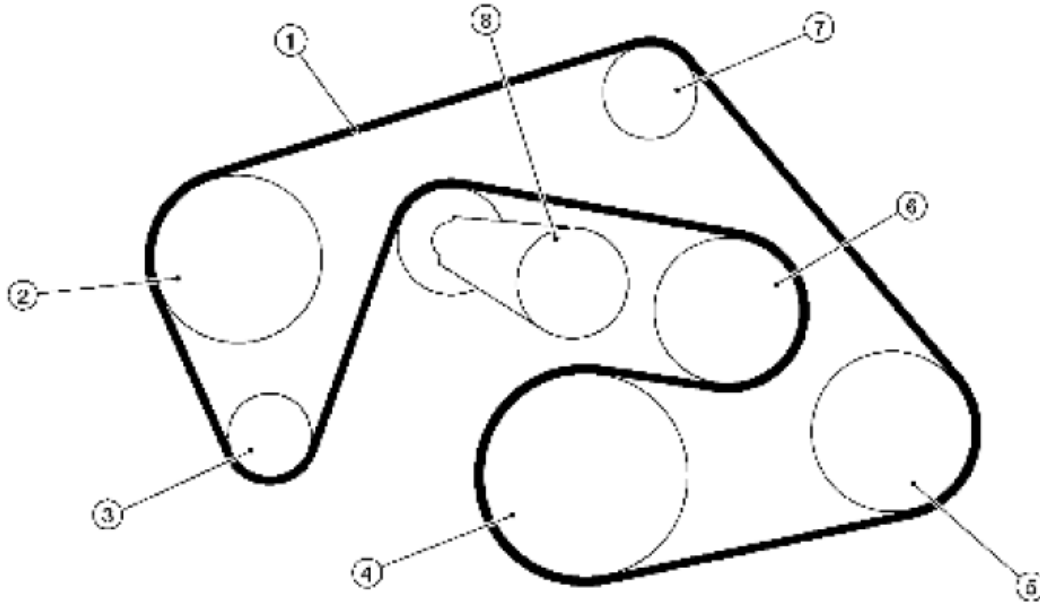


REPAIR INSTRUCTIONS

DRIVE BELTS: EXPLODED VIEW



1.	Drive belt	2.	Power steering oil pump pulley	3.	Generator pulley
4.	Crankshaft pulley	5.	A/C compressor	6.	Cooling fan pulley
7.	Idler pulley	8.	Drive belt tensioner		

Fig. 6: Exploded View Of Drive Belt (VQ40DE)
 Courtesy of SUZUKI OF AMERICA CORP.

CHECKING DRIVE BELTS

WARNING: Be sure to perform when the engine is stopped.

1. Remove air duct and resonator assembly when inspecting drive belt. Refer to **AIR CLEANER AND AIR DUCT: REMOVAL AND INSTALLATION**
2. Make sure that the auto tensioner indicator is within the allowable working range (A) as shown.

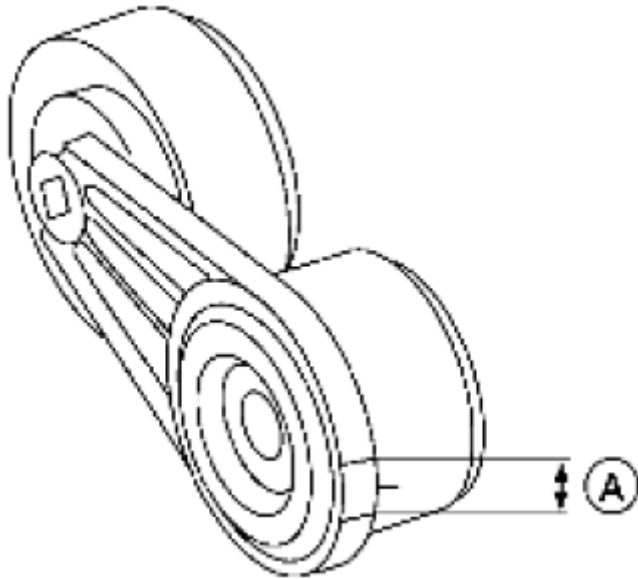


Fig. 7: Identifying Auto Tensioner Indicator Allowable Working Range
Courtesy of SUZUKI OF AMERICA CORP.

