

AVERO 240

AVERO 160

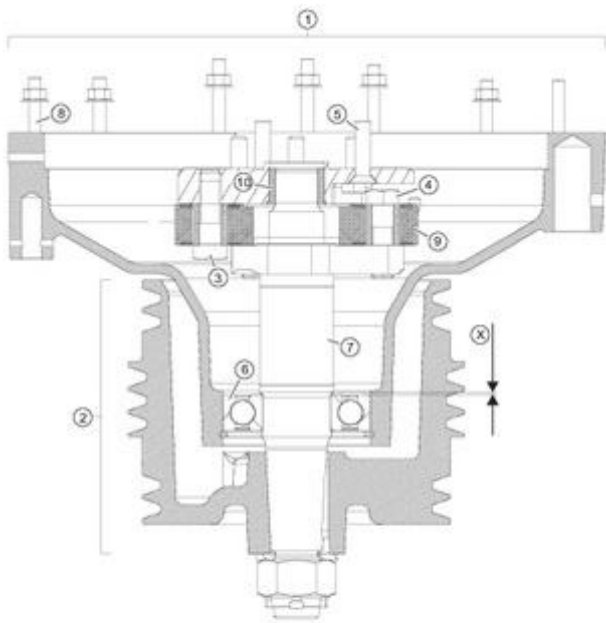
Repair manual

Genuine repair manual

Validity of manual

This manual applies to the following machine / front attachment:

Machine	Type	Vehicle identification number	
		from	to
AVERO 240	561	56100011	–
AVERO 160	560	56000011	–



⚠

	Value	CCN	Remark / designation	
1			Engine output.	
2			Engine output pulley.	<u>Engine output pulley.</u>
3, 4	296 Nm		Insert bolts (3) and (4) with DELO ML 5328. Caution! Use only the bolts specified by the manufacturer.	<u>Engine output</u>
5	107 Nm			
6, 7			Heat up bearing (6) to approx. 100 °C for installation and install it on shaft (7) up to dimension (X) ahead of the shoulder edge.	
8	48.5 Nm			
9			Check flexible disc (9) for cracks and damage and replace it if required.	
10			Replace bushing (10) when installing.	
X	2.5 mm		Installation dimension	
Tightening torques not specified, see "Introduction / Tightening torques" chapter				

Removal

- ▶ Remove the engine output pulley.
Engine output pulley.
- ▶ Remove the starter (M021).
See the Repair Manual of the diesel engine in question.

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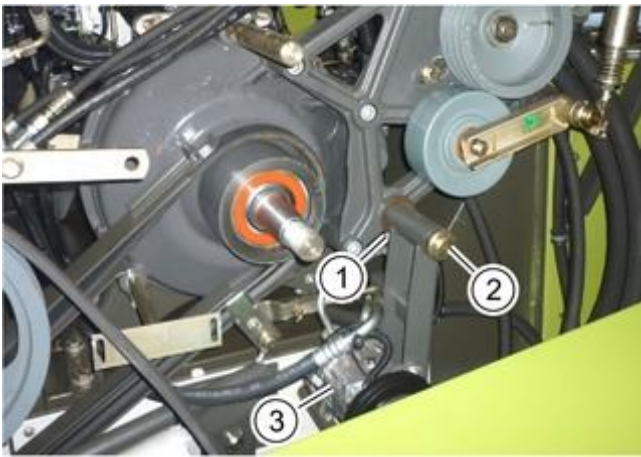
Hello dear friend!

Thank you very much for reading.

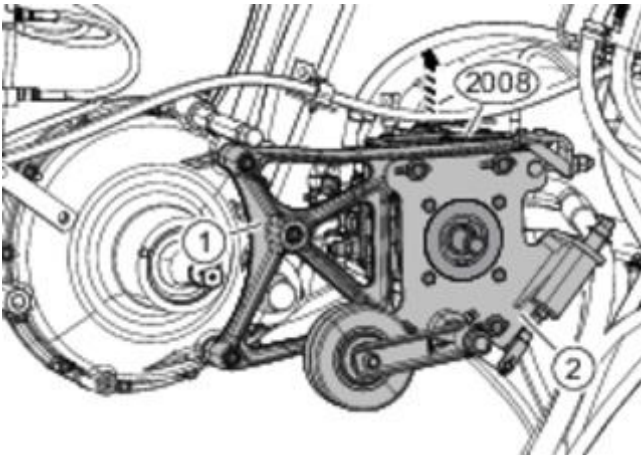
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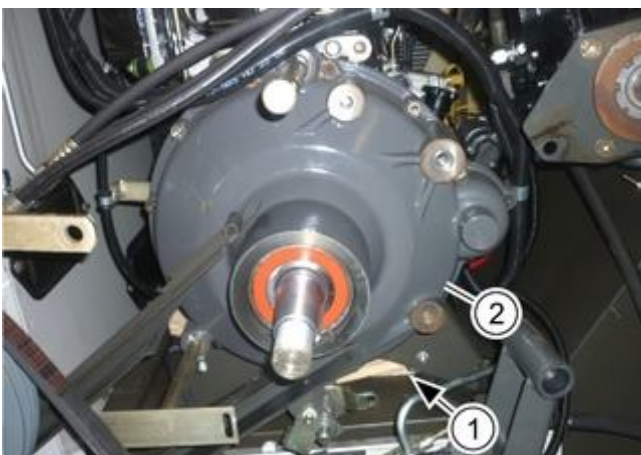
- ▶ Slacken off bolt (1).
- ▶ Pull out shaft (2).
- ▶ Remove compressor (3) downwards and put it aside.
- ▶ Remove the driven pulley of belt (R05).
Driven pulley of belt (R05)



