



Disassembly of the forward drive clutch assembly

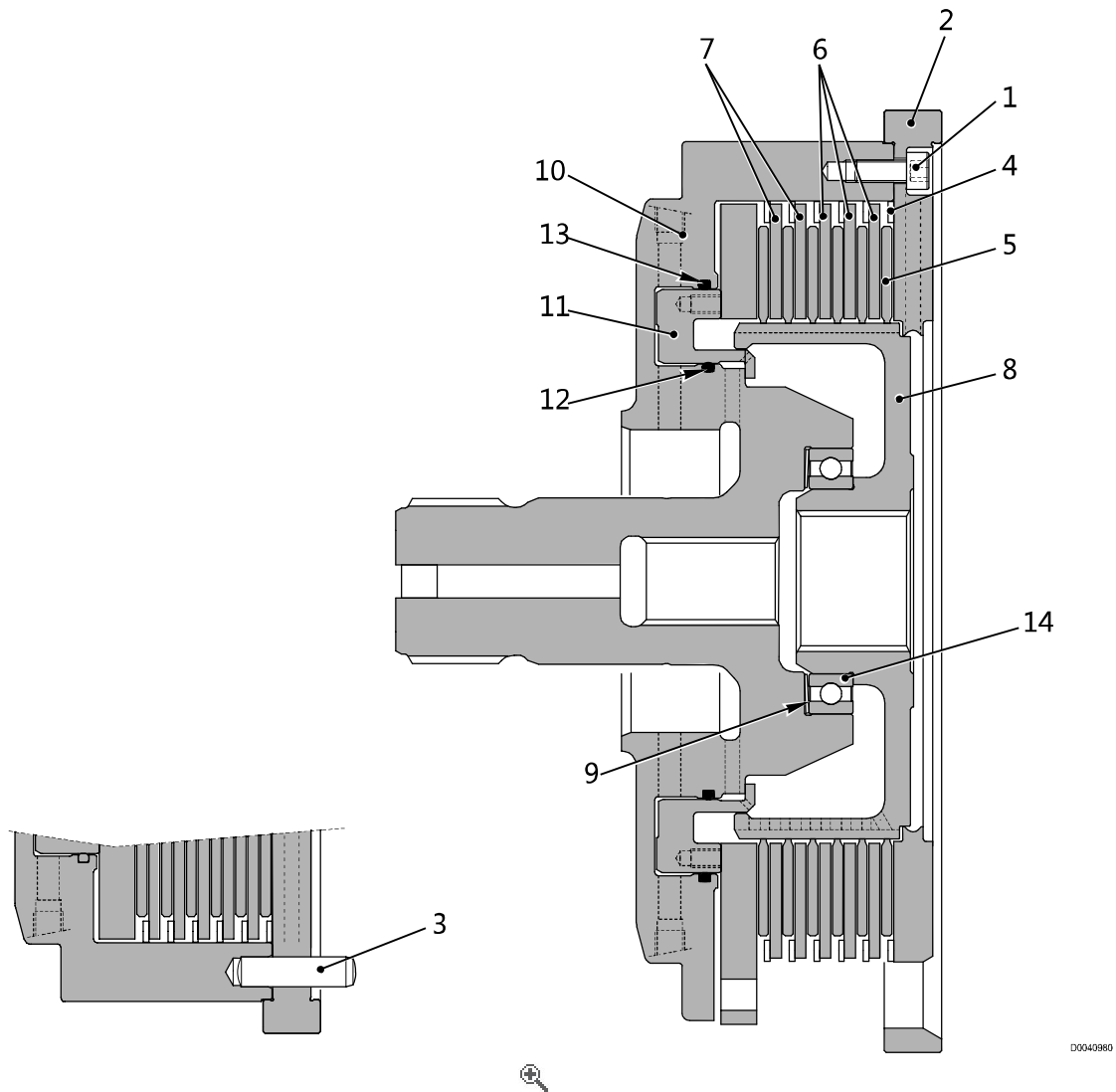


Fig. Forward drive clutch assembly

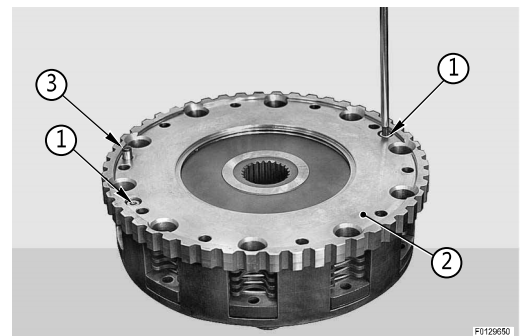
Disassembly

Remove the two screws (1) and remove disc (2).



