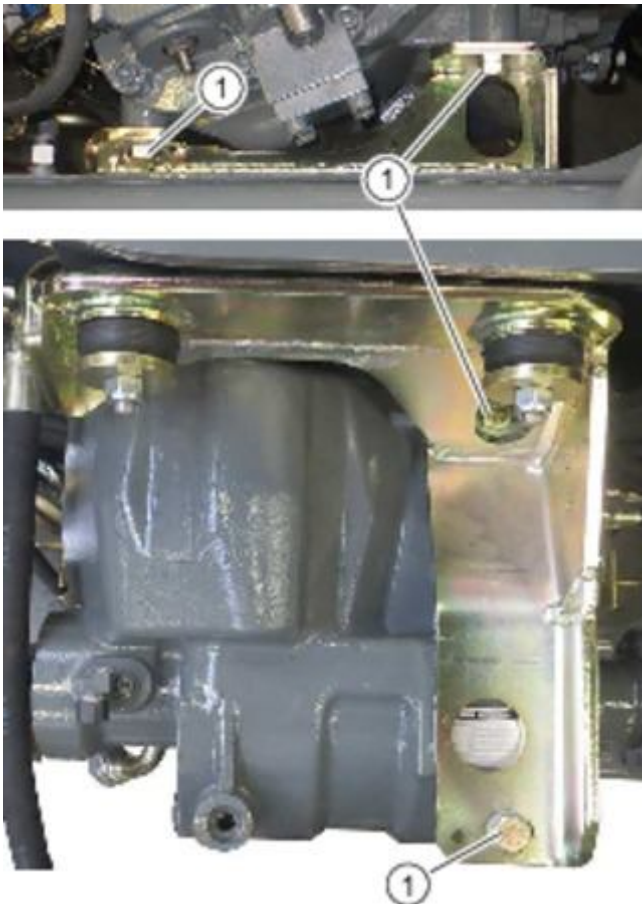
⚠ WARNING

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.

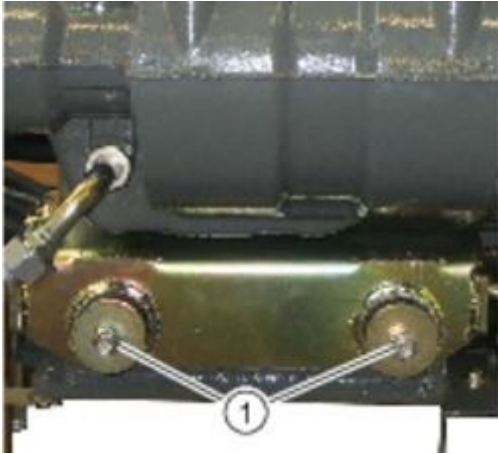
-
- ▶ Suspend the high-speed gearbox (1) in a suitable lifting equipment and secure against falling down.





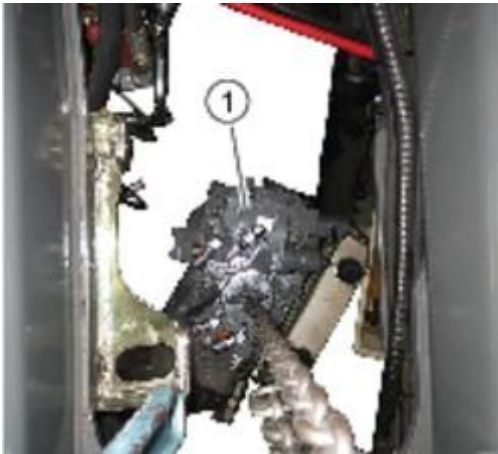
View from the right in direction of travel

- ▶ Unscrew bolts (1).



View from the left in direction of travel

- ▶ Unscrew nut (1).



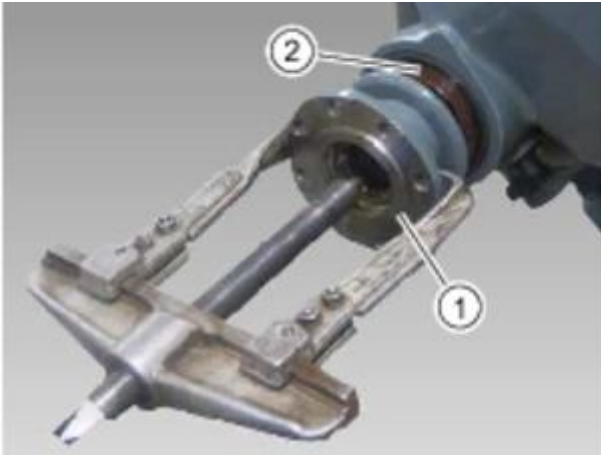
- ▶ Lower the high-speed gearbox (1) carefully.

