

## Disassembly

Some figures may not show the axle exactly as it is on your tractor, but the procedure described remains unchanged.

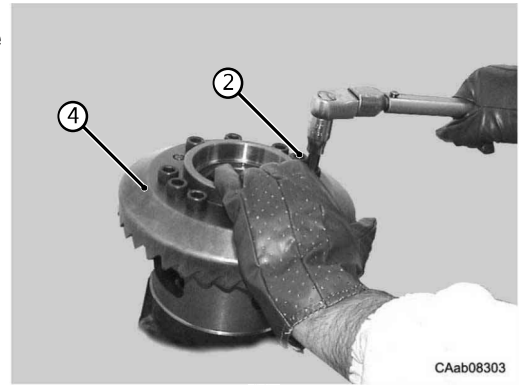
See para. [Differential assembly - carrier](#)

for disassembly of the differential unit.

Hold the differential case in a vice

Unscrew all fixing screws (2) of crown wheel (4).

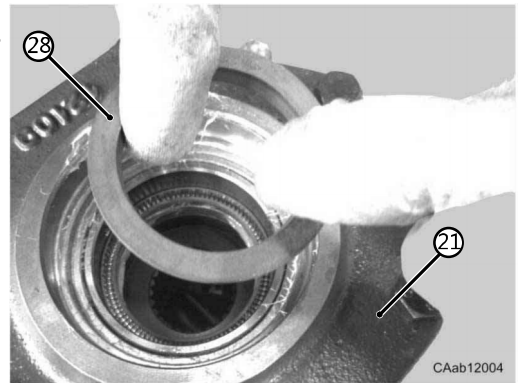
Remove crown wheel (4).



1.

Withdraw the bearing cups from the crown wheel and from differential case (21) using a puller.

Remove the washer (28).



2.

Remove the oil seal.

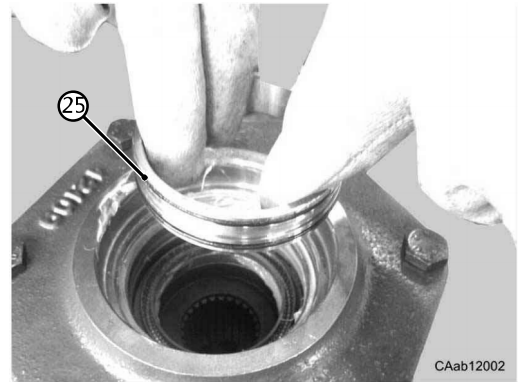


**NOTE:**

This operation will destroy the oil seal.

Remove spacer (25).

Remove the O-ring from the spacer.



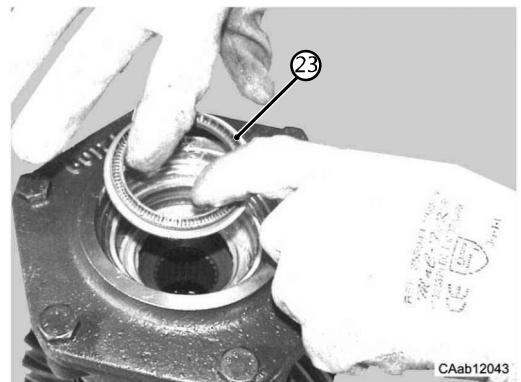
3.

Remove oil seal (23).



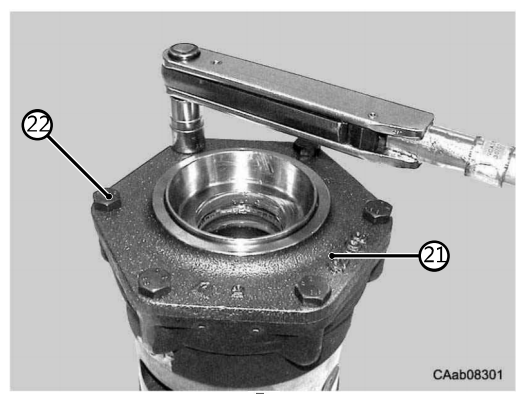
**NOTE:**

This operation will destroy the oil seal.



