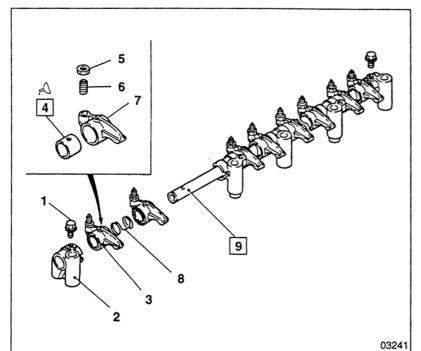
Rocker and Bracket Assembly



Disassembly sequence

- 1 Set bolt
- 2 Rocker shaft bracket
- 3 Rocker assembly
- 4 Rocker bushing
- 5 Lock nut
- 6 Adjusting screw
- 7 Rocker
- 8 Rocker shaft spring
- 9 Rocker shaft

Assembly sequence

Reverse the order of disassembly.

Service standards

Location		Maintenance item	Standard value (Basic diameter in [])	Limit	Remedy
	4, 9	Rocker bushing-to-rocker shaft clearance	[19] 0.06 to 0.11	0.2	Replace

A Lubricants

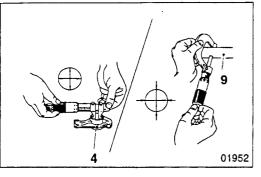
Location	Points of application	Туре	Quantity
4	Rocker bushing inner surface	Engine oil	As required

C Special tools

Location	Tool name and shape		Part No.	Application	
4	Rocker Bushing Puller	¢ 19 010000000000000000000000000000000000		Removing and installing rocker bushings	

Unit: mm

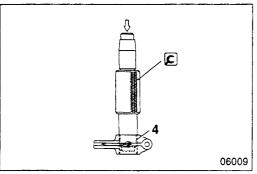
Unit: mm



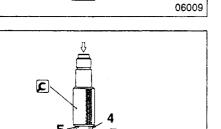
♦ Service procedure

4 9 Rocker bushing and rocker shaft

[Inspection] If any clearance exceeds the specified limit, replace the defective part(s).



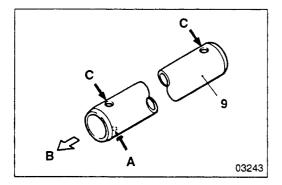
Rocker bushing [Removal]



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[Installation]

- Align the oil hole A in the rocker bushing 4 with the oil hole D in the rocker 7.
- Position the notch E and seam F on the rocker bushing 4 as shown.
- Install the rocker bushing 4 into the rocker 7 from the chamfered side G.

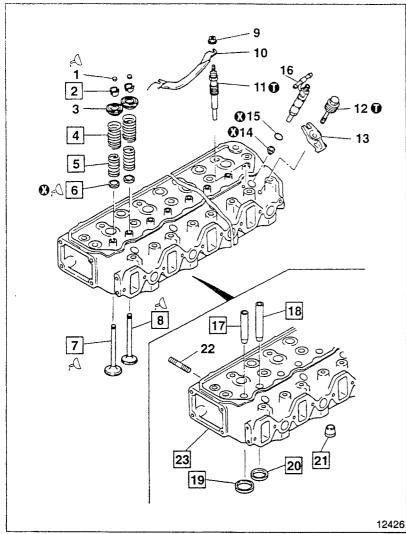


9 Installing rocker shaft

Install the rocker shaft **9** with the engine oil supply hole **A** (this is provided for lubrication) toward the front of the engine **B**.

C: Hole for set bolt 1

Cylinder Head and Valve Assembly



Disassembly sequence

- 1 Valve cap
- 2 Valve cotter
- 3 Upper retainer
- 4 Outer valve spring
- 5 Inner valve spring
- 6 Valve stem seal
- 7 Inlet valve
- 8 Exhaust valve
- 9 Nut
- 10 Connecting plate
- 11 Glow plug III Gr 54
- 12 Bolt
- 13 Nozzle bridge
- 14 Nozzle tip gasket
- 15 O-ring
- 16 Injection nozzle () Gr 13
- 17 Inlet valve guide
- 18 Exhaust valve guide
- 19 Inlet valve seat
- 20 Exhaust valve seat
- 21 Water director
- 22 Stud
- 23 Cylinder head
- (): Non-reusable part

CAUTION

The injection nozzles 16 and glow plugs 11 project from the bottom surface of cylinder head 23. Take care not to damage them.

Assembly sequence

Reverse the order of disassembly.

NOTE

Any valve stem seal 6 removed from an exhaust valve 8 or inlet valve 7 must be replaced.