Disassembly

- ▶ Remove the additional ground drive hydraulics variable-displacement motor [VIII] if required.
Additional ground drive hydraulics variable-displacement motor

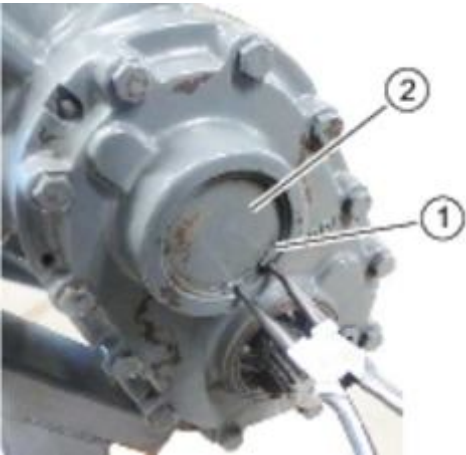


- ▶ Unscrew bolt (1).



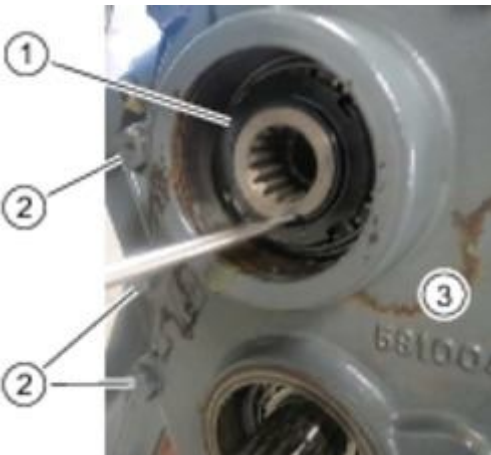
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- ▶ Pull off flange (1).
- ▶ Remove sealing rings (2).



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- ▶ Remove circlip (1).
- ▶ Remove lid (2).
The cover is destroyed while dismounting.

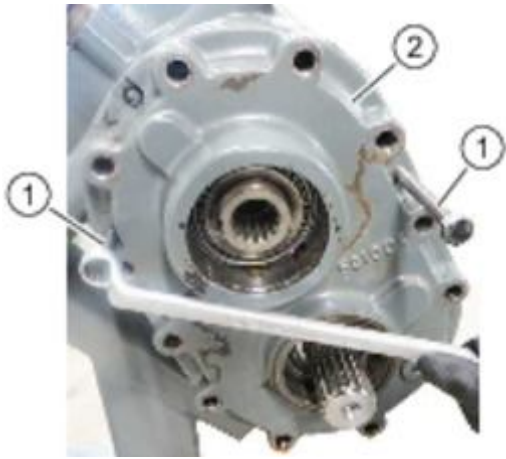


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Use special tools (III) and (IX):

High-speed gearbox

- ▶ Unscrew slotted nut (1) with special tools (III) and (IX).
- ▶ Unscrew all bolts (2) of cover (3).



▫

- ▶ Push off cover (2) with bolts (1).
Bolts (1) = M10x50



▫

- ▶ Remove sensor (B009-KRA).



▫

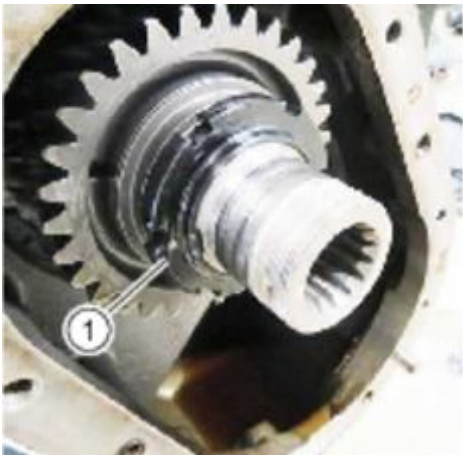
Use special tool (VII):

High-speed gearbox

- ▶ Remove output shaft (1) together with inner bearing race (2) and gear (3).



- ▶ Pull inner bearing race (1) and gear (2) off of the output shaft (3).
- ▶ Remove the timing cover.
Timing cover



Use special tool (II):

High-speed gearbox

- ▶ Unscrew slotted nut (1).



- ▶ Pull off gear (1).



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- ▶ Remove circlip (1).

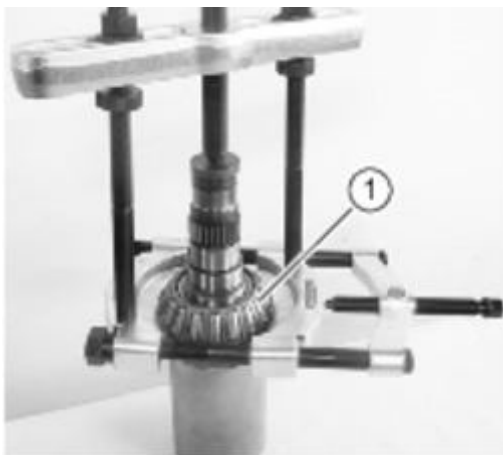


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Use special tool (VII):

High-speed gearbox

- ▶ Remove drive unit (1) with special tool (VII).
 - ▶ Remove intermediate ring (2) in this process.



