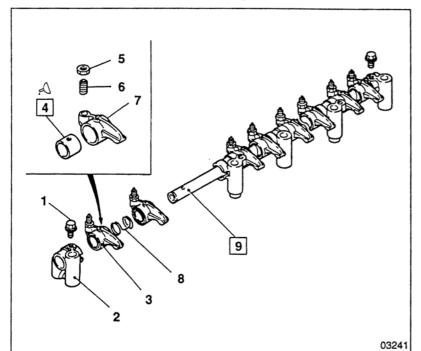
# **Rocker and Bracket Assembly**



#### 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

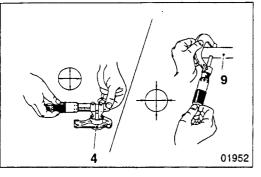
Location	Points of application	Туре	Quantity
4	Rocker bushing inner surface	Engine oil	As required

## **C** Special tools

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

Unit: mm

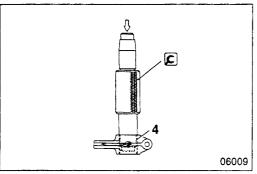
Unit: mm



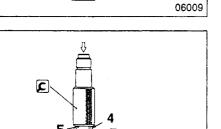
## ♦ Service procedure

4 9 Rocker bushing and rocker shaft

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



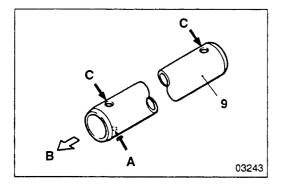
Rocker bushing [Removal]



03242

[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.

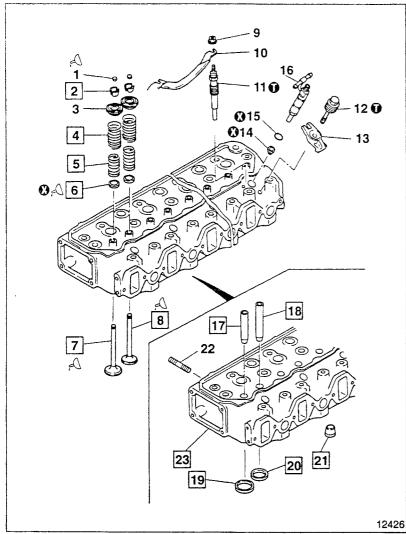


## 9 Installing rocker shaft

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.