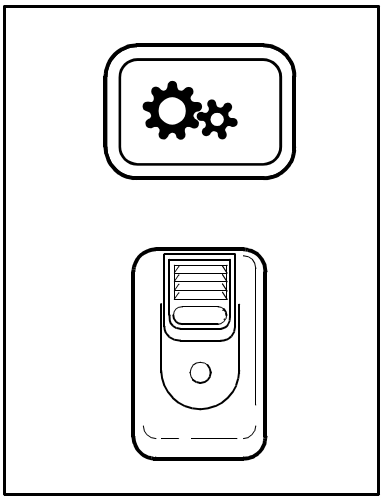
SCANIA

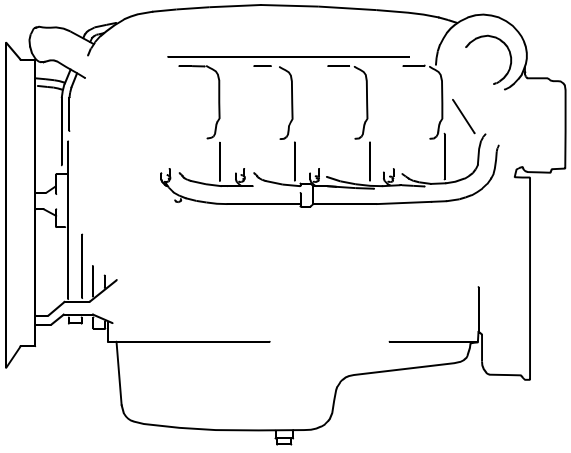
01:00-01

Issue 2 **en**

Power take-off on engines

Work Description





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Contents

Power take-off on 9 litre engines, ED90

Fitting and removal

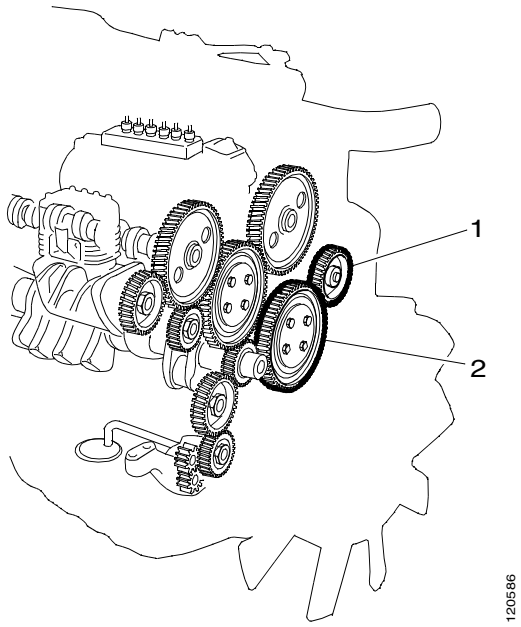
In order to install a power take-off on a 9 litre engine, the engine must be equipped with the following:

1 A timing gear casing designed for power take-off.

2 An intermediate gear that drives the power take-off gear, see figure.

Information about renewal of the timing gear casing and fitting an intermediate gear can be found in the Work Description for the 9 litre engine, 01:01-02.

Remove and fit power take-off according to the figures on the next page.



