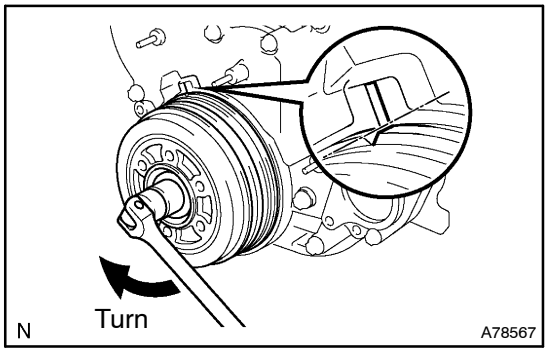
VALVE CLEARANCE (15B–FTE)

1417B–01

ADJUSTMENT

1. REMOVE FRONT SEAT ASSEMBLY (DRIVER SEAT) (W/O TILT CAB CAB TYPE) (See page 72–2)
2. REMOVE PARKING BRAKE HOLE COVER (W/O TILT CAB CAB TYPE) (See page 33–3)
3. REMOVE PARKING BRAKE LEVER ASSY (W/O TILT CAB CAB TYPE) (See page 33–3)
4. REMOVE FLOOR SHIFT SHIFT LEVER KNOB SUB–ASSY (W/O TILT CAB CAB TYPE) (See page 41–11)
5. REMOVE SHIFTING HOLE COVER SUB–ASSY AND SHIFT LEVER BOOT COVER (W/O TILT CAB CAB TYPE) (See page 41–11)
6. REMOVE SHIFT AND SELECT TRANSMISSION CONTROL CABLE ASSY (W/O TILT CAB CAB TYPE) (See page 41–19)
7. REMOVE FLOOR SHIFT ASSY (W/O TILT CAB CAB TYPE) (See page 41–11)
8. REMOVE ENGINE SERVICE HOLE SUB COVER SUB–ASSY (W/O TILT CAB CAB TYPE) (See page 14–62)
9. REMOVE OIL FILLER CAP SUB–ASSY
10. REMOVE CYLINDER HEAD COVER SUB–ASSY (See page 14–62)

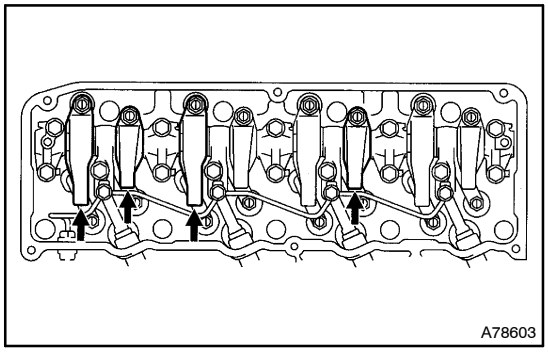


11. SET NO. 1 CYLINDER TO TDC/COMPRESSION

(a) Turn the crankshaft pulley clockwise, and align its groove with the groove of the timing gear cover.

(b) Check that the valve rocker arm on the No. 1 cylinder is loose and valve rocker arm on the No. 4 cylinder is tight.

If not, turn the crankshaft 1 revolution (360°) and align the mark as above.



12. INSPECT VALVE CLEARANCE

(a) Check only the 4 valves indicated in the illustration.

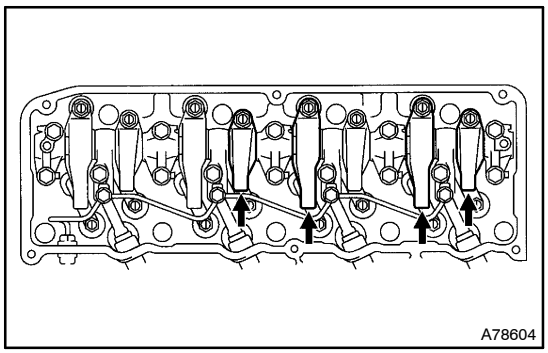
(1) Using a feeler gauge, measure the clearance between the adjusting screw on the valve rocker arm and the valve step cap.

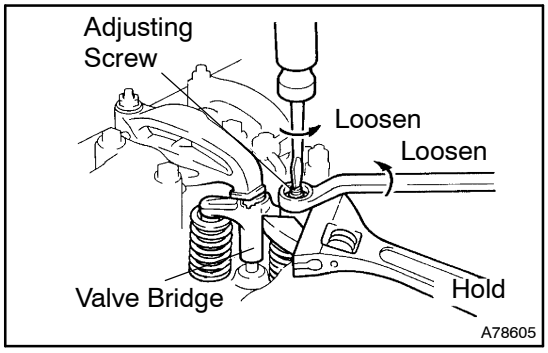
(2) Record the out–of–specification valve clearance measurements.

Valve clearance (Hot):
0.20 mm (0.008 in.) for Intake
0.36 mm (0.014 in.) for Exhaust

(b) Turn the crankshaft pulley 1 revolution (360°) and align the mark as above (See step 11).

(c) Check only the 4 valves indicated as shown in the illustration. Measure the valve clearance (See step (a)).