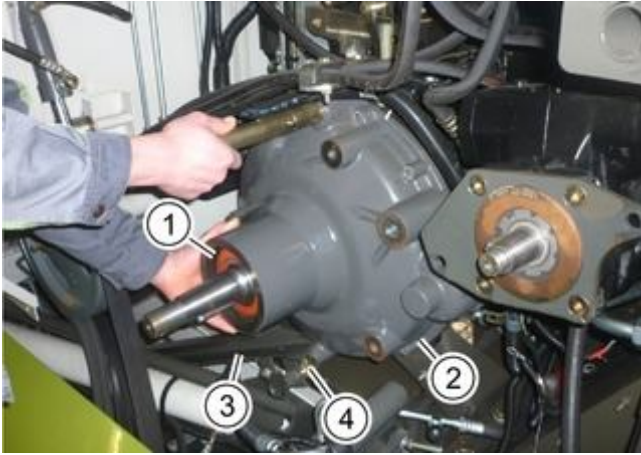
Use special tool (I) (lifting strap).

Engine output

- ▶ Suspend pump (2008) with special tool (I).
- ▶ Remove brackets (1) and (2).

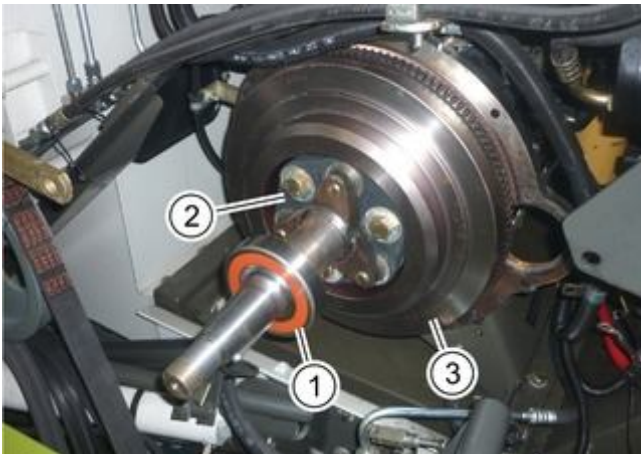


- ▶ Support the diesel engine with timber blocks at (1).
- ▶ Unscrew housing (2) from the engine housing.



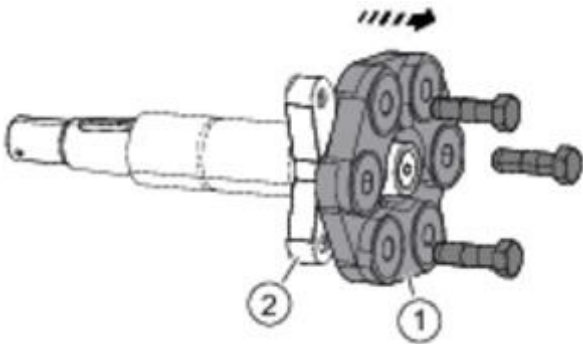
▢

- ▶ Remove circlip (1).
- ▶ Pull housing (2) forward a little and twist it.
- ▶ Pull belt guide (3) off of pin (4).
- ▶ Remove housing (2).



▢

- ▶ Pull off bearing (1).
- ▶ Unscrew flexible disc (2) from engine pulley (3).



▢

- ▶ Unscrew flexible disc (1) from shaft (2).



▫

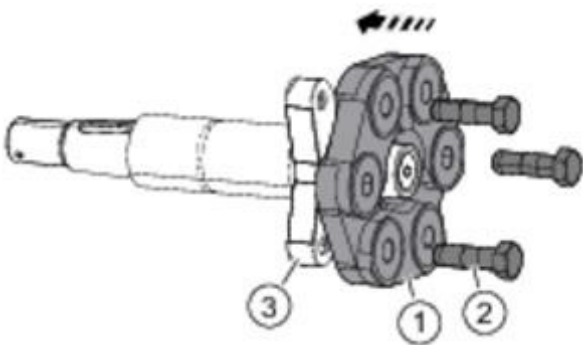
- ▶ Remove bushing (1) from adapter (2).

Installation



▫

- ▶ Insert a **new** bushing (1) into adapter (2).

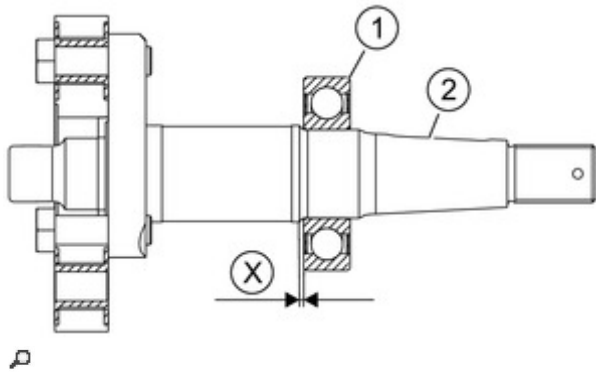


▫

Insert bolts (2) with DELO ML 5328.