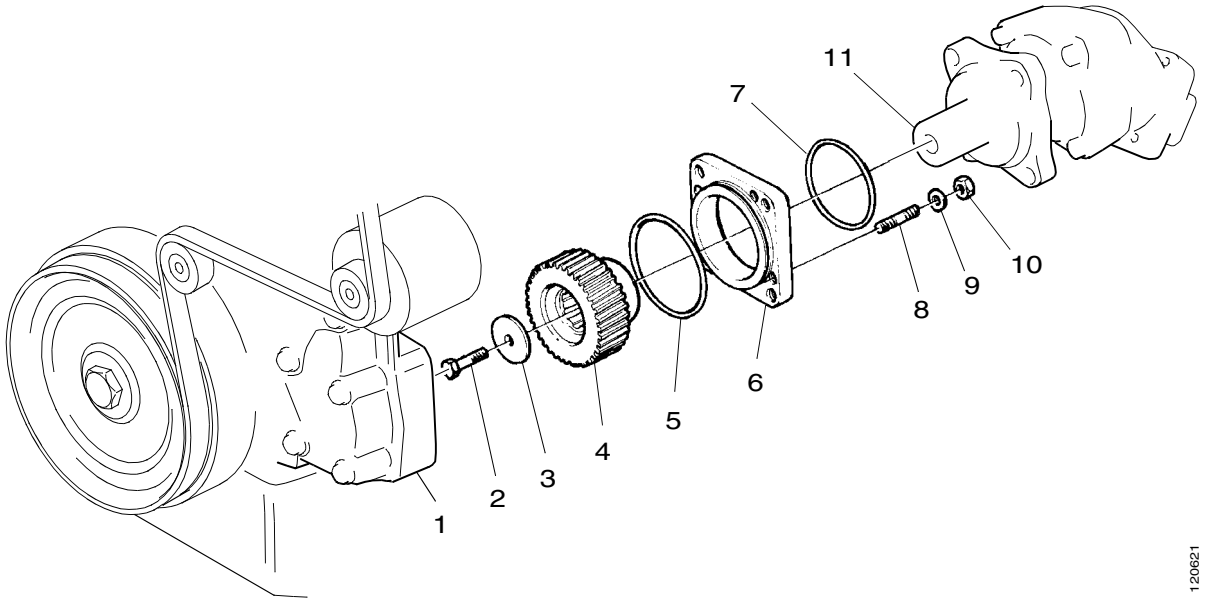
The transmission on a 9 litre engine.

1 Power take-off gear

2 Intermediate gear

Power take-off without bearing bushing (DIN type ZF)

When fitting the power take-off, also fit new O-rings.

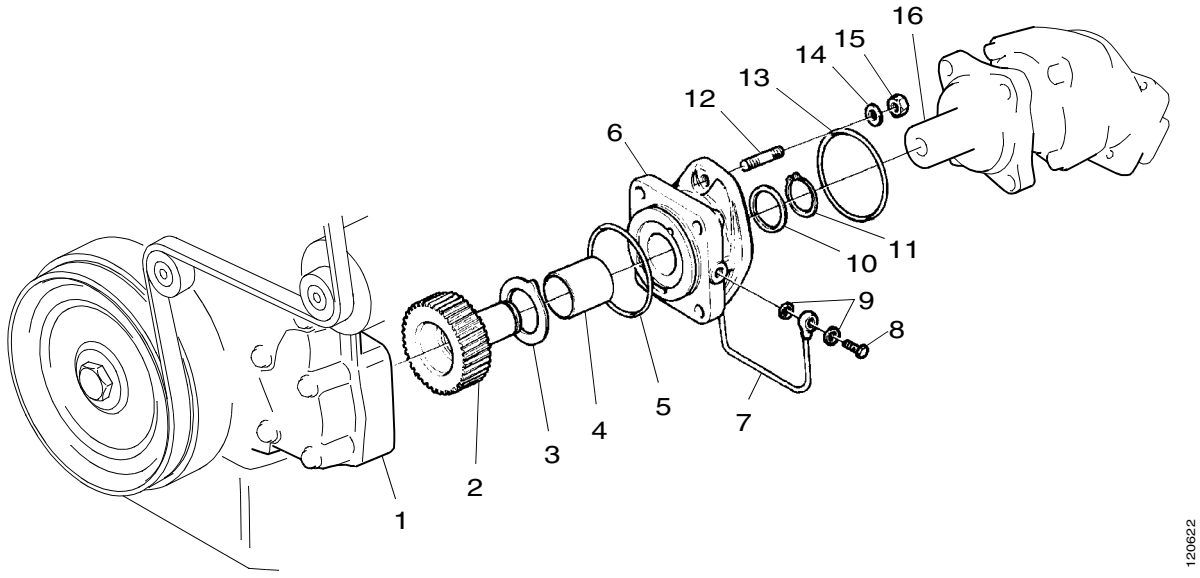


1 Timing gear casing
2 Hexagon screw
3 Washer
4 Gear
5 O-ring
6 Flange
7 O-ring
8 Stud
9 Washer
10 Hexagon nut
11 Pump (can have different designs)

