

- a. Set No. 1 cylinder at TDC of its compression stroke.
- Rotate crankshaft pulley clockwise to align timing mark (grooved line without color) with timing indicator.

← : Timing mark (grooved line without color)

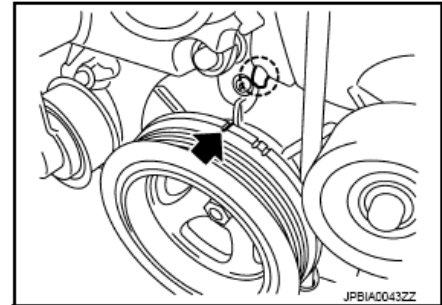


Fig. 8: Locating Timing Mark (Grooved Line Without Color)
Courtesy of NISSAN NORTH AMERICA, INC.

- Check that exhaust cam nose on No. 1 cylinder (engine front side of bank 1) is located as shown in the figure.

1 : Camshaft (EXH) (bank 1)

⇐ : Engine front

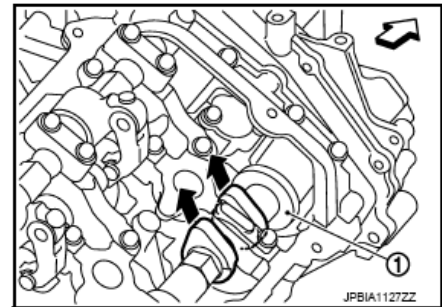


Fig. 9: Identifying Exhaust Cam Nose On No. 1 Cylinder (Engine Front Side Of Bank 1)
Courtesy of NISSAN NORTH AMERICA, INC.

- If not, turn crankshaft one revolution (360 degrees) and align as shown in the figure.
- By referring to the figure, measure the valve clearances at locations marked "x" as shown in the table below (locations indicated in the figure).

2012 Infiniti G25 Journey

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↩ : Engine front

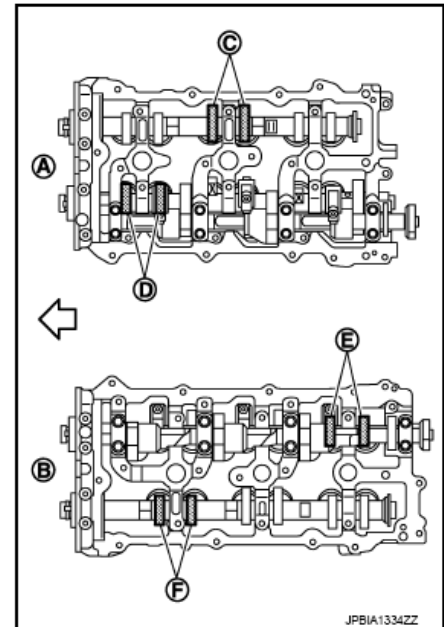


Fig. 10: Valve Clearances Measuring Location
Courtesy of NISSAN NORTH AMERICA, INC.

- No. 1 cylinder at compression TDC

Measuring position [bank 1 (A)]		No. 1 CYL.	No. 3 CYL.	No. 5 CYL.
No. 1 cylinder at compression TDC	EXH		x (C)	
	INT	x (D)		
Measuring position [bank 2 (B)]		No. 2 CYL.	No. 4 CYL.	No. 6 CYL.
No. 1 cylinder at compression TDC	INT			x (E)
	EXH	x (F)		

- Rotate crankshaft 240 degrees clockwise (when viewed from engine front) to align No. 3 cylinder at TDC its compression stroke.

NOTE: Mark a position 240 degrees (b) from a corner of the hexagonal part of crankshaft pulley mounting bolt as shown in the figure. Use the hexagonal part as a guide.

- 1 : Crankshaft pulley
A : Paint mark

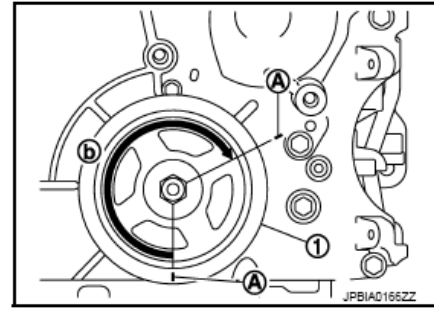


Fig. 11: Rotating Crankshaft 240 Degrees Clockwise
Courtesy of NISSAN NORTH AMERICA, INC.

