Valve Lash Adjusting Procedure

Following the simplified procedure shown in the chart below, all valves can be adjusted accurately. Note that the engine need not be cranked six times to position the piston of each cylinder on T.D.C. All valves are adjusted by cranking the engine only twice.

Six valves are adjusted when the No. 1 piston is at T.D.C. (Compression) and the remaining six are adjusted when the No. 6 piston is at T.D.C. (Compression). Illust. 6 shows the numbering sequence of the valves which correspond to the chart.

<table>
<thead>
<tr>
<th>ADJUST VALVES (ENGINE WARM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>With No. 1 Piston at T.D.C. (Compression)</td>
</tr>
<tr>
<td>With No. 6 Piston at T.D.C. (Compression)</td>
</tr>
</tbody>
</table>

Illustr. 68. Assembly sequence of the valve lever mechanism.

*Engine warm means - any temperature above freezing. Valve lash may be adjusted while the engine is hot - however the quality of workmanship usually suffers due to the heat.
ADJUSTING THE VALVES

Remove the valve covers.

Locate Top Dead Center (TDC) for Cylinder Number 1 by barring engine slowly while pressing on the engine timing pin.

When the pin engages the hole in the camshaft gear, Cylinder Number 1 is at TDC on the compression stroke.

CAUTION: BE SURE TO DISENGAGE THE PIN AFTER LOCATING TDC.
Intake Clearance: .254mm [.010 inch]  
Exhaust Clearance: .508mm [.020 inch]  

Check/set valves with engine cold - below 60°C [140°F].  

NOTE: THE CLEARANCE IS CORRECT WHEN SOME RESISTANCE IS "FELT" WHEN THE FEELER GAUGE IS SLIPPED BETWEEN THE VALVE STEM AND THE ROCKER LEVER.  

FOUR-CYLINDER ENGINE  

Check/adjust the valves indicated for STEP A (I = Intake; E = Exhaust).  

Tighten the locknut to 24 N·m [18 ft-lbs] and recheck the valve lash.  

Mark the pulley and rotate the crankshaft 360 degrees.  

△ BE SURE THE TIMING PIN IS DISENGAGED.  

Set the valves indicated for STEP B.  

Tighten the lock nut to 24 N·m [18 ft-lbs] and recheck the valve lash.
STEP B. Six-Cylinder

Set the valves indicated for STEP B.

Tighten the lock nut to 24 N·m [18 ft-lbs] and recheck the valve lash.

Wrench Size: 15mm

Install the valve covers and tighten cap-screws to 24 N·m [18 ft-lbs].