



### Checking 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. Align the “1TC” mark (1) on the flywheel and alignment mark (2) on the rear end plate so that the No. 1 piston comes to the compression top dead center.
  3. Check the following valve clearance marked with “★” using a feeler 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 (3) on the rear end plate so that the No. 1 piston comes to the overlap position.
  6. Check the following valve clearance marked with “☆” using a feeler gauge.
  7. If the clearance is not within the factory specifications, adjust with the adjusting screw.

Number of cylinders Valve arrangement	Intake valve	Exhaust valve
No. 1	★	★
No. 2	☆	★
No. 3	★	☆

★ : When No. 1 piston is at the compression top dead center position, valve clearance is adjustable.

☆ : When No. 1 piston is at the overlap position, valve clearance is adjustable.

Intake and exhaust valve clearance (cold)	Factory spec.	0.145 to 0.185 mm 0.00571 to 0.00728 in.
---	---------------	---

#### ■ 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
- (2) Alignment Mark

A : Gear Case Side

W10172470