Engine output

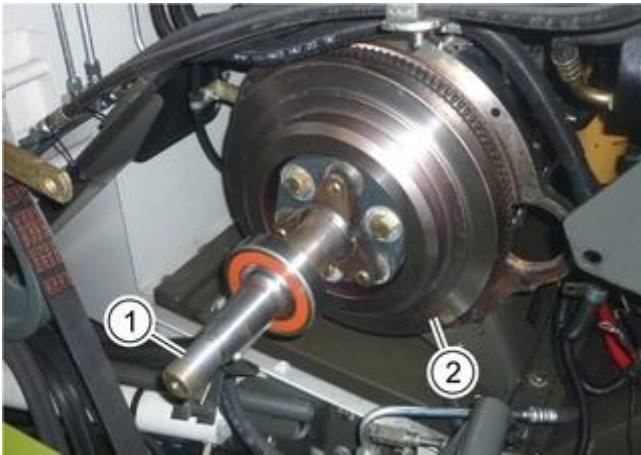
- ▶ Check flexible disc (1) for cracks and damage and replace it if required.
- ▶ Bolt flexible disc (1) down to shaft (3) with bolts (2).



Observe the technical specifications!

Engine output

- Heat up bearing (1) to **approx. 100 °C** and install it on shaft (2) up to dimension (X) ahead of the shoulder edge.



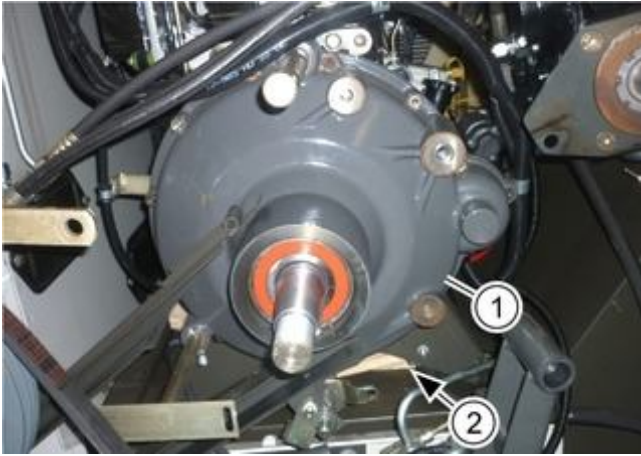
Insert bolts with DELO-ML 5328.

Engine output

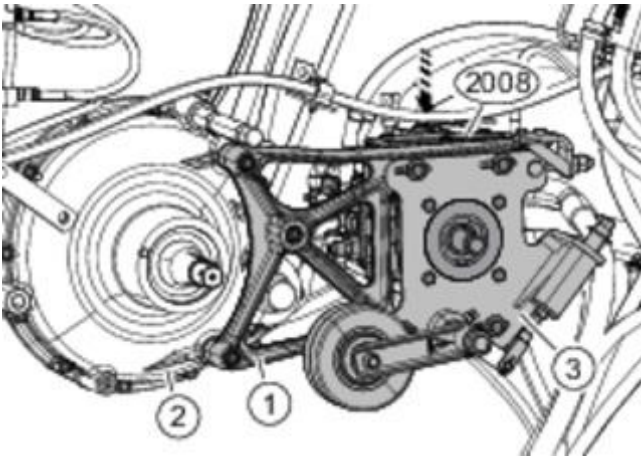
- Bolt shaft (1) (pre-assembled) down to the engine pulley (2).



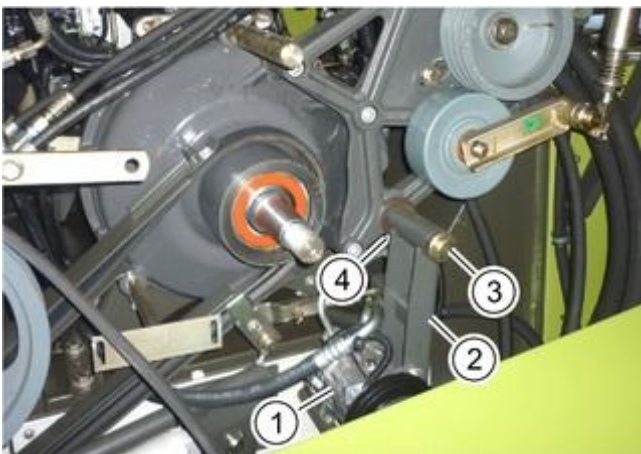
- Slide housing (1) onto shaft (2).
- Slide belt guide (3) onto pin (4).
- Slide housing (1) ahead of the engine housing.
- Insert circlip (5).



- ▶ Bolt housing (1) down to the engine housing.
- ▶ Remove timber blocks at (2).