Power take-off with bearing bushing (SAE type B)

Carry out the following steps when fitting the power take-off:

- Fit new O-rings.
- Lubricate the inside of the bearing bushing with engine oil.



1 Timing gear casing
2 Gear
3 O-ring
4 Bearing bushing
5 O-ring
6 Bearing housing
7 Pipe
8 Banjo screw
9 Gasket
10 Washer
11 Retaining ring
12 Stud
13 O-ring
14 Washer
15 Hexagon nut
16 Pump (can have different designs)

Power take-off on 11 and 12 litre engines, ED120

Fitting and removal

In order to install a power take-off on an 11 or 12 litre engine, the engine must be equipped with an intermediate gear that drives the power take-off gear, see figures.

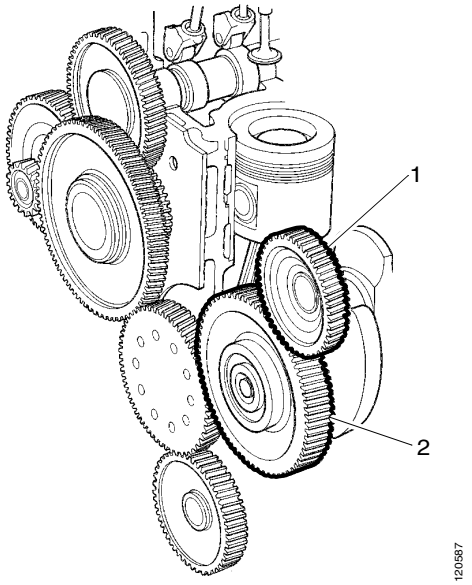
The intermediate gear is always fitted on engines with turbocompound. For engines without turbocompound the following applies.

The intermediate gear is always fitted on engines with injection pump.

On engines with unit injector, the intermediate gear is only fitted if the engine is prepared for power take-off.

Information about fitting the intermediate gear can be found in the Work Description for the 11 and 12 litre engine, 01:03-02.

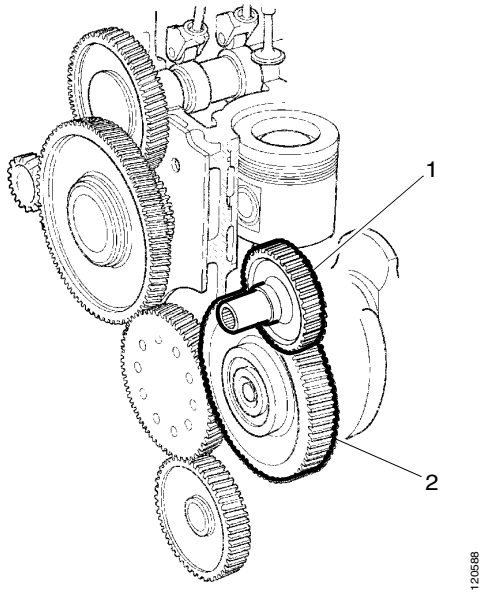
Remove and fit power take-off according to the figures on the next page.



The transmission on 11 and 12 litre engines with injection pump.

1 *Power take-off gear (type DIN, this type can also be used on engines with unit injectors)*

2 *Intermediate gear*



The transmission on 11 and 12 litre engines with unit injector.