IMPORTANT

Mark the hole in which pin (3) is inserted.



1.

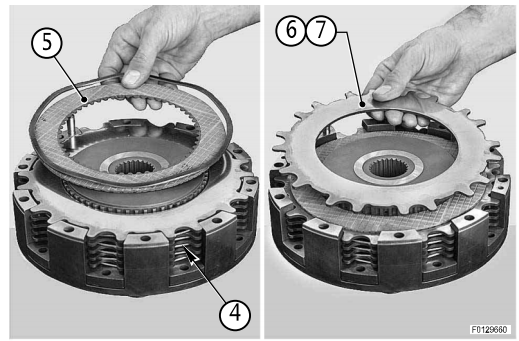
Remove the clutch pack assembly, composed of four corrugated springs (4), four friction discs (5), three steel discs (6) 3 mm thick and one steel disc (7) 6.5 mm thick.



IMPORTANT

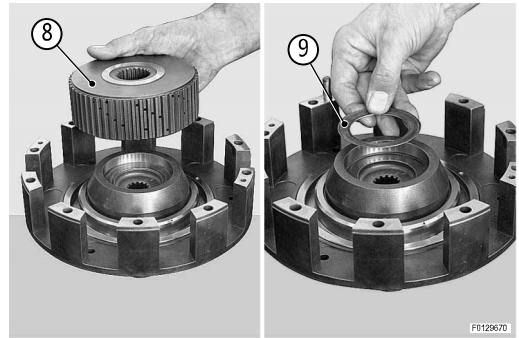
Take care not to alter the assembly sequence of the friction

and steel discs.



2.

Remove hub (8) and recover Belleville spring (9).



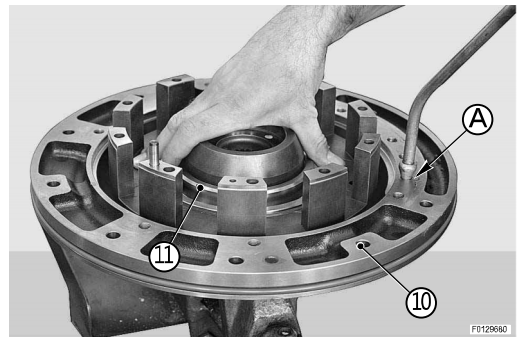
3.

Blow compressed air at low pressure through the hole in the side of clutch housing (10) to expel piston (11).



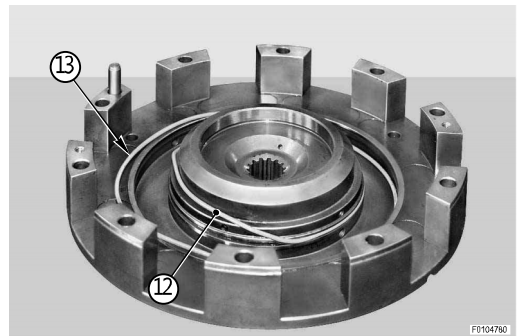
IMPORTANT

Restrain piston (11) as it could be expelled at high speed and thus damaged.



4.

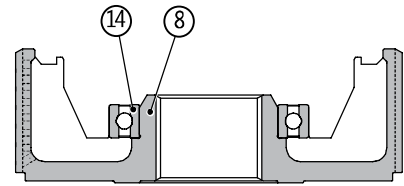
Check the condition of O-rings (12) and (13) and renew them if necessary.



5.

Only if necessary

Remove bearing (14) from hub (8).



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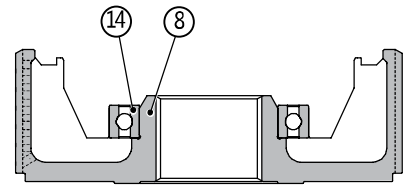


6.