- ▶ Bolt bracket (1) down to housing (2).
- ▶ Install pump (2008) and bracket (3).
- ▶ Install the driven pulley of belt (R05).
Driven pulley of belt (R05)

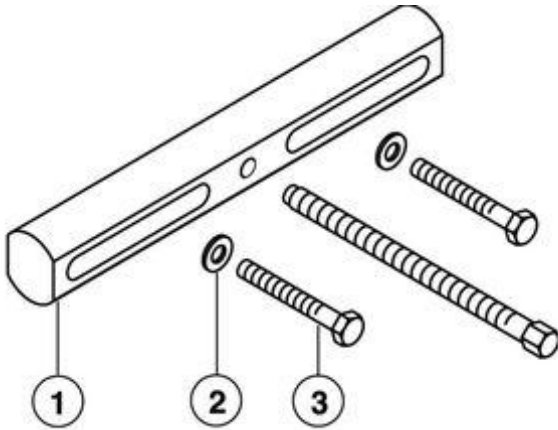


- ▶ Hold compressor (1) with bracket (2) in installation position.
- ▶ Grease shaft (3) slightly with CLAAS AGRIGREASE EP 2 and slide it in.
Engine output
- ▶ Arrest shaft (3) with bolt (4).

- ▶ Install starter (M021).
See the Repair Manual of the diesel engine in question.
- ▶ Install the engine output pulley.
Engine output pulley.
- ▶ Check the function.

Engine output pulley

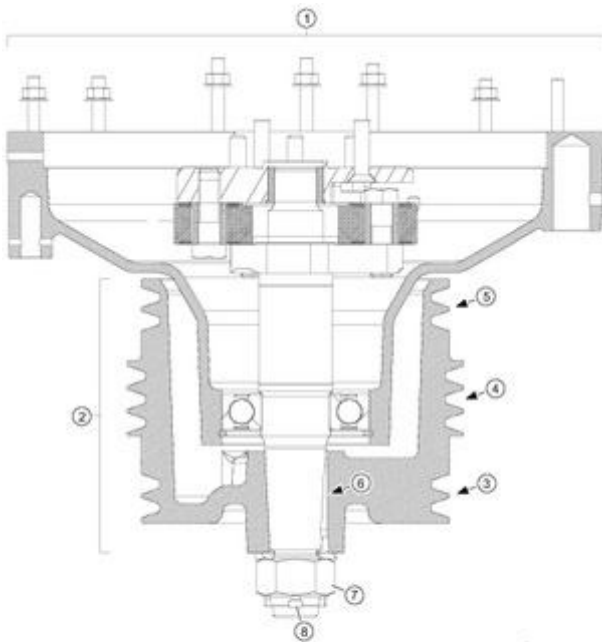
Special tool



Pulling off the engine output pulley

	Special tool (l)	Pcs.
1	Puller bridge 00 0181 621 0	1
2	Washer 00 0712 415 0	2
3	Hex. bolt ISO 4014 M12x150 00 0242 382 0	2

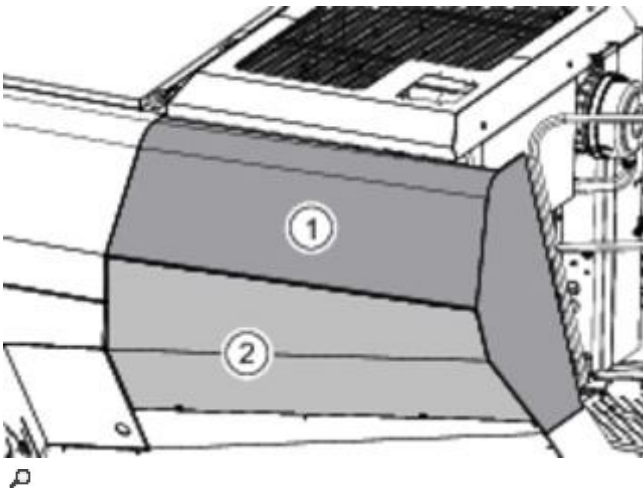
Technical specifications



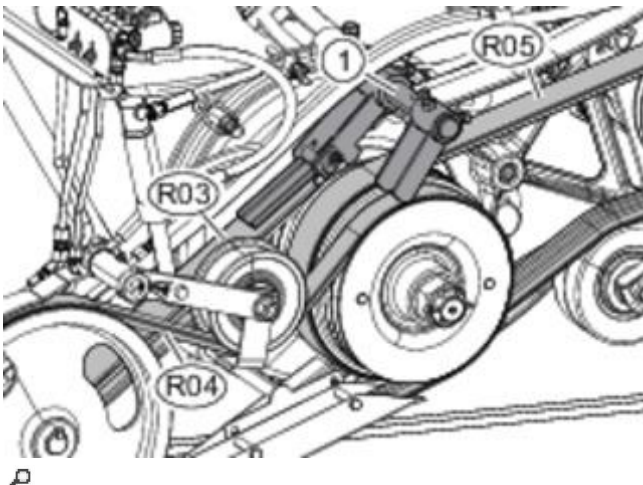
	Value	CCN	Remark / designation	
1			Engine output	<u>Engine output</u>
2	32 kg		Engine output pulley	
3			Drive pulley of belt (R04)	
4			Drive pulley of belt (R05)	
5			Drive pulley of belt (R03)	
6			Before installing, clean conical joint (6) to be free of grease, rust and paint.	
7, 8	550 Nm		Castle nut (7) thread M36 x 1.5 DIN 935: <ul style="list-style-type: none"> - Tighten nut (7) to 550 Nm . - Turn nut (7) further until cotter pin (8) can be inserted. - Secure nut (7) with cotter pin (8). 	
Tightening torques not specified, see "Introduction / Tightening torques" chapter				