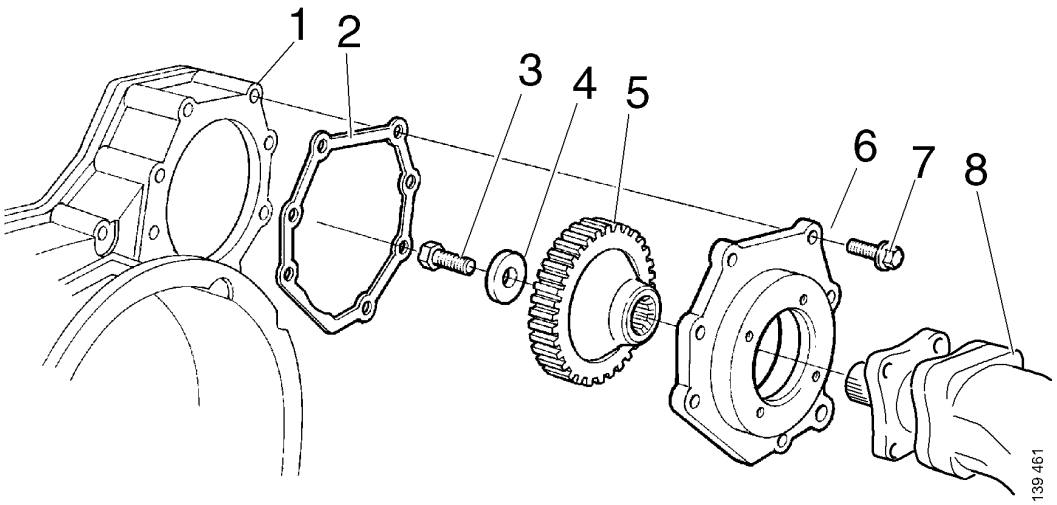
1 *Power take-off gear (type SAE, this type can also be used on engines with injection pump)*

2 *Intermediate gear*

Power take-off without bearing (DIN type ZF)

The picture applies to engines manufactured before October 2000.

The tightening torque for the hexagon screw (3) is 114 Nm.

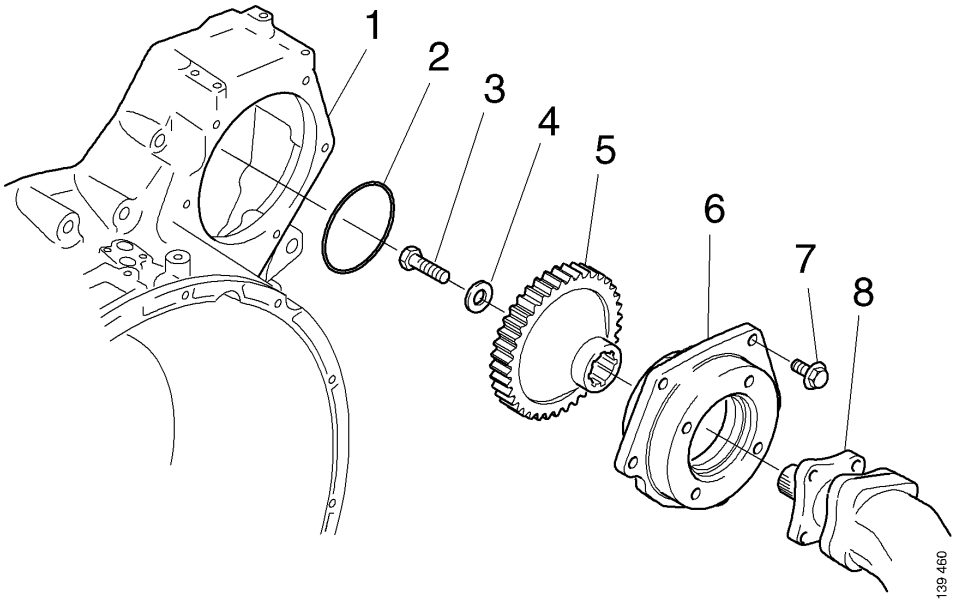


1 Timing gear casing
2 Gasket
3 Hexagon screw (114 Nm)
4 Washer
5 Gear
6 Flange
7 Flange screw
8 Pump (can have different designs)

The picture applies to engines manufactured after October 2000.