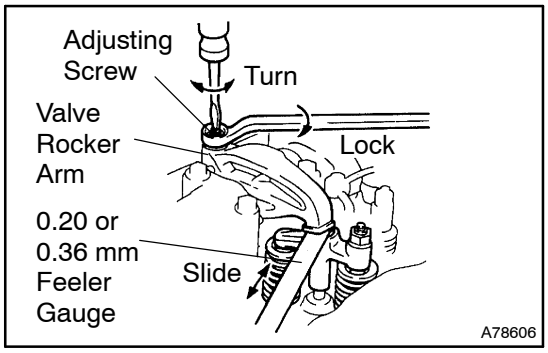
13. ADJUST VALVE CLEARANCE

(a) Recheck the valve clearance.

(b) Loosen the lock nut on the valve bridge, and loosen the adjusting screw until the adjusting screw and valve stem are completely separated.

NOTICE:

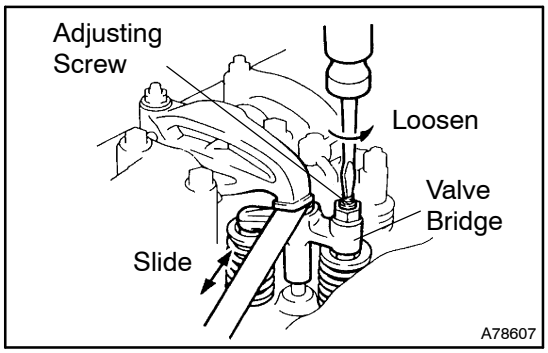
Hold the valve bridge with a wrench, and loosen the lock nut. Do not apply torque to the valve bridge.



(c) Loosen the lock nut on the valve rocker arm, and loosen the adjusting screw.

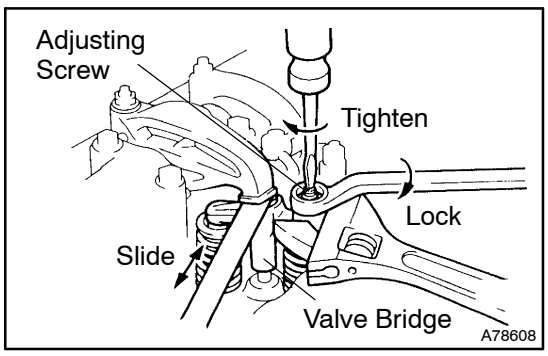
(d) Insert a 0.20 mm (0.008 in.) feeler gauge for intake or 0.36 mm (0.014 in.) feeler gauge for exhaust between the adjusting screw on the valve rocker arm and the valve bridge.

(e) Turn the adjusting screw on the valve rocker arm until the feeler gauge slides with a very slight drag, and lock the adjusting screw with the lock nut.



(f) With the feeler gauge inserted, check that the resistance of the feeler gauge remains the same when the adjusting screw on the valve bridge is loosened.

If the resistance of the feeler gauge changes, perform the above operations again from step (b).

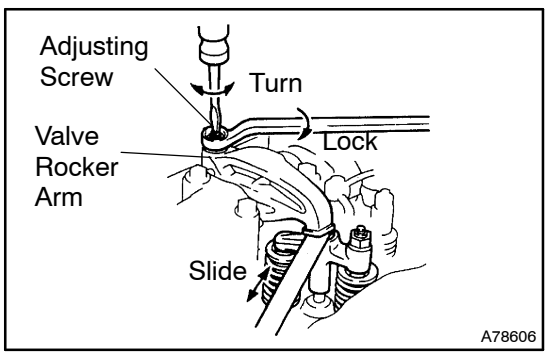


(g) Tighten the adjusting screw on the valve bridge, and lock the adjusting screw with the lock nut when the resistance of the feeler gauge begins to get stronger.

Torque: 18.5 N·m (189 kgf·cm, 14 ft·lbf)

NOTICE:

Hold the valve bridge with a wrench, and lock the adjusting screw with the lock nut. Do not apply torque to the valve bridge.



(h) Loosen the lock nut on the valve rocker arm.

(i) Turn the adjusting screw on the valve rocker arm until the feeler gauge slides with a very slight drag, and lock the adjusting screw with the lock nut.

Torque: 18.5 N·m (189 kgf·cm, 14 ft·lbf)

(j) Recheck the valve clearance.

14. INSTALL CYLINDER HEAD COVER SUB–ASSY (See page 14–62)
15. INSTALL OIL FILLER CAP SUB–ASSY
16. INSTALL ENGINE SERVICE HOLE SUB COVER SUB–ASSY (W/O TILT CAB CAB TYPE) (See page 14–62)
17. INSTALL FLOOR SHIFT ASSY (W/O TILT CAB CAB TYPE) (See page 41–11)
18. INSTALL SHIFT AND SELECT TRANSMISSION CONTROL CABLE ASSY (W/O TILT CAB CAB TYPE) (See page 41–19)
19. INSTALL PARKING BRAKE LEVER ASSY (W/O TILT CAB CAB TYPE) (See page 33–3)
20. INSTALL FRONT SEAT ASSEMBLY (DRIVER SEAT) (W/O TILT CAB CAB TYPE) (See page 72–2)
21. ADJUST PARKING BRAKE SHOE CLEARANCE (CENTER PARKING BRAKE) (See page 33–2)
22. INSPECT AND ADJUST PARKING BRAKE LEVER TRAVEL (See page 33–2)