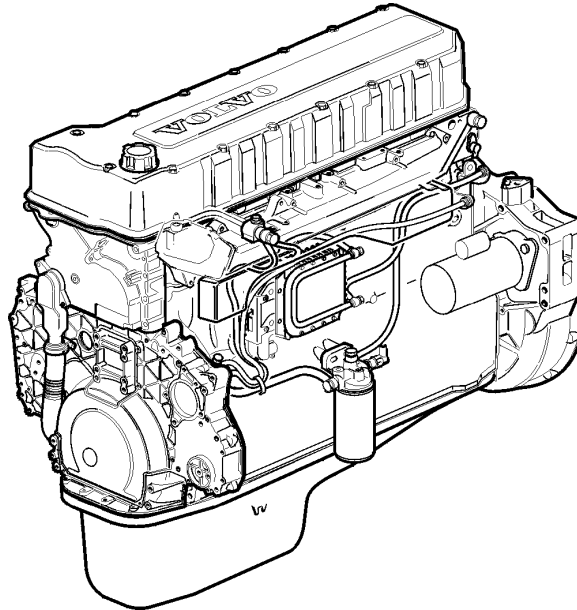


This TSI Service Bulletin and others in Groups 21 and 33 replace TSI Service Manual 210–600, “Basic Engine, D12, D12A, D12B, D12C” (8.2000), publication no. PV776–TSP142853.

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## Timing Gear Plate D12, D12A, D12B, D12C

### Timing Gear Plate



W2003244

Fig. 1: VOLVO D12C Engine

This information covers procedures for servicing the timing gear plate on VOLVO D12, D12A, D12B, and D12C engines.

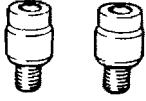
### Contents

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- [“Timing Gear Plate Sealant, Replacement” page 3](#)

# 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.




**9998267**  
Guide Sleeves

# Service Procedures

## 2153-03-05-01 Timing Gear Plate Sealant, Re- placement

(Timing gears, coolant pump, power steering pump, and air compressor removed)


DANGER

Before working on a vehicle, set the parking brakes, place the transmission in neutral, and block the wheels. Failure to do so can result in unexpected vehicle movement and can cause serious personal injury or death.

Special tools: 9998267

1

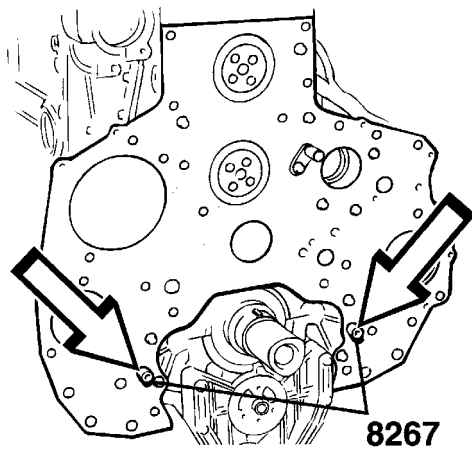


Fig. 2: Guide sleeves for timing gear plate (D12B shown)

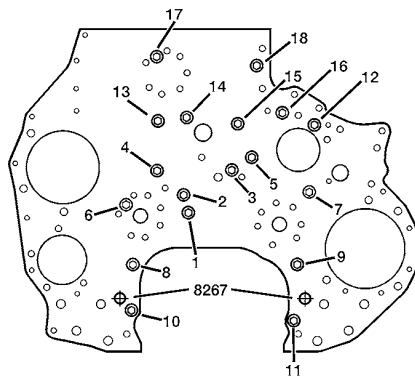


Fig. 3: Guide sleeves for timing gear plate (D12C shown)

Install two guide sleeves 9998267 in the guide holes for the timing gear plate. Remove the bolts (1–18) that hold the plate to the cylinder block. Carefully tap the plate free.

2

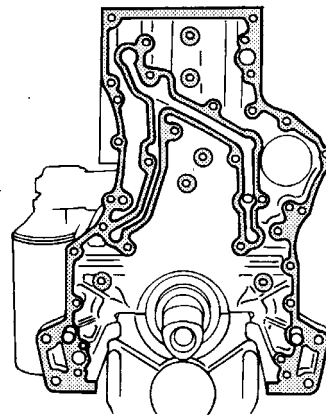


Fig. 4: Contact surfaces (D12C shown)

Carefully clean the contact surfaces of the plate and cylinder block, making sure they are free of oil and/or oil residue.