The tightening torque for the hexagon screw (3) is 114 Nm.

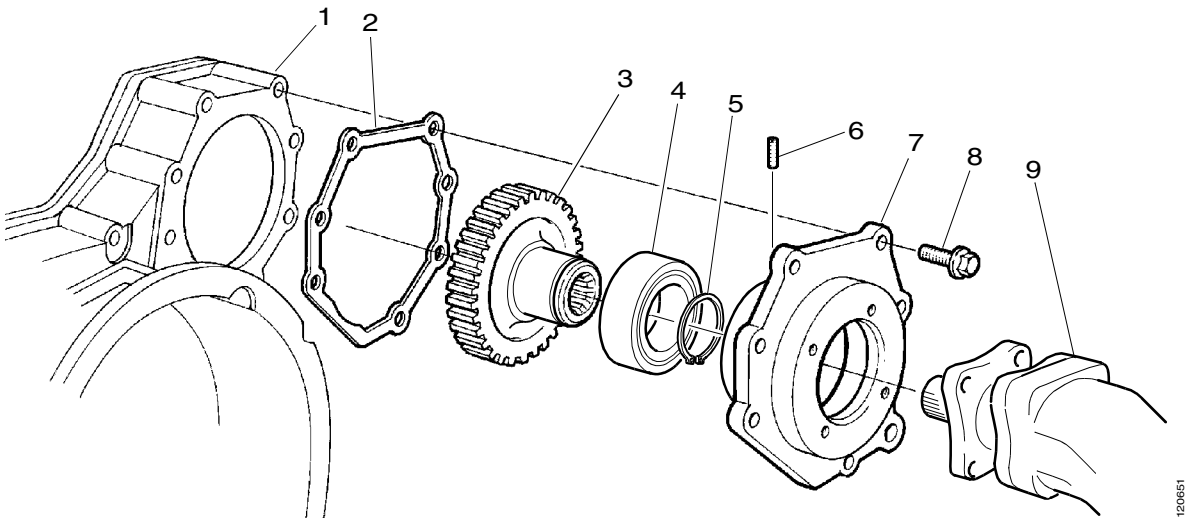
When fitting a power take-off, also fit new O-rings.



1 Timing gear casing
2 O-ring
3 Hexagon screw (114 Nm)
4 Washer
5 Gear
6 Flange
7 Flange screw
8 Pump (can have different designs)

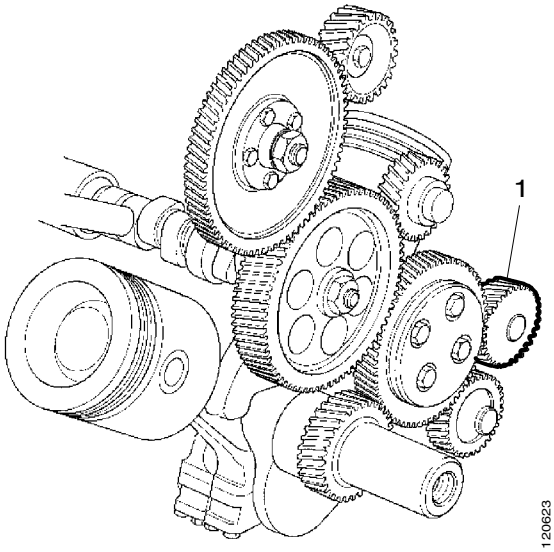
Power take-off with bearing (SAE type B)

When fitting a power take-off, also fit a new gasket.



1 Timing gear casing	4 Roller bearing	7 Bearing housing
2 Gasket	5 Retaining ring	8 Flange screw
3 Gear	6 Set screw	9 Pump (can have different designs)

Power take-off on 14 litre engines, ED140



The transmission on a 14 litre engine.