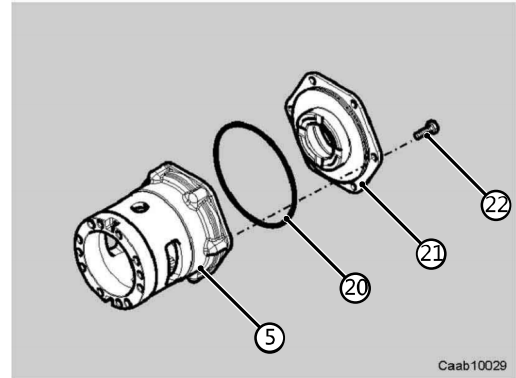
4.

Unscrew all fixing screws (22) from cover (21).



5.

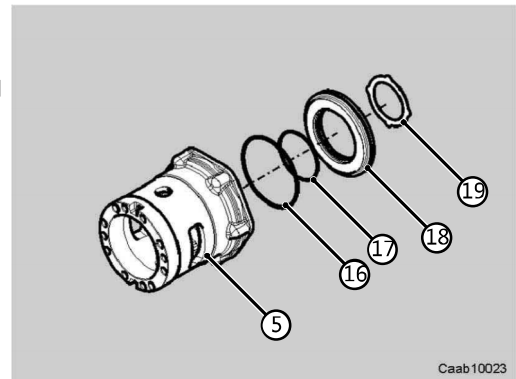
Remove cover (21) and relative O-ring (20).



6.

Withdraw piston (18) and washer (19).


Recover O-rings (17) and (16) from the differential lock piston (internal and external).



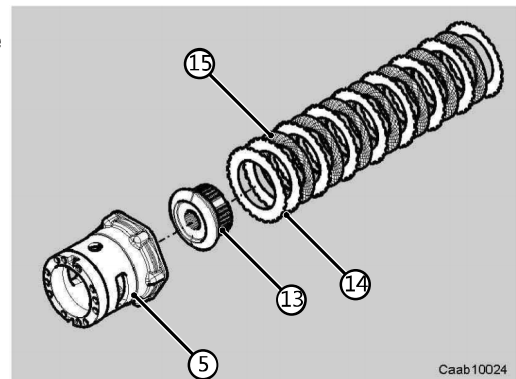
7.

Remove from differential case (5): pressure plates (14), discs (15) and side gear (13).

**NOTE:**



Separate, carefully clean and examine all the removed components, checking them for wear and functionality.




8.

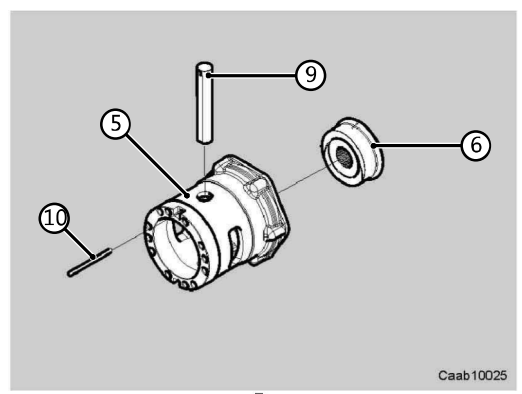
Using a pin punch, drive dowel (10) out of its hole and remove planet pin (9).

Disassemble and recover all the parts from differential case: planet pinions, thrust washers, side gear (6).

**NOTE:**



Examine all the removed components, checking them for wear and condition.



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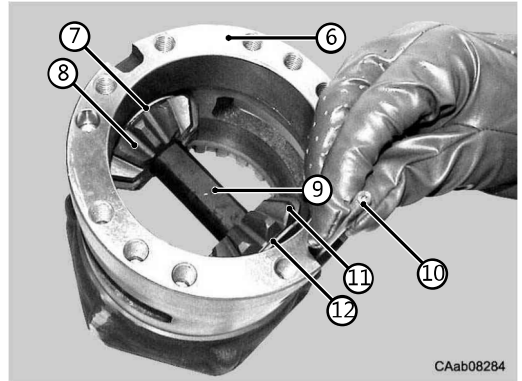
9.

