

This TSI Service Bulletin and others in Groups 21 and 33 replace TSI Service Manual 210-600, "Basic Engine, D12, D12A, D12B, D12C" (8.2000), publication no. PV776-TSP142853.

Date

11.2001

Group

**215**

No.

**007**

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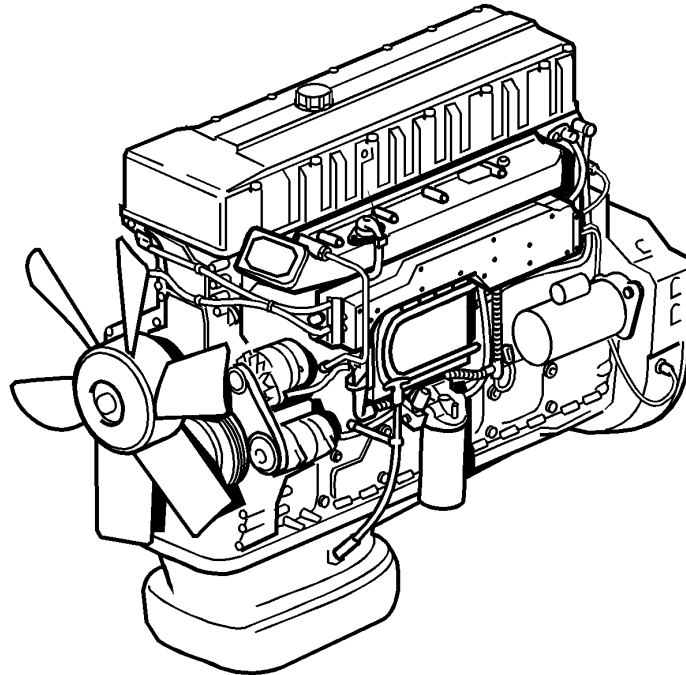
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Idler Gear Assembly

D12, D12A, D12B

## Idler Gear Assembly



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Fig. 1: VOLVO D12C Engine

This information covers procedures for overhauling the idler gear assembly on VOLVO D12, D12A, and D12B engines.

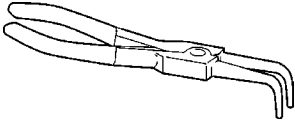
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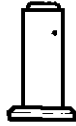
# Tools

## Special Tools

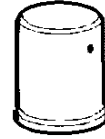
The following special tools are used to replace or repair components. The tools can be ordered from Volvo; please use the specified part number when ordering.



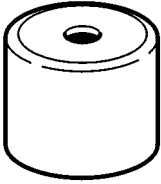
**9988183**  
Snap Ring Pliers



**9992267**  
Puller



**9992584**  
Hollow Drift



**9998244**  
Hollow Drift

# Service Procedures

## 2153-04-05-01 Idler Gear Assembly, Overhaul

(Unit removed.)

### WARNING

Always wear appropriate eye protection to prevent the risk of eye injury due to contact with debris.

*Special tools: 9988183, 9992267, 9992584, 9998244*

1  
Clamp the idler gear assembly securely in a vise.

### Disassembly

2

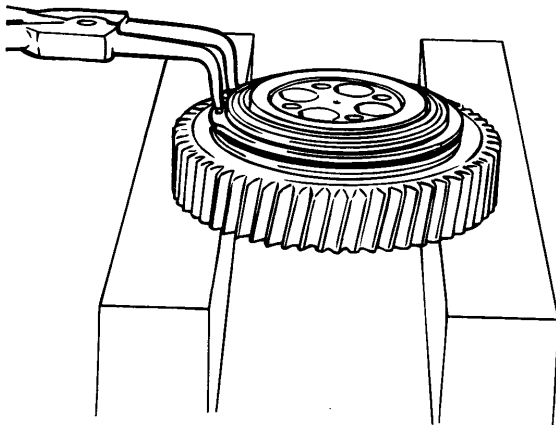


Fig. 2: Removing the snap ring

Using snap ring pliers 9988183, remove the snap ring at the front of the idler gears equipped with roller bearings.

