



Valve Clearance

■ IMPORTANT

- **Valve clearance must be checked and adjusted when engine is cold.**

1. Remove the cylinder head cover and the glow plugs.
2. [ZD321]
Align the "1TC" mark (1) on the flywheel and alignment mark so that the No. 1 piston comes to the compression top dead center.
[Except ZD321]
Align the "1TC" mark (1) on the flywheel and alignment mark (b) so that the No. 1 piston comes to the compression top dead center.
3. Check the following valve clearance marked with "☆" using a thickness gauge.
4. If the clearance is not within the factory specifications, adjust with the adjusting screw.
5. Then turn the flywheel 6.28 rad (360 °), and align the "1TC" mark (1) on the flywheel and alignment mark so that the No. 1 piston comes to the overlap position.
6. Check the following valve clearance marked with "☆" using a feeler gauge.

Adjustable cylinder location of piston		Number of cylinders Valve arrangement	
		3 cylinder	
		IN.	EX.
When No. 1 piston is at compression top dead center	1st	☆	☆
	2nd		☆
	3rd	☆	
When No. 1 piston is at overlap position	1st		
	2nd	☆	
	3rd		☆

Valve clearance	Factory specification	0.145 to 0.185 mm 0.00571 to 0.00728 in.
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■ NOTE

- The sequence of cylinder numbers is given as No. 1, No. 2 and No. 3 starting from the gear case side.
- After adjusting the valve clearance, secure the adjusting screw with the lock nut.

(1) "1TC" Mark

[A] ZD321

[B] Except ZD321

(b) Alignment Mark

9Y1210265ENS0004US0