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- ▶ Pull off inner bearing race (1).



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- ▶ Remove swinging bracket (1).



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- ▶ Pull off bearing (1).

Assembly



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- ▶ Press on bearing (1).



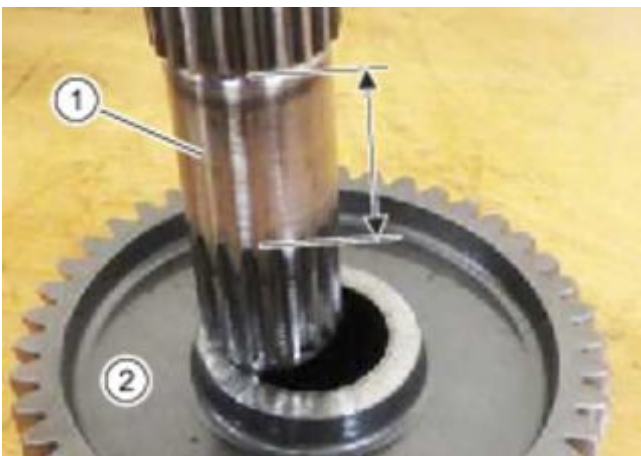
p

- ▶ Insert swinging bracket (1).



p

- ▶ Insert slide block (1).
 - ▶ Ensure that the short slide block side points towards the rotary coupling as shown in the figure.
- ▶ Fit new seal.
- ▶ Install the timing cover.
 - [Timing cover](#)



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- ▶ Insert drive shaft (1) into gear (2).
 - ▶ Ensure that the drive shaft is installed with the long bearing side towards the gear.



▫

Use special tool (V):

High-speed gearbox

- ▶ Force on inner bearing race (1).



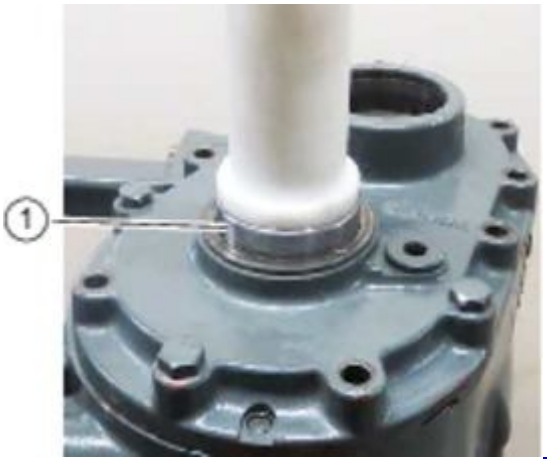
▫

- ▶ Insert drive shaft (1).



▫

- ▶ Bolt down gearbox cover (1).
Bolt down the cover using only every other bolt.
This cover will be dismantled once again later.

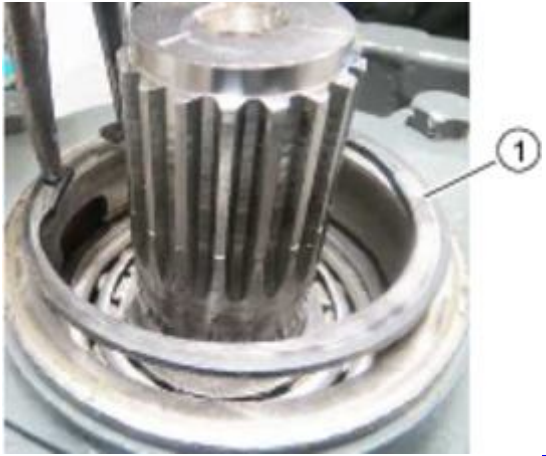


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Use special tool (V):

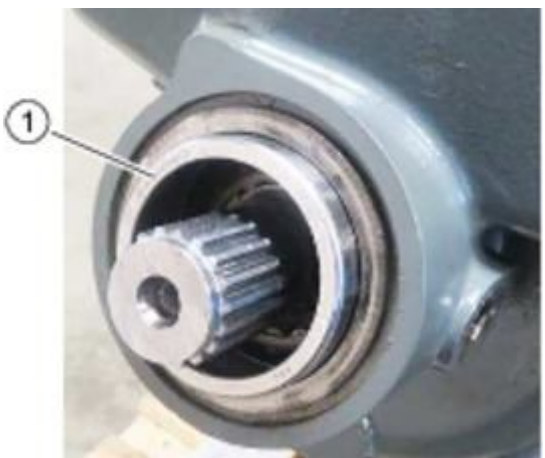
High-speed gearbox

- ▶ Install the bearing outer race (1).



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- ▶ Insert circlip (1).
Do **not** insert the adjusting shims.
- ▶ Turn the gearbox by 180°.



⌘

Use special tool (V):

High-speed gearbox

- ▶ Install the bearing outer race (1).

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