3

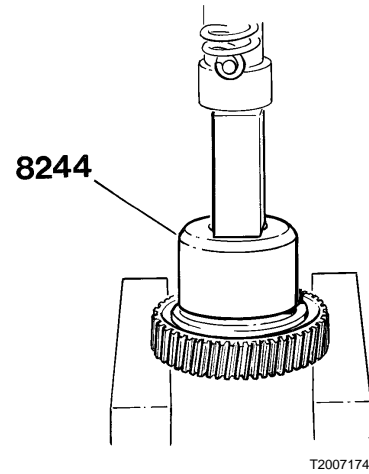


Fig. 3: Removing the shaft and the bearing together

Using tool 9998244, press the shafts and bearings out of both the idler gears.

4

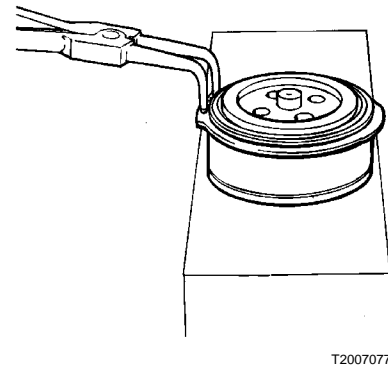
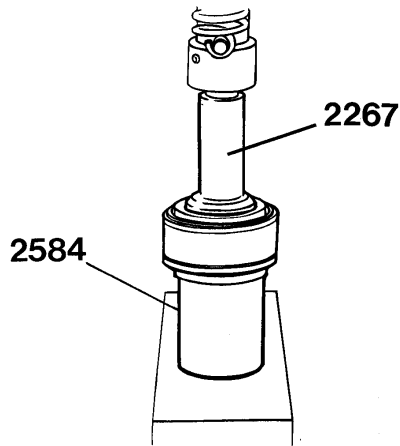


Fig. 4: Removing the snap ring

Using snap ring pliers 9988183, remove the snap rings on the other side of the idler gears.

5



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Fig. 5: Removing the shaft from the bearing

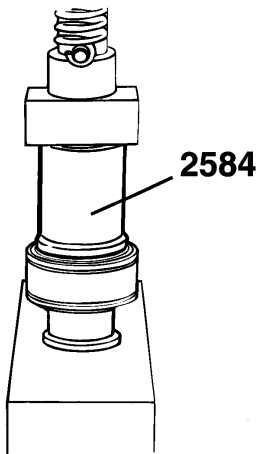
Using puller 9992584 and drift 9992267, press the shafts out of the bearings.

### Assembly

6

Place the shaft and the bearing lock washer into a press.

7



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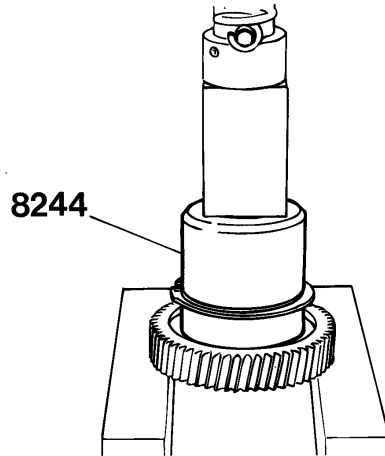
Fig. 6: Installing a new bearing

Using tool 9992584, press the new bearing onto the shaft until it bottoms against the washer.

8

Install the snap ring onto the side of the bearing that faces the timing gear plate.

9



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Fig. 7: Installing the shaft and bearing assembly

Using tool 9998244, carefully press the shaft and the bearing into the idler gear until the bearing lies up against the snap ring.

**Note:** Do not press too hard against the snap ring.

10

Install the other snap ring and remove the washer.