**Note:** Do not remove the guide sleeves.

3

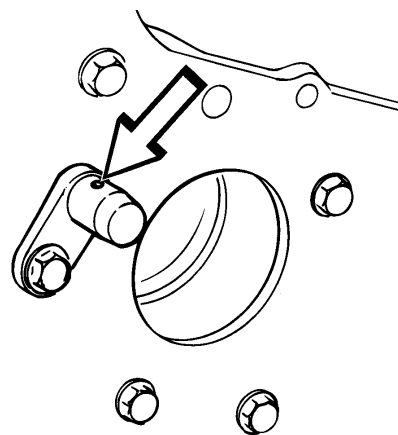


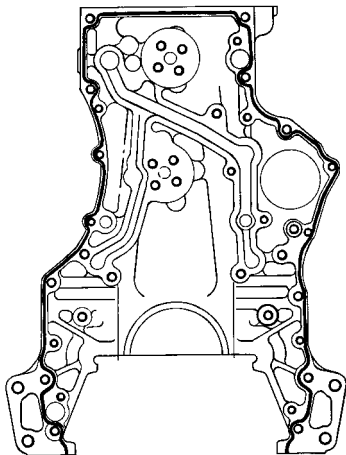
Fig. 5: Lube oil nozzle

**! WARNING**

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

Remove the lube oil nozzle from the timing gear plate and use compressed air to clean the lube holes.

4

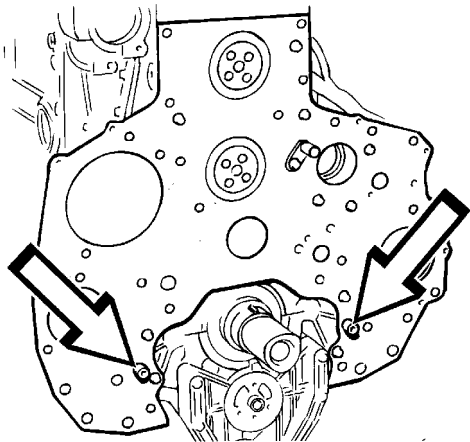


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Fig. 6: Sealant application (D12B shown)

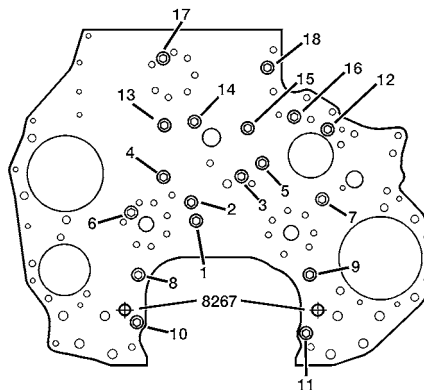
Apply a 2 mm (0.08 in.) bead of Volvo silicone on the cylinder block as shown in accompanying figure.

5



T2006741

Fig. 7: Guide sleeves (D12B shown)



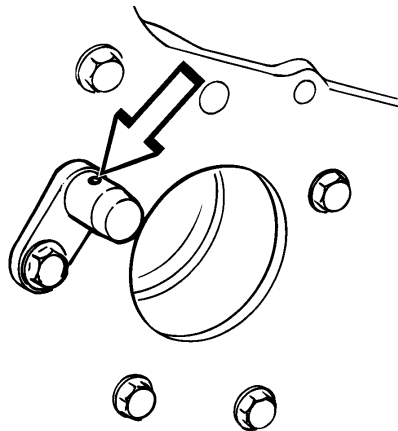
W2003462

Fig. 8: Guide sleeves (D12C shown)

Install the timing gear plate on the cylinder block **within 20 minutes** of sealant application. Torque-tighten bolts to  $33 \pm 4$  Nm ( $24 \pm 3$  ft-lb) following the tightening sequence shown (1-18).

$33 \pm 4$  Nm  
( $24 \pm 3$  ft-lb)

6



T2006740

Fig. 9: Lube oil nozzle

Install the lube oil nozzle.

7

Remove the guide sleeves (9998267). 9998267