- By referring to the figure, measure the valve clearances at locations marked "x" as shown in the table below (locations indicated in the figure).

↩ : Engine front

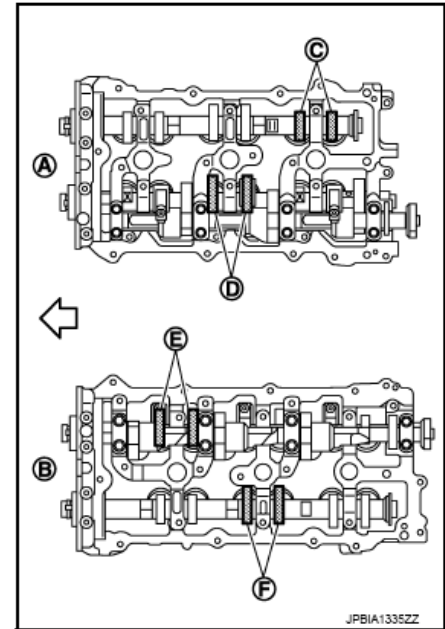


Fig. 12: Valve Clearances Measure Locations
Courtesy of NISSAN NORTH AMERICA, INC.

- No. 3 cylinder at compression TDC

Measuring position [bank 1 (A)]		No. 1 CYL.	No. 3 CYL.	No. 5 CYL.
No. 3 cylinder at compression TDC	EXH			x (C)
	INT		x (D)	
Measuring position [bank 2 (B)]		No. 2 CYL.	No. 4 CYL.	No. 6 CYL.
No. 3 cylinder at compression TDC	INT	x (E)		
	EXH		x (F)	

- c. Rotate crankshaft 240 degrees clockwise (when viewed from engine front) to align No. 5 cylinder at TDC of compression stroke.

NOTE: Mark a position 240 degrees (b) from a corner of the hexagonal part of crankshaft pulley mounting bolt as shown in the figure. Use the hexagonal part as a guide.

1 : Crankshaft pulley
A : Paint mark

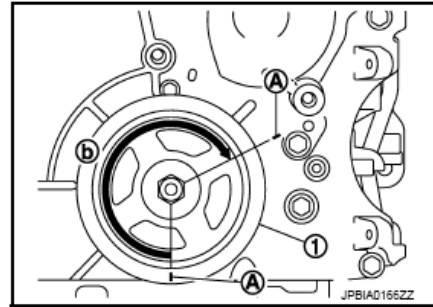


Fig. 13: Rotating Crankshaft 240 Degrees Clockwise
Courtesy of NISSAN NORTH AMERICA, INC.

- By referring to the figure, measure the valve clearances at locations marked "x" as shown in the table below (locations indicated in the figure).

← : Engine front

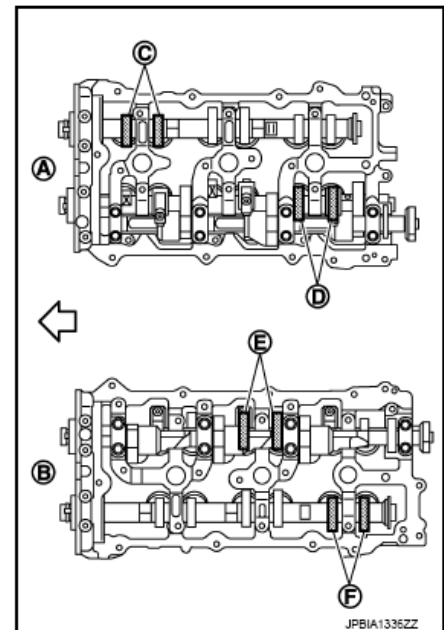


Fig. 14: Valve Clearances Measuring Locations
Courtesy of NISSAN NORTH AMERICA, INC.

- No. 5 cylinder at compression TDC

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