3. Visually check entire belt for wear, damage or cracks.
4. If the indicator is out of allowable working range or drive belt is damaged, replace the drive belt. Refer to **DRIVE BELTS: REMOVAL AND INSTALLATION**

DRIVE BELTS: ADJUSTMENT

There is no manual drive belt tension adjustment. The drive belt tension is automatically adjusted by the drive belt auto tensioner.

DRIVE BELTS: REMOVAL AND INSTALLATION

REMOVAL

1. Remove air duct and resonator assembly. Refer to [**AIR CLEANER AND AIR DUCT: REMOVAL AND INSTALLATION**].
2. Rotate the drive belt auto tensioner in the direction of arrow (loosening direction of tensioner) as shown, using suitable tool.

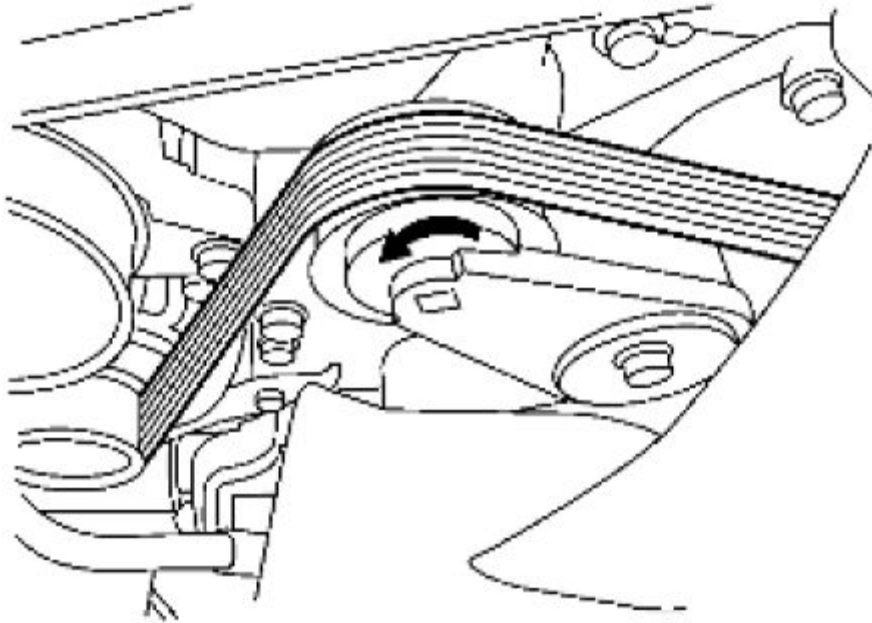


Fig. 8: Rotating Drive Belt Auto Tensioner
Courtesy of SUZUKI OF AMERICA CORP.

WARNING: Avoid placing hand in a location where pinching may occur if the tool accidentally comes off.