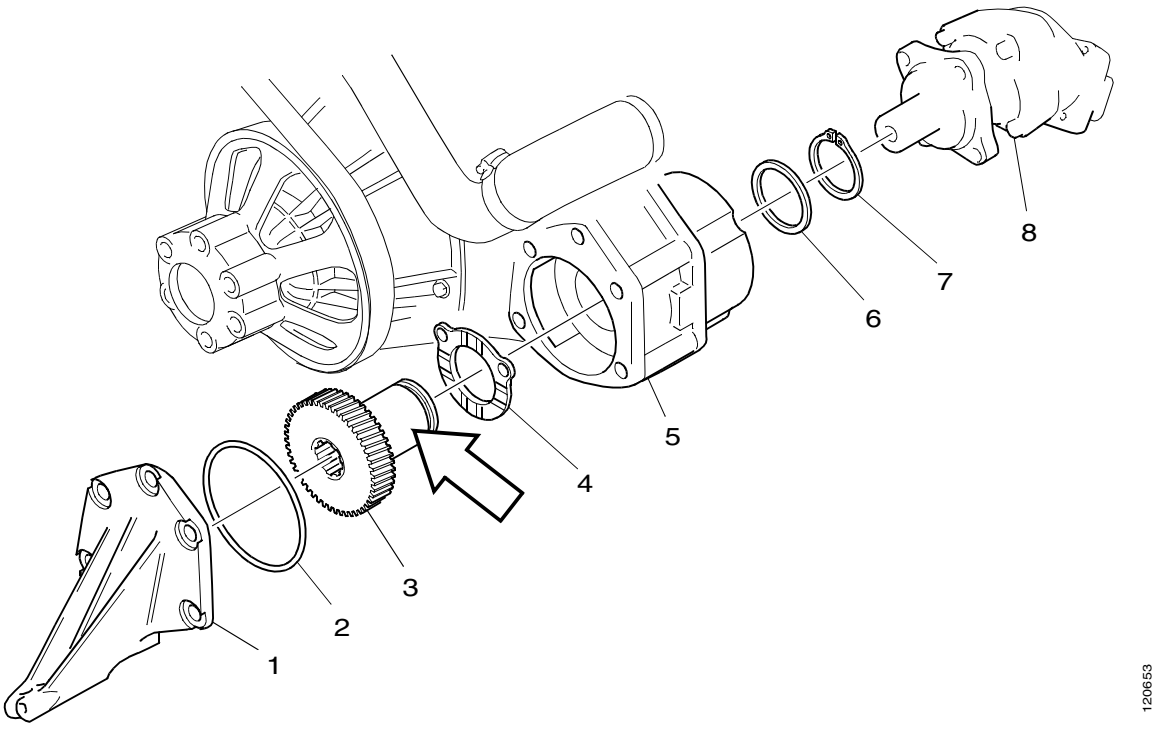
1 Power take-off gear

Fitting and removal

Remove and fit a power take-off according to the figure below.

Carry out the following steps when fitting a power take-off:

- Fit a new O-ring.
- Lubricate the part of the gear as indicated in the figure. Lubricate with engine oil.



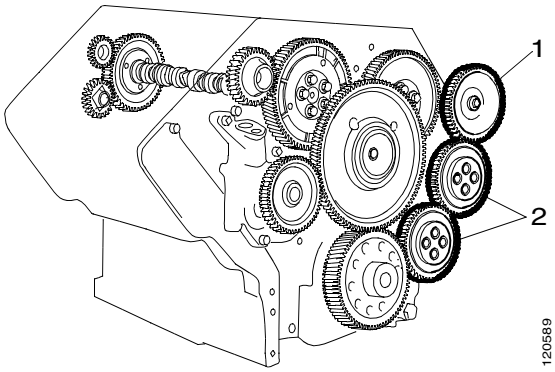
1 Engine bracket
2 O-ring
3 Gear
4 Washer
5 Timing gear casing
6 Washer
7 Retaining ring
8 Pump (can have different designs)

Power take-off on 16 litre engines, ED160

In order to install a power take-off on a 16 litre engine, the engine must be equipped with the following:

- Two intermediate gears that drive the power take-off gear, see figure.