## Assembly

Some figures may not show the axle exactly as it is on your tractor, but the procedure described remains unchanged.

Install pin (9), planet pinions (8) and (11), thrust washers (7) and (12) in differential case (6).

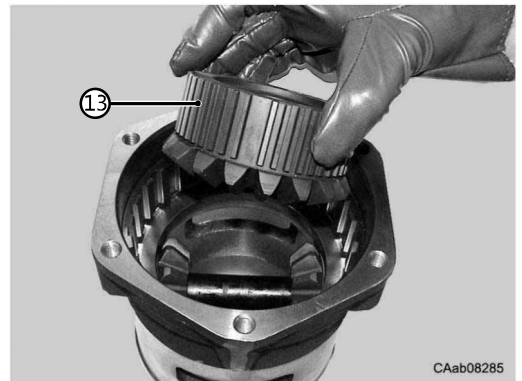
Install dowel (10).



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1.

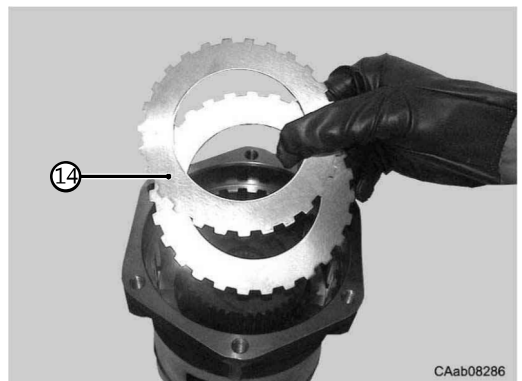
Install differential side gear (13).



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2.

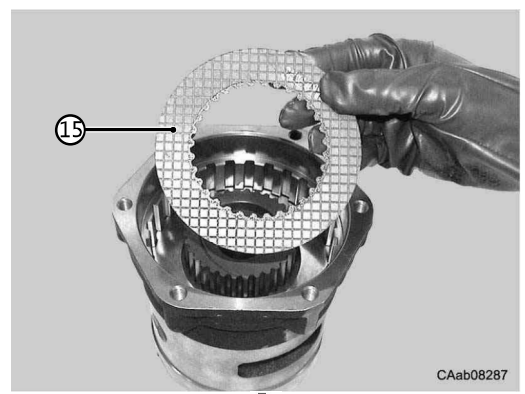
Install pressure plates (14).



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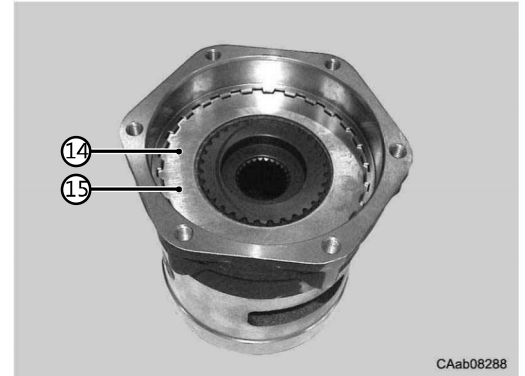
3.

Install first disc (15).



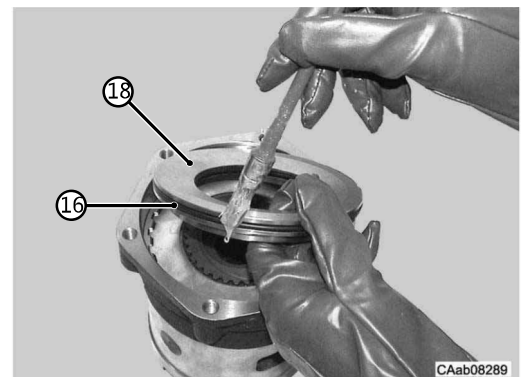
4.