Assembly

Only if removed

Using a suitable drift, fit bearing (14) on hub (8).



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1.

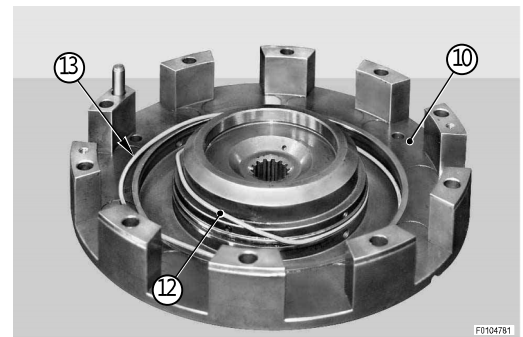
Fit O-rings (12) and (13) in clutch housing (10).



IMPORTANT

To facilitate installation of O-ring (13), stretch it slightly at various points all around the circumference so that it is held in place in its seating.

- o O-ring: hydraulic oil.



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2.

Fit piston (11) in clutch housing (10) and make sure it is properly seated.



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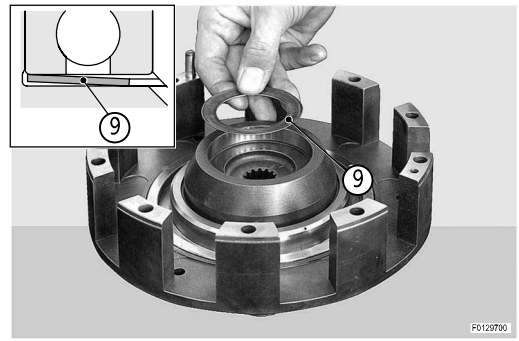
3.

Position Belleville spring (9) in the clutch housing.



IMPORTANT

Take care to install Belleville spring (9) the right way round.

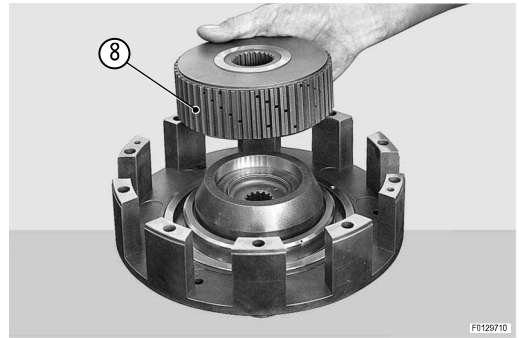


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4.

Fit hub (8) and make sure bearing (14) is firmly seated in Belleville spring (9).




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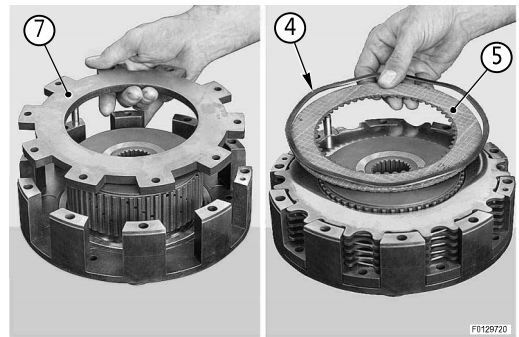
5.

Fit first steel disc (7), friction disc (5) and corrugated spring (4).



IMPORTANT
Make sure that steel disc (7) is 6.5 mm thick.

- o Friction disc: hydraulic fluid



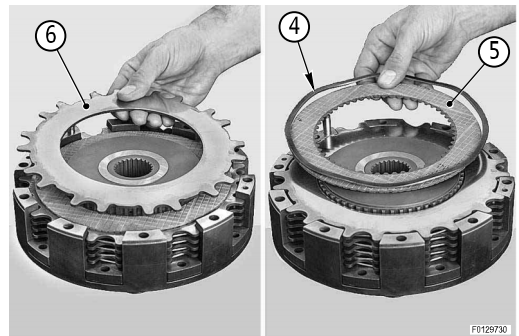
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6.

Complete the clutch pack by fitting steel disc (6), friction disc (5) and corrugated spring (4) in sequence.