Removal

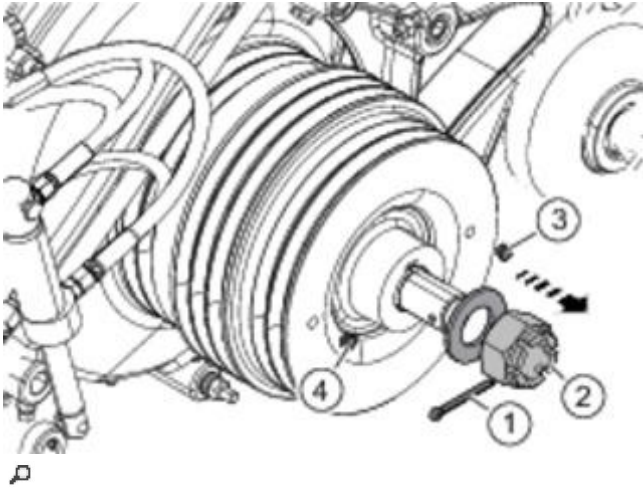
- ▶ Swing out the grain tank unloading tube.
See the Operator's Manual of the machine in question.



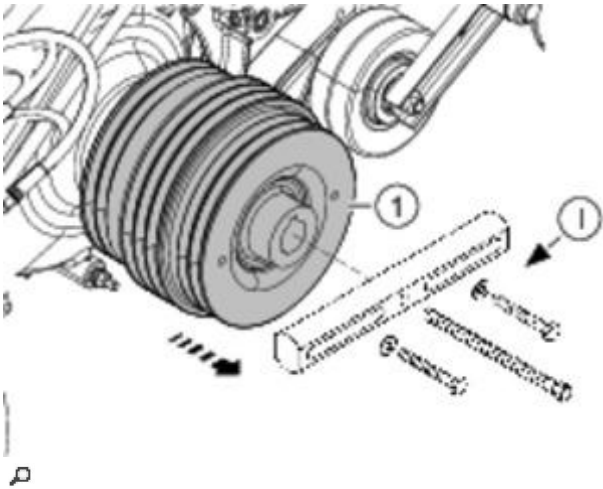
- ▶ Remove plates (1) and (2).



- ▶ Remove belts (R04), (R05) and (R03).
See the Operator's Manual of the machine in question.
- ▶ Remove the belt guide (1).
- ▶ Remove the jockey pulley of belt (R04).
Jockey pulley of belt (R04)



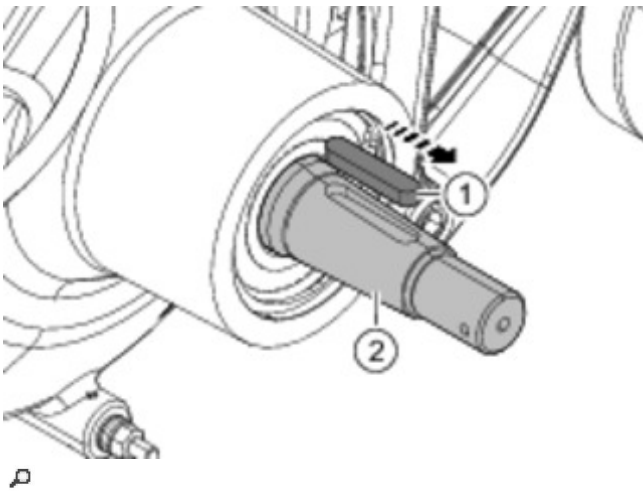
- ▶ Remove cotter pin (1).
- ▶ Unscrew the castle nut (2).
- ▶ Remove plugs (3) and (4).



Use special tool (l) (puller bridge).

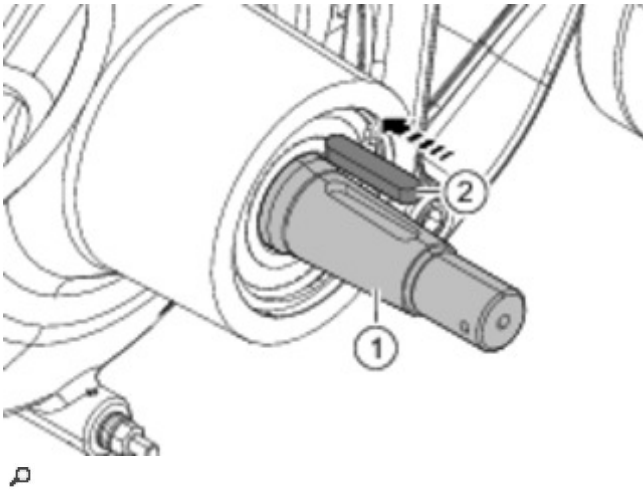
Engine output pulley.

- ▶ Pull off pulley (1) with special tool (l).
- ▶ Remove pulley (1).
Weight of pulley (1):
Engine output pulley.