3. Remove the drive belt.

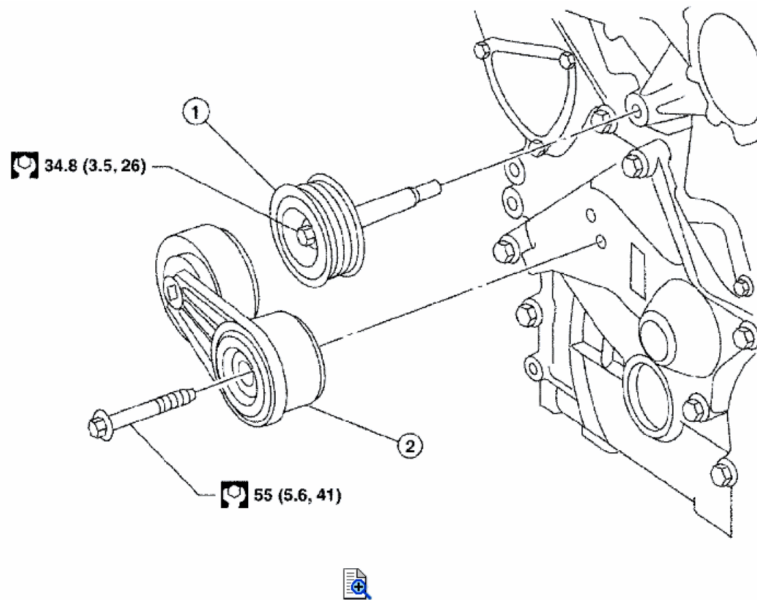
INSTALLATION

Installation is in the reverse order of removal.

CAUTION: Make sure belt is securely installed around all pulleys.

DRIVE BELT AUTO TENSIONER AND IDLER PULLEY: REMOVAL AND INSTALLATION

SEC. 117



1. Idler pulley	2. Drive belt auto tensioner
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Fig. 9: Identifying Drive Belt Auto Tensioner And Idler Pulley
Courtesy of SUZUKI OF AMERICA CORP.

REMOVAL

1. Remove air duct and resonator assembly. Refer to [**AIR CLEANER AND AIR DUCT: REMOVAL AND INSTALLATION**].
2. Remove drive belt. Refer to [**DRIVE BELTS: REMOVAL AND INSTALLATION**].
3. Remove auto tensioner and idler pulley using power tool.

INSTALLATION

Installation is in the reverse order of removal.

AIR CLEANER FILTER: EXPLODED VIEW

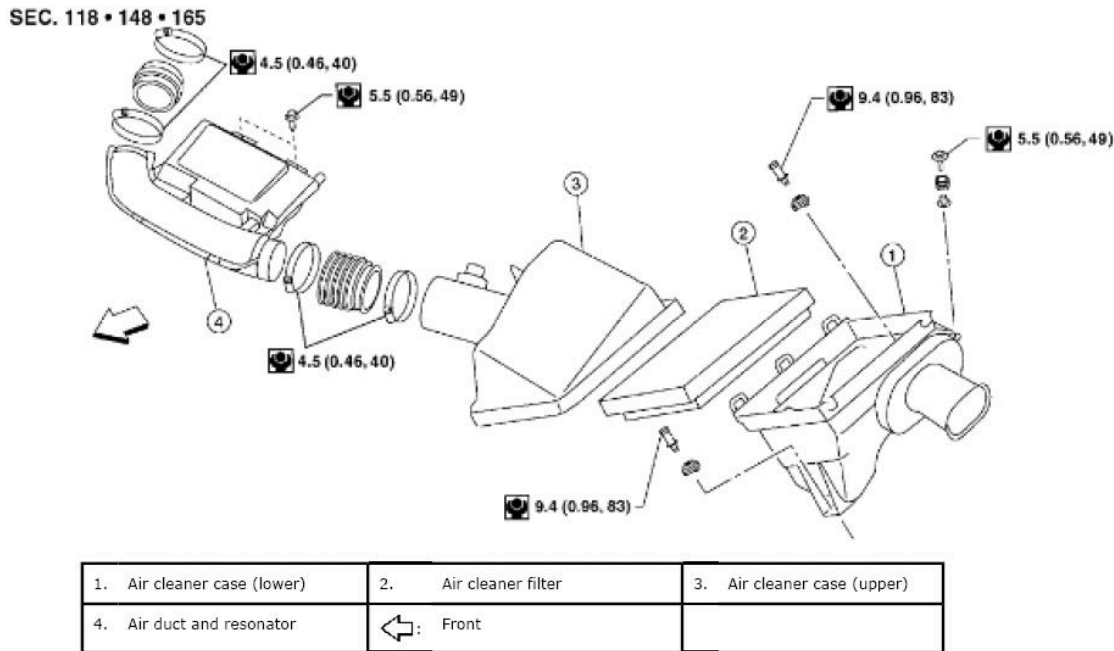


Fig. 10: Exploded View Of Air Cleaner (VQ40DE)
 Courtesy of SUZUKI OF AMERICA CORP.