- o Friction discs: hydraulic oil




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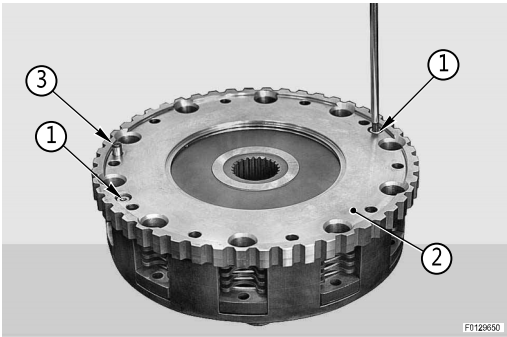


7.

Fit disc (2) and secure it in position with screws (1).



IMPORTANT
Orient the disc so as to insert pin (3) in the hole marked during disassembly.



8.



Disassembly of the reverse drive clutch assembly

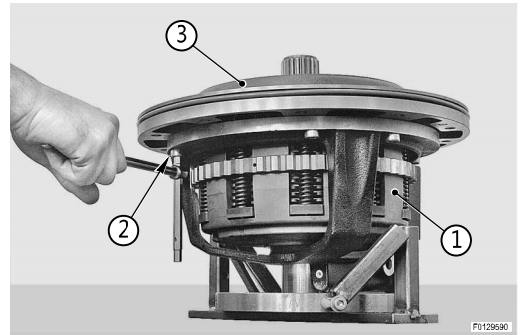
Disassembly

Position shuttle assembly (1) on a suitable stand and remove the seven screws (2).



IMPORTANT

Mark flange (3) and the support to facilitate assembly operations.

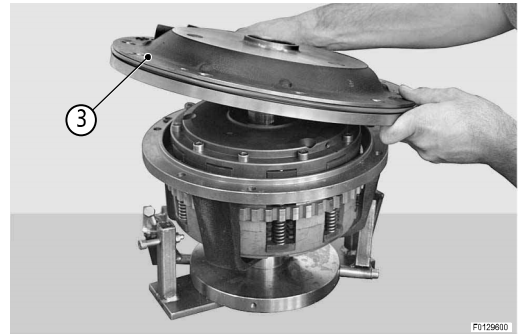


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1.

Remove flange assembly (3).



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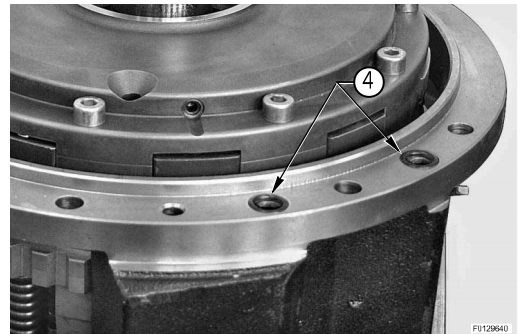
2.

Remove O-rings (4).



IMPORTANT

Renew the O-rings on reassembly.



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3.

Remove the ten screws (5).



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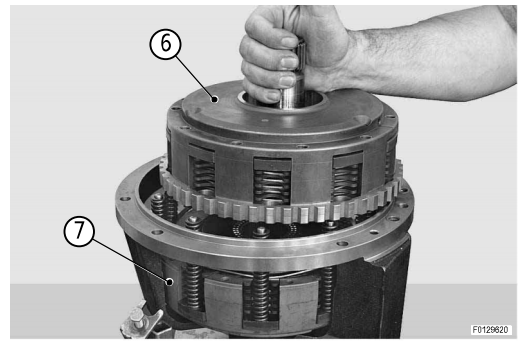
4.

Remove the forward drive clutch assembly (6).



IMPORTANT

Mark clutch assemblies (6) and (7) to facilitate reassembly.

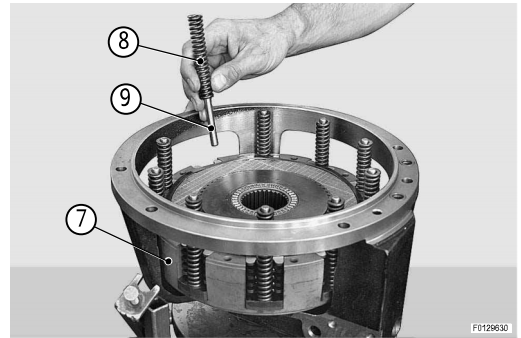


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5.