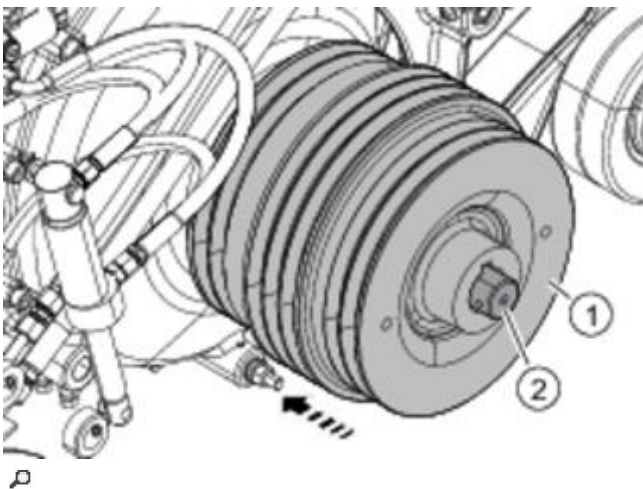


- ▶ Remove parallel key (1) from shaft (2).

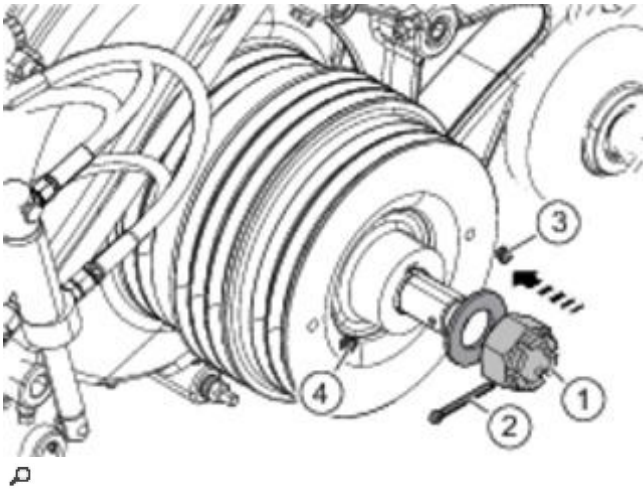
Installation



- ▶ Clean cone connection of shaft (1) and ensure it is free of rust and grease.
- ▶ Insert parallel key (2) into shaft (1).



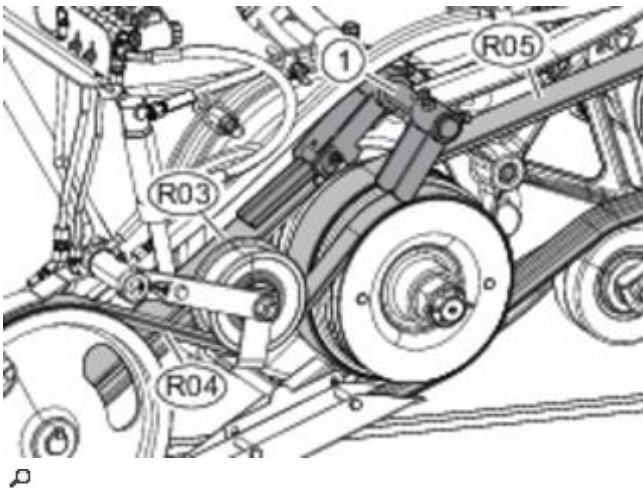
- ▶ Slide pulley (1) onto shaft (2).
Weight of pulley (1):
Engine output pulley.



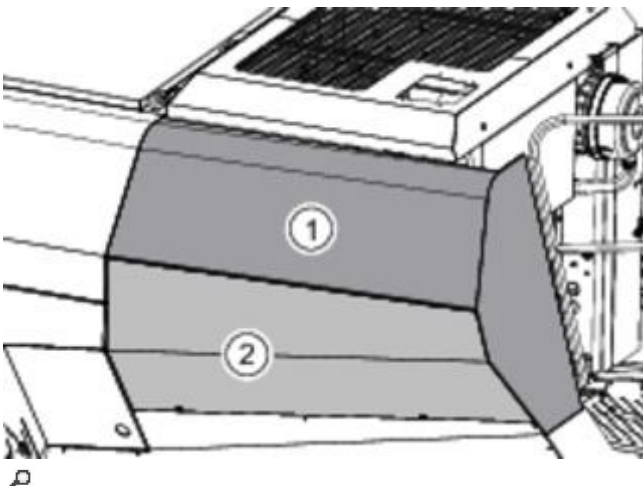
Observe the technical specifications!

Engine output pulley.

- ▶ Tighten slotted nut (1) and continue turning until cotter pin (2) can be inserted.
- ▶ Install plugs (3) and (4).
- ▶ Install jockey pulley of belt (R04).
Jockey pulley of belt (R04)