AIR CLEANER FILTER: REMOVAL AND INSTALLATION

REMOVAL

1. Disconnect air duct and resonator from the air cleaner case (upper).
2. Disconnect MAF/IAT sensor.
3. Unhook clips, and lift air cleaner case (upper).
4. Remove air cleaner filter.

INSTALLATION

Installation is in the reverse order of removal.

CAMSHAFT VALVE CLEARANCE

INSPECTION

NOTE: Perform the following inspection after removal, installation or replacement of camshaft or valve-related parts, or if there are unusual engine conditions due to changes in valve clearance over time (starting, idling, and/or noise).

1. Remove the engine room cover. Refer to [**ENGINE ROOM COVER: REMOVAL AND INSTALLATION**].
2. Remove the air cleaner and air duct assembly. Refer to [**AIR CLEANER AND AIR DUCT:**

EXPLODED VIEW.

3. Remove rocker covers (RH and LH banks). Refer to [**ROCKER COVER: REMOVAL AND INSTALLATION**].
4. Measure the valve clearance as follows:
 - a. Set No. 1 cylinder at TDC of its compression stroke.
 - Rotate crankshaft pulley clockwise to align timing mark (A) (grooved line without color) with timing indicator (B).

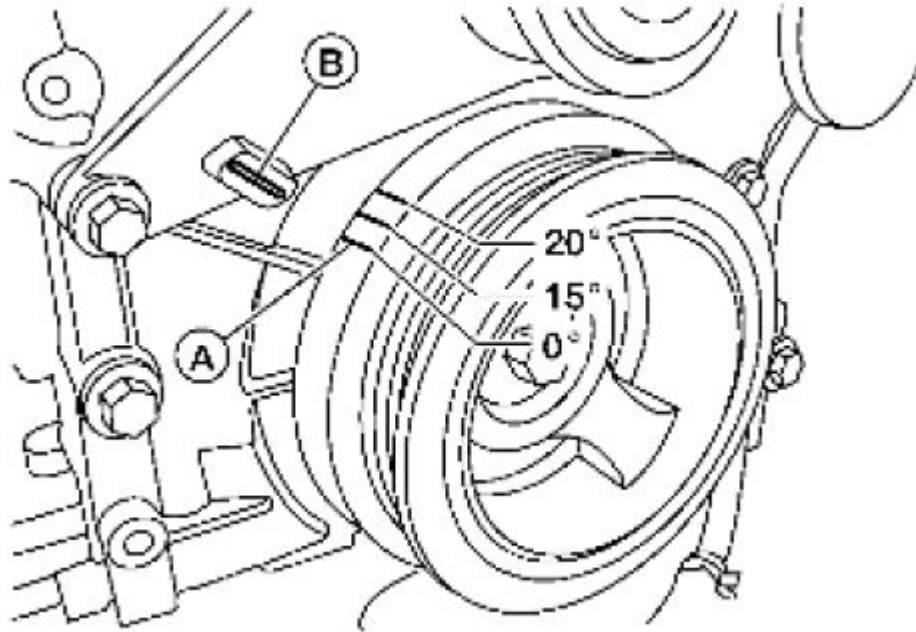


Fig. 11: Aligning Timing Mark With Timing Indicator
Courtesy of SUZUKI OF AMERICA CORP.

- Make sure that intake and exhaust cam noses on No. 1 cylinder (engine front side of RH bank) are located as shown.