Install other discs (15) and pressure plates (14).



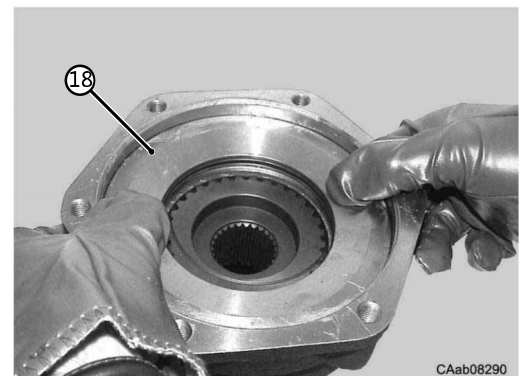
5.

Lubricate new O-rings (16) and (17) and install them on piston (18).



6.

Install piston (18).



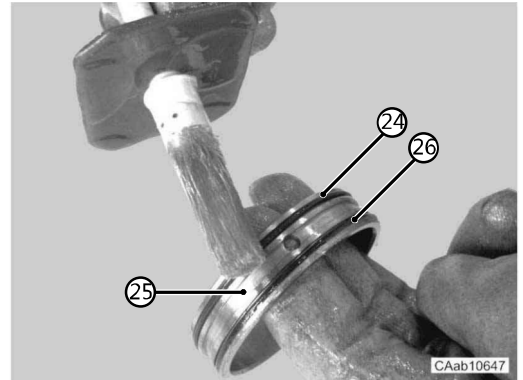
7.

Lubricate oil seal (23) and install it in cover (21).



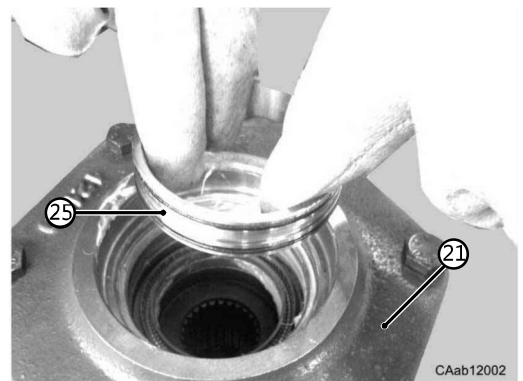
8.

Lubricate new O-rings (24) and (26) and install them on spacer (25).



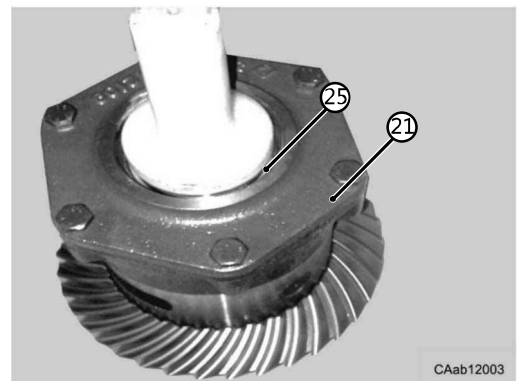
9.

Install spacer (25) in cover (21).



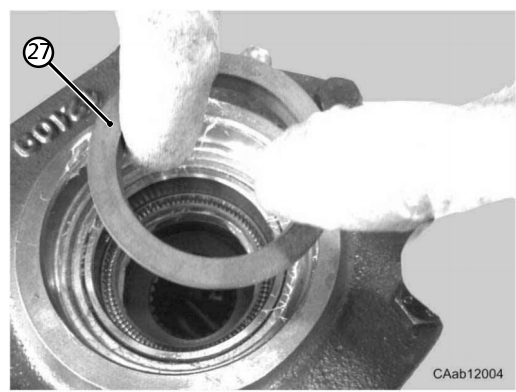
10.

Insert spacer (25) in cover (21) using service tool 5.9035.032.0.



11.

Lubricate and install oil seal (27).