Recover springs (8) and pins (9) from reverse drive clutch assembly (7).



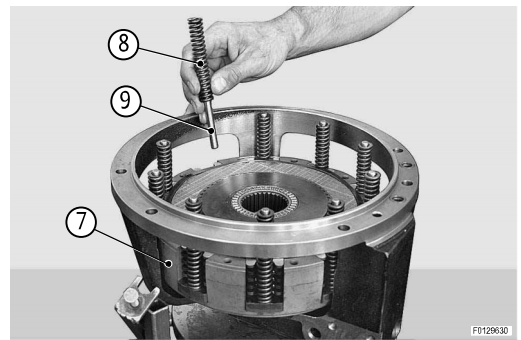
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6.

Assembly

Locate springs (8) and pins (9) in clutch assembly (7).

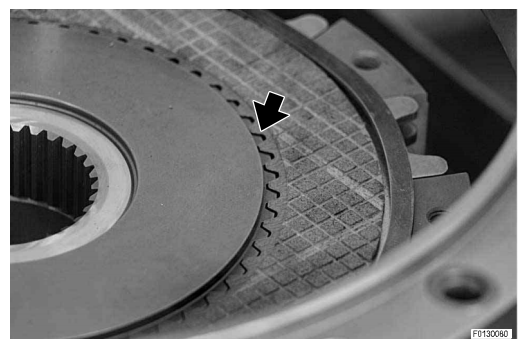


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1.

Check that the last friction plate to be installed is correctly engaged on the hub.

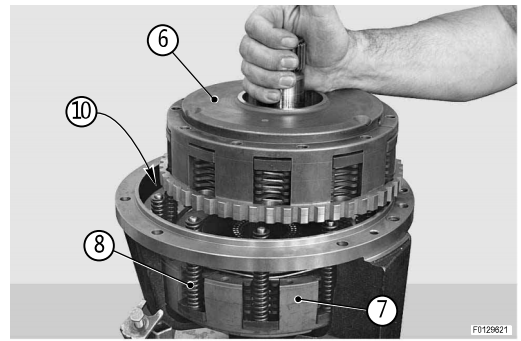


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2.

Locate clutch assembly (6), making sure that springs (8) are positioned in the holes and that locating dowel (10) is aligned with the corresponding hole in clutch housing (7).



3.

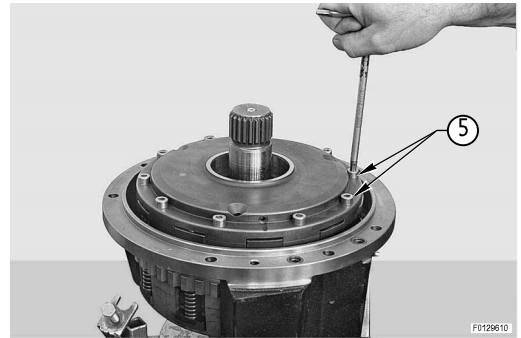
Tighten screws (5).

- Screws: 20 Nm (29.5 lb.ft.)
- Screws: Loctite 242



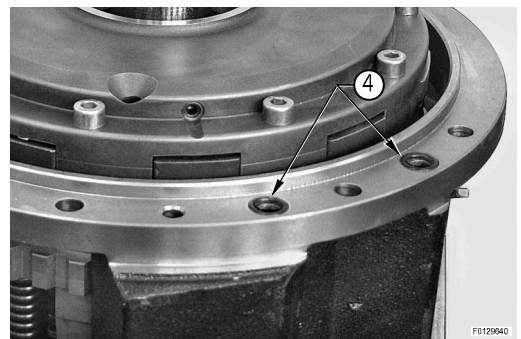
IMPORTANT

Tighten the screws in an alternate crosswise sequence.



4.

Fit new O-rings (4).