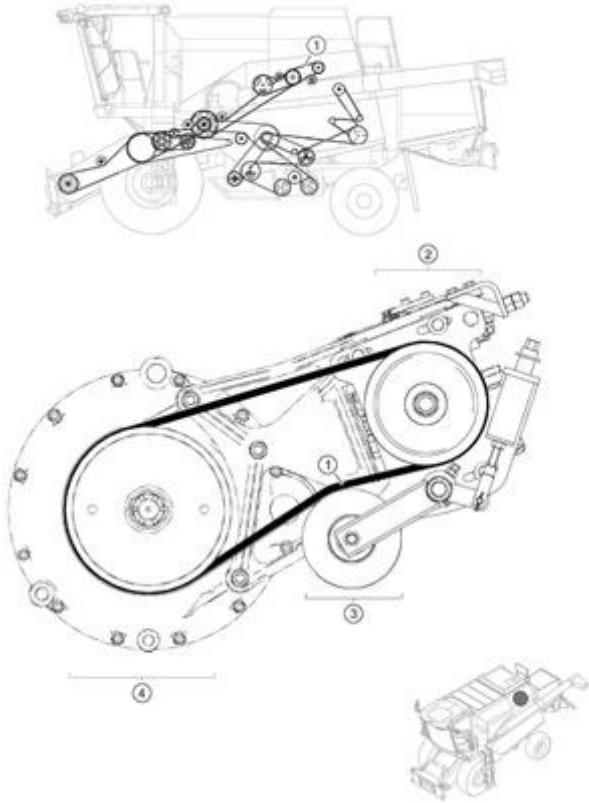
- ▶ Install and adjust belts (R04), (R05) and (R03).
- ▶ Install and adjust belt guide (1).
See the Operator's Manual of the machine in question.



- ▶ Install plates (1) and (2).
- ▶ Check the function.

Belt (R05)

Technical specifications



D

	Value	CCN	Remark / designation	
1			Belt (R05) See the Operator's Manual of the machine in question.	
2			Driven pulley of belt (R05)	<u>Driven pulley of belt (R05).</u>
3			Jockey pulley of belt (R05)	<u>Jockey pulley of belt (R05).</u>
4			Engine output pulley	<u>Engine output pulley.</u>
Tightening torques not specified, see "Introduction / Tightening torques" chapter				

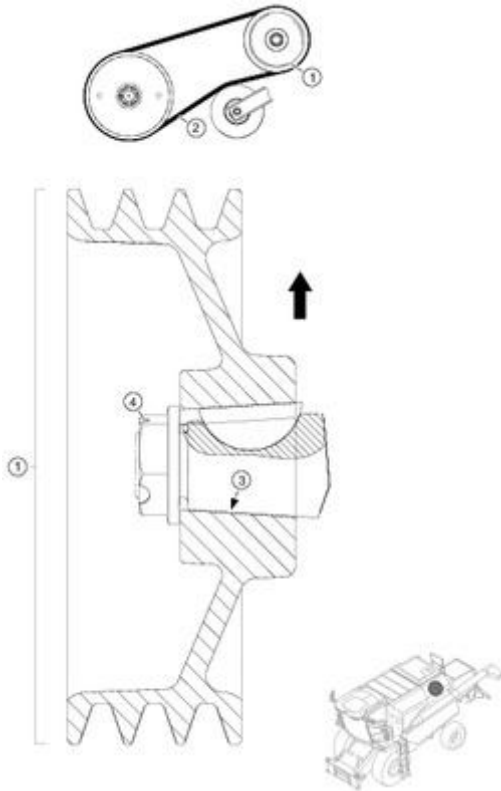
Drive pulley of belt (R05)

Refer to: Engine output pulley.

Engine output pulley.

Driven pulley of belt (R05)

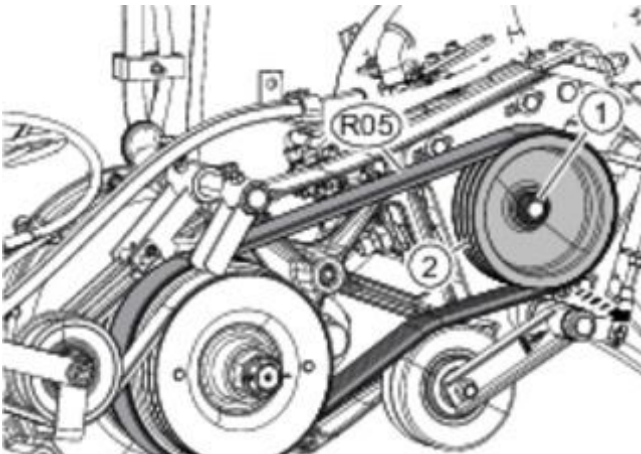
Technical specifications



D

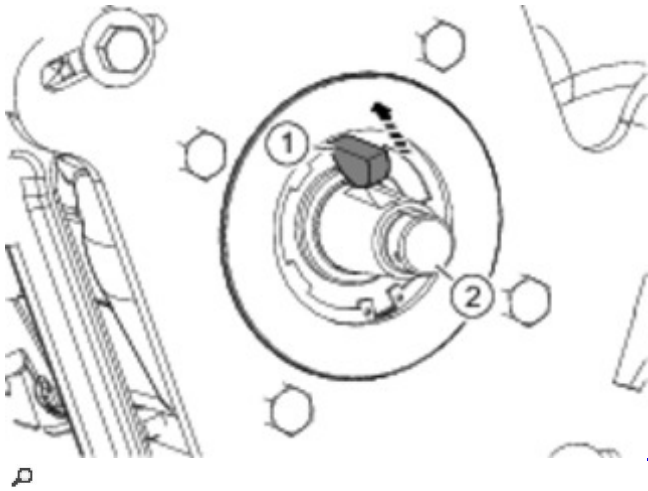
	Value	CCN	Remark / designation	
1			Driven pulley of belt (R05)	
2			Belt (R05) See the Operator's Manual of the machine in question.	
3			Before installing, clean conical joint (3) to be free of grease, rust and paint.	
4	350+25 Nm		Use new self-locking nut (4).	
Tightening torques not specified, see "Introduction / Tightening torques" chapter				