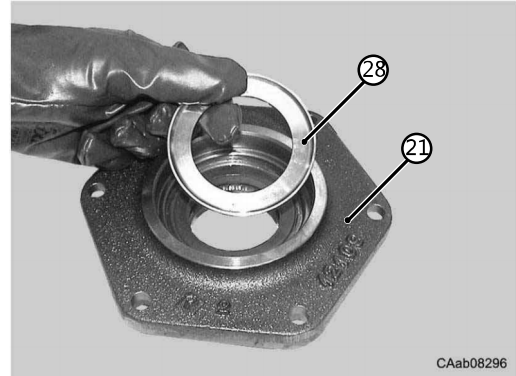


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12.

Install washer (28) in cover (21).

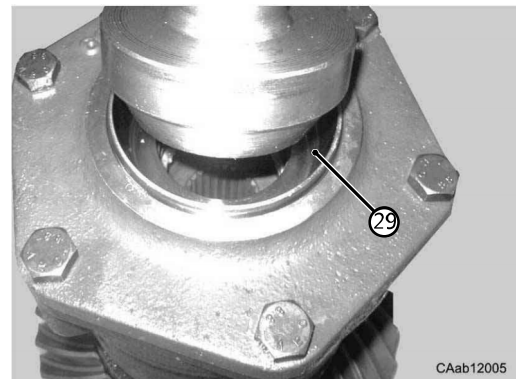


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13.

Install cup of bearing (29) with service tool 5.9035.019.0.

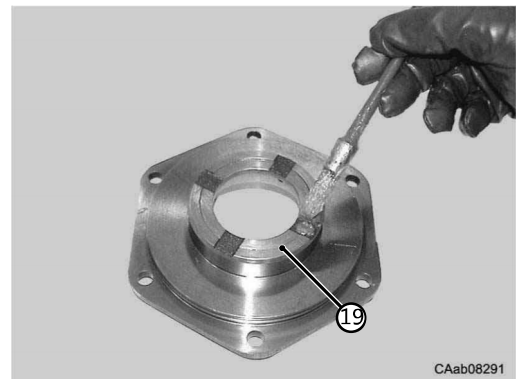


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14.

Lightly grease the seat of differential lock pressure plate (19).  
L (20)(21).

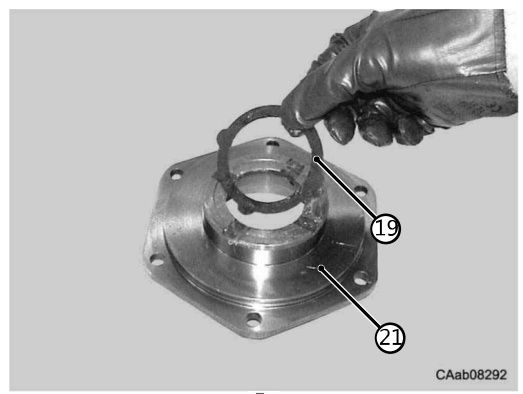


CAab08291



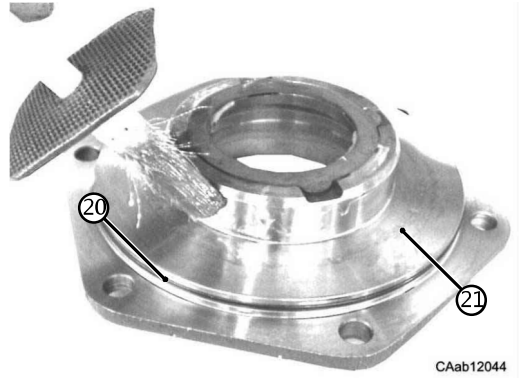
15.

Install differential lock pressure plate (19) in cover (21) with a thin smear of grease.



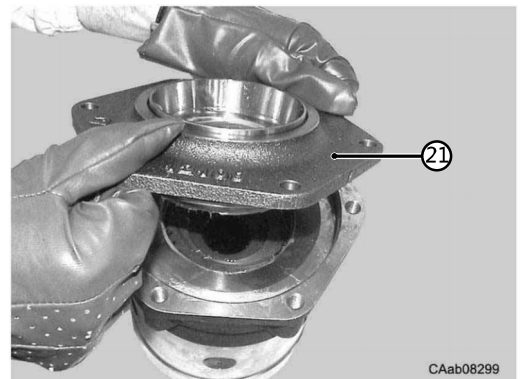
16.