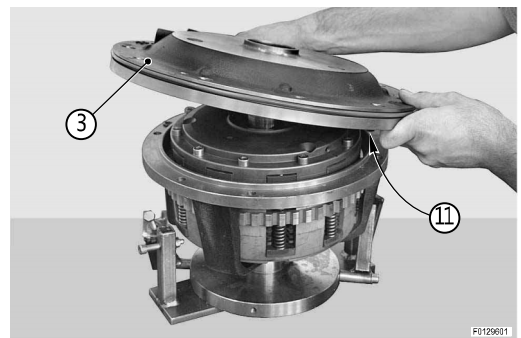
5.

Locate flange (3), taking care to align the marks made during disassembly, or align locating dowel (11).



IMPORTANT

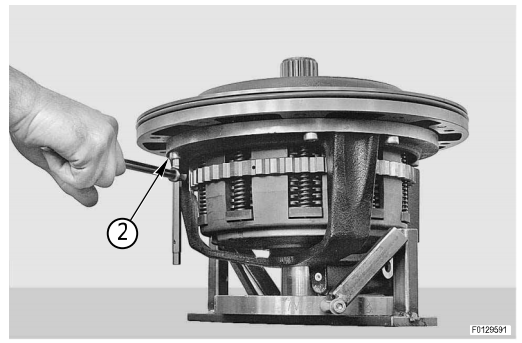
Lubricate the lip of the oil seal with hydraulic oil.



6.

Tighten screws (2).

- Screws: 40 Nm (29.5 lb.ft.)
- Screws: Loctite 242

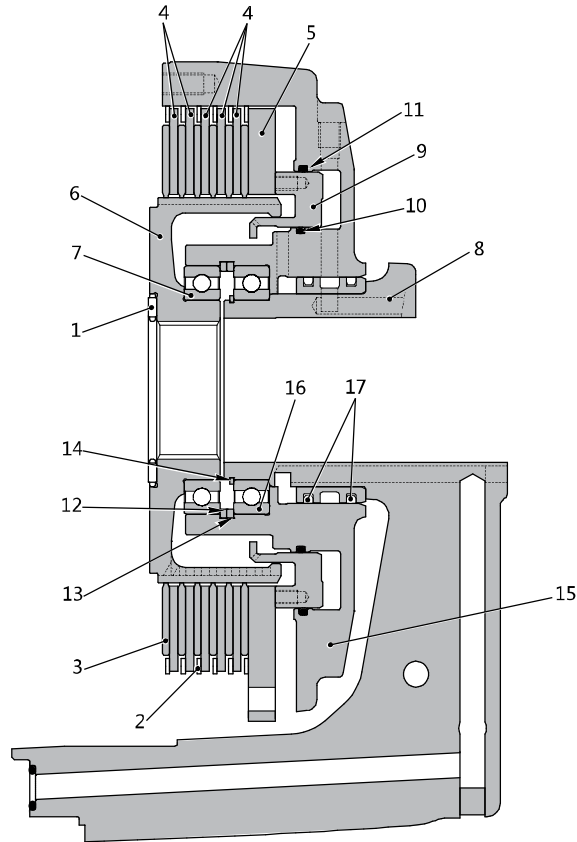


7.

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Disassembly of the reverse drive clutch assembly

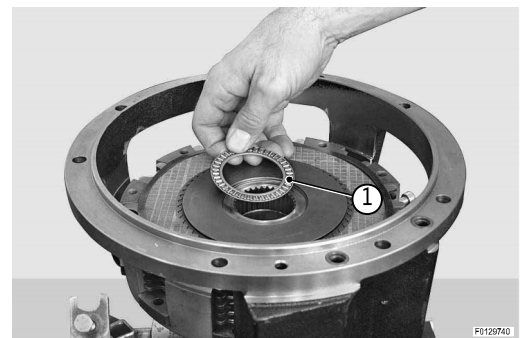


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Fig. Reverse drive clutch assembly

Disassembly

Remove roller cage (1).



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1.

Remove the clutch pack assembly, composed of four corrugated springs (2), four friction discs (3), three steel discs (4) 3 mm thick and one steel disc (5) 6.5 mm thick.



IMPORTANT

Take care not to alter the assembly sequence of the friction

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