Information about fitting the intermediate gear can be found in the Work Description for the 16 litre engine, 01:06-01.



The transmission on a 16 litre engine.

1 Power take-off gear

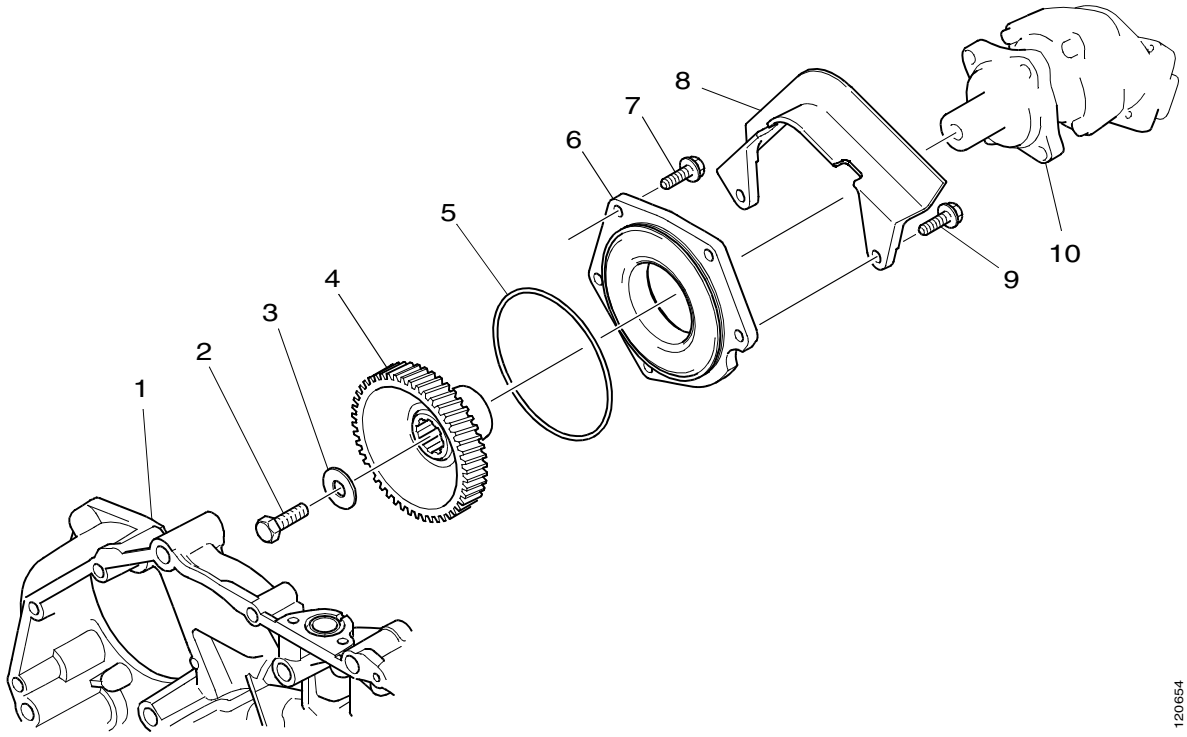
2 Intermediate gears

Fitting and removal

Remove and fit a power take-off according to the figure below.

When fitting a power take-off, also fit new O-rings.

The tightening torque for the hexagon screw (2) is 114 Nm.



1 Timing gear casing

2 Hexagon screw (114 Nm)

3 Washer

4 Gear

5 O-ring

6 Flange

7 Flange screw

8 Heat shield

9 Flange screw

10 Pump (can have different designs)