Lubricate a new O-ring (20) and install it in cover (21).



17.

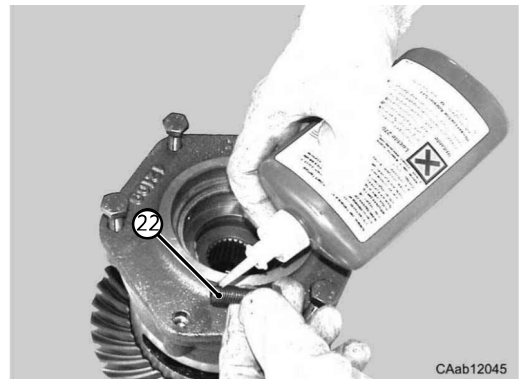
Fit cover (21).



18.

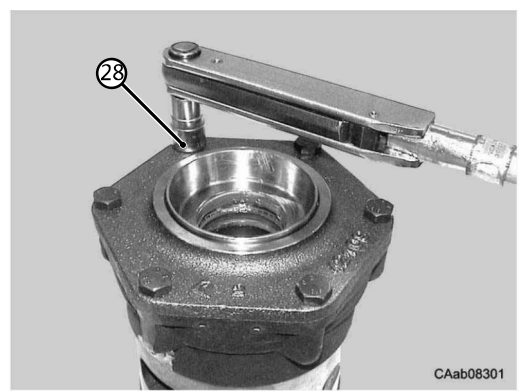
Apply the prescribed sealant to fixing screws (22).

Insert fixing screws (22).



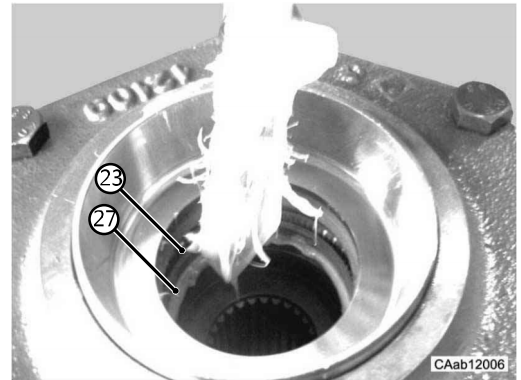
19.

Tighten screws (24) to the specified torque.



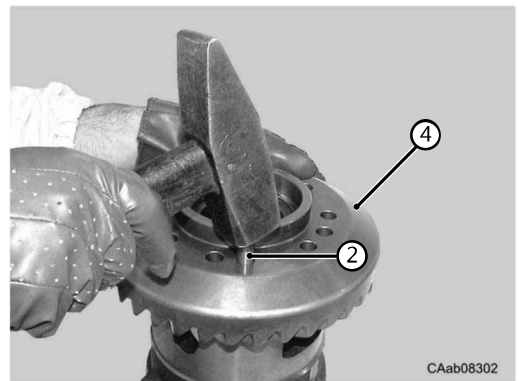
20.

Lubricate the lips of oil seals (23) and (27).



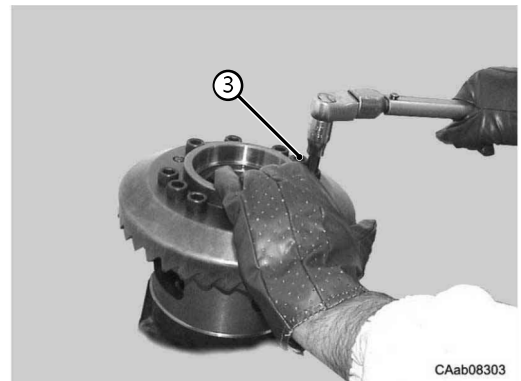
21.

