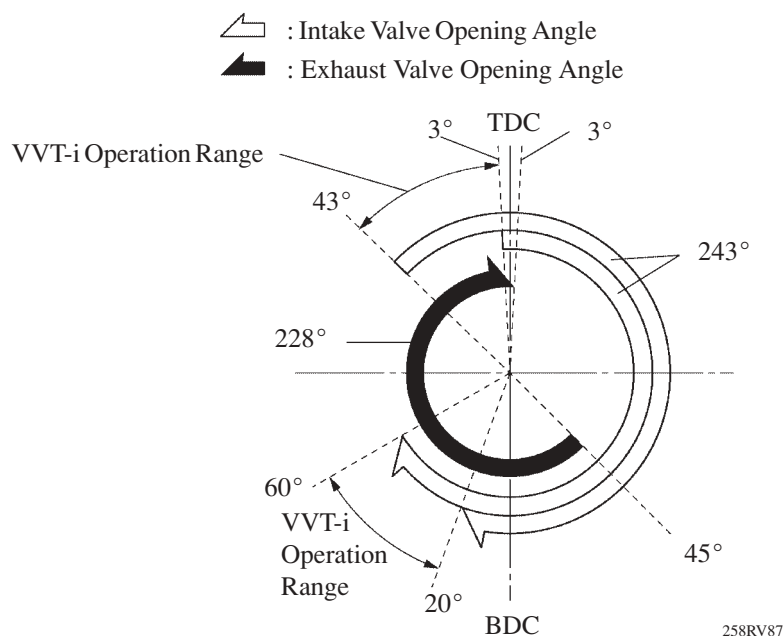


► Valve Timing ◀



2. Feature of 2AZ-FE Engine

The 2AZ-FE engine has been able to achieve the following performance through the adoption of the item listed below.

- (1) High performance and good fuel economy
- (2) Low noise and vibration
- (3) Lightweight and compact design
- (4) Good serviceability
- (5) Clean emission

Item	(1)	(2)	(3)	(4)	(5)
The VVT-i system is used.	○				○
The ETCS-i has been newly adopted.	○				
A cylinder block made of aluminum alloy along with a magnesium head cover has been adopted.			○		
The taper squish shape has been adopted for the piston head.	○				○
The DIS (Direct Ignition System) makes ignition timing adjustment unnecessary.	○			○	○
A serpentine belt drive system has been adopted, and the brackets and the engine have been integrated.			○	○	
Timing chain has been used.			○	○	
The fuel returnless system has been adopted.			○	○	○
Quick connectors are used to connect the fuel hose with the fuel pipes.				○	
12-hole type fuel injectors with high atomizing performance have been adopted.	○				○
Iridium-tipped spark plugs have been adopted.	○			○	
Intake manifold made of plastic has been adopted.			○		
A thin-wall, high-cell density ceramic type TWC (Three-Way Catalytic Converter) has been adopted.					○
The 2-way exhaust control system has been adopted in main muffler.		○			
The use of an air fuel ratio sensor allows precise control.					○
A resin gear balance shaft has been adopted.		○	○		