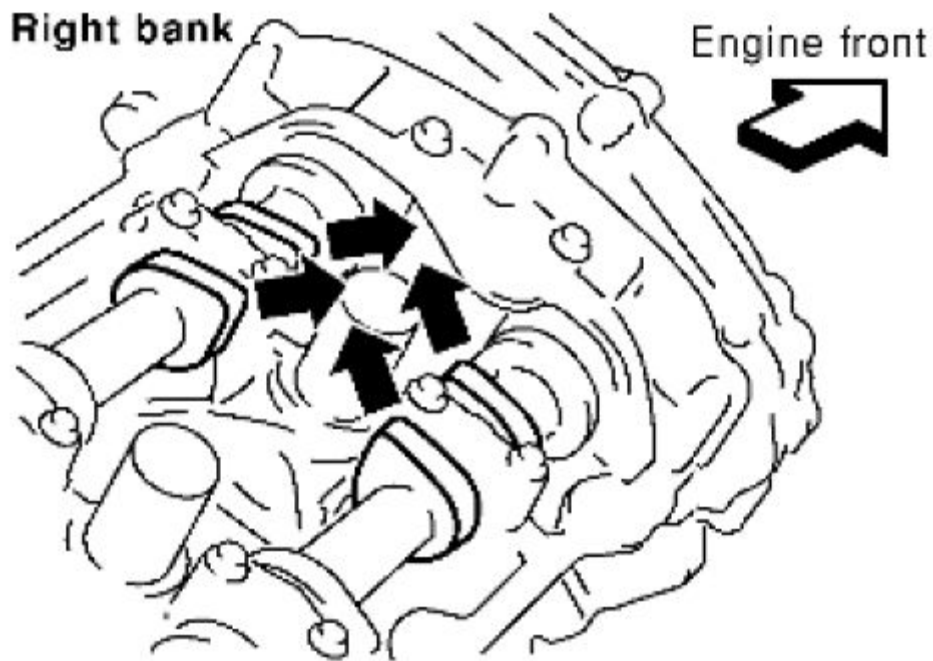


Fig. 12: Identifying Intake And Exhaust Cam Noses On No. 1 Cylinder
Courtesy of SUZUKI OF AMERICA CORP.

- If not, rotate crankshaft one revolution (360°) and align as shown.
- b. Use feeler gauge, measure the clearance between valve lifter and camshaft.

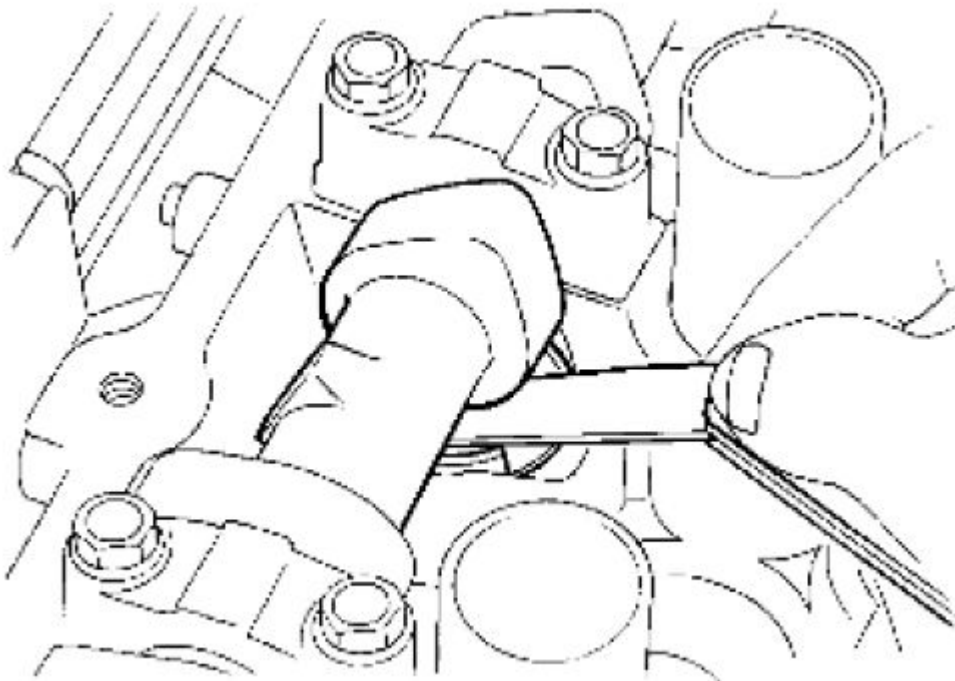


Fig. 13: Measuring Clearance Between Valve Lifter And Camshaft