Fit crown wheel (4) and pin (2).



22.

Insert screws (3) and tighten to the specified torque.

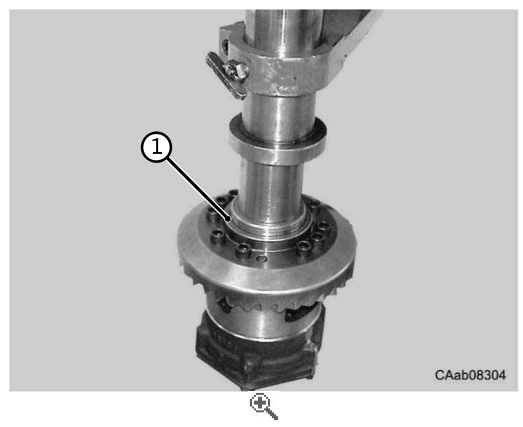


23.

Install the cup of bearing (1) with service tool 5.9035.019.0.



24.



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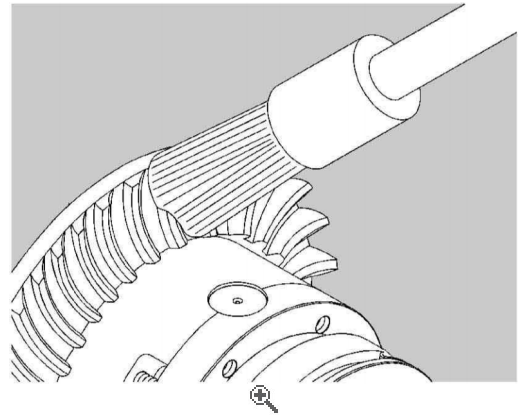


## Checking the bevel gear pair

### NOTE:



To check the tooth contact pattern of the bevel gear pair, coat the crown wheel with minium and rotate to identify the tooth contact pattern. The tooth contact pattern should always be checked on both sides of the teeth of the crown wheel.



1.

OK -> Correct tooth contact:

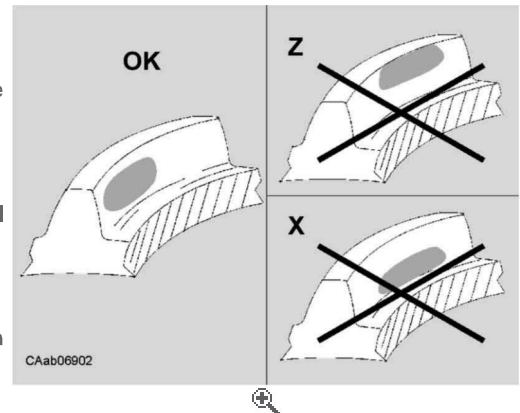
If the bevel gear pair is correctly adjusted, the tooth contact pattern will be regular.

Z -> Excessive contact at top of tooth:

Bring the pinion closer to the crown wheel and then move the crown wheel away from the pinion to adjust the backlash.

X -> Excessive contact at bottom of tooth:

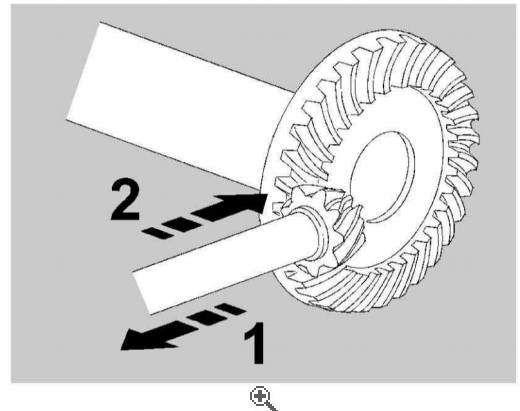
Move the pinion further away from the crown wheel and then bring the crown wheel closer to the pinion to adjust the backlash.



2.

Corrections:

1. move the pinion to correct tooth contact type X.
2. move the pinion to correct tooth contact type Z.



3.

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