Removal



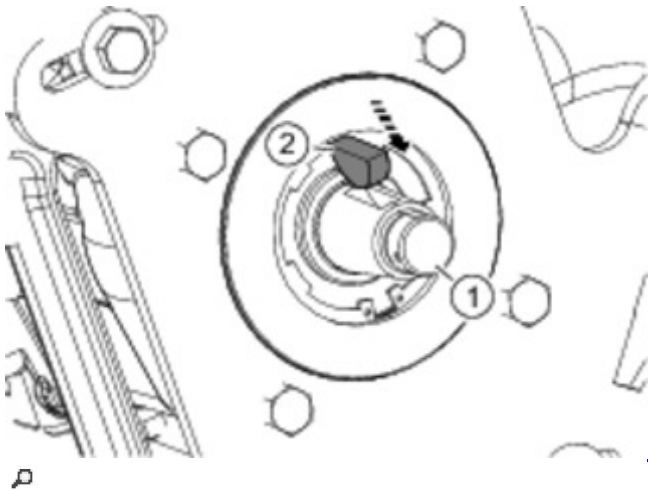
D

- ▶ Slacken off nut (1) and unscrew it be **around** two turns.
- ▶ Remove belt (R05) from pulley (2).
- ▶ See the Operator's Manual of the machine in question.
- ▶ Pre-load pulley (2) with a puller.
- ▶ Slacken off and remove pulley (2) from the shaft with a plastic-tip hammer.

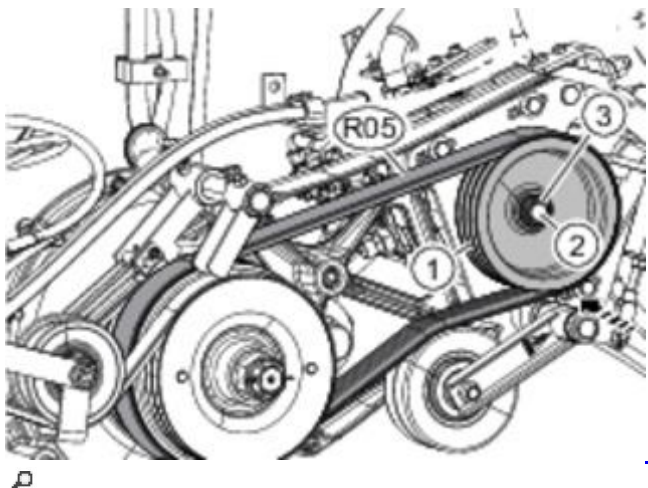


- ▶ Remove woodruff key (1) from shaft (2).

Installation



- ▶ Clean cone connection of shaft (1) and ensure it is free of rust and grease.
- ▶ Insert woodruff key (2) into shaft (1).





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Observe the technical specifications!

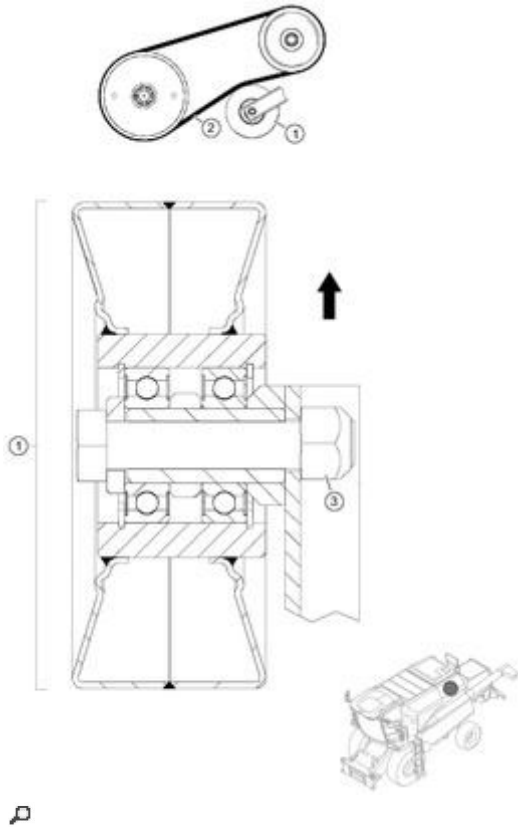
Driven pulley of belt (R05)

- ▶ Slide pulley (1) onto shaft (2).
- ▶ Screw on **new** self-locking nut (3) and pre-stress slightly.
- ▶ Install and adjust belt (R05).
See the Operator's Manual of the machine in question.
- ▶ Screw on the self-locking nut (3) tightly.

- ▶ Check the function.

Jockey pulley of belt (R05)

Technical specifications



	Value	CCN	Remark / designation	
1			Jockey pulley of belt (R05)	
2			Belt (R05) See the Operator's Manual of the machine in question.	
3	130 Nm			
Tightening torques not specified, see "Introduction / Tightening torques" chapter				

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