TOYOTA

REPAIR MANUAL

4Y ENGINE

CE663

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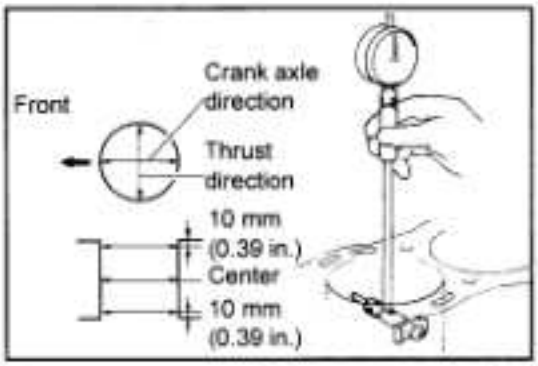
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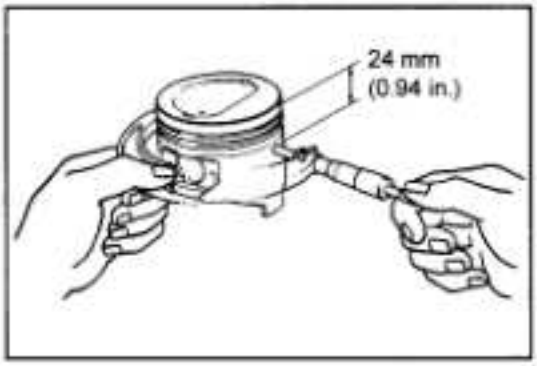
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2. Measure the six points shown in the left illustration, and find the difference between the maximum and minimum values.

Limit: 0.05 mm (0.0020 in.)

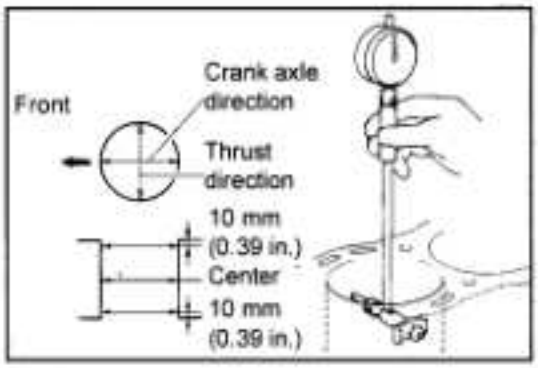


3. Measure the piston clearance.

(1) Measure the outside diameter of the piston.

Measurement position:
Measure the diameter at the place in a position 24 mm (0.94 in.) from the top of the piston and orthogonal to the piston pin.

Standard
STD: 90.925 to 90.955 mm (3.5797 to 3.5809 in.)
O/S 0.5: 91.425 to 91.455 mm (3.599 to 3.601 in.)

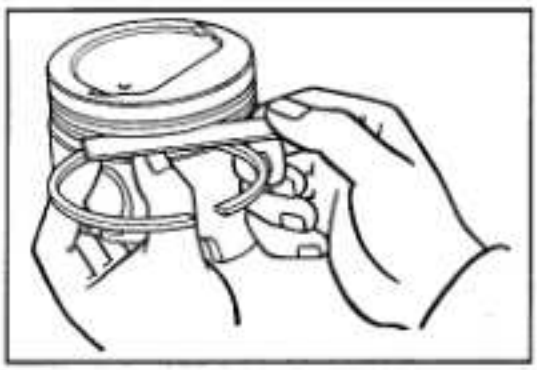


(2) Measure the cylinder bore and calculate the piston clearance.

Standard: 0.065 to 0.085 mm (0.0026 to 0.0033 in.)

If the value exceeds the limit, replace the piston or rebore the cylinder and install an O/S piston.

Note:
Boring dimension = P + C - H
P: Outside diameter of the piston C: Piston clearance
H: Honing margin (0.02 mm [0.0008 in.] or less)

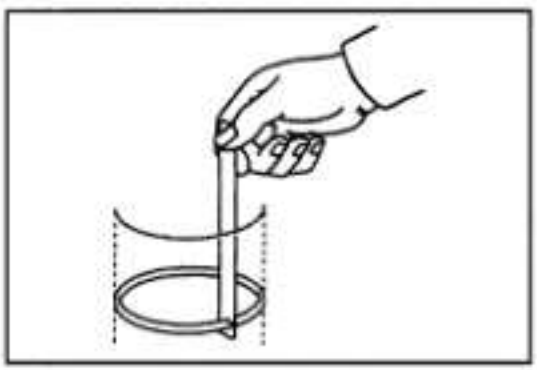


Inspection:

Inspect the piston and the connecting rod.

1. Measure the gap between the piston ring and the ring groove along the entire circumference.

Standard: 0.03 to 0.07 mm (0.0012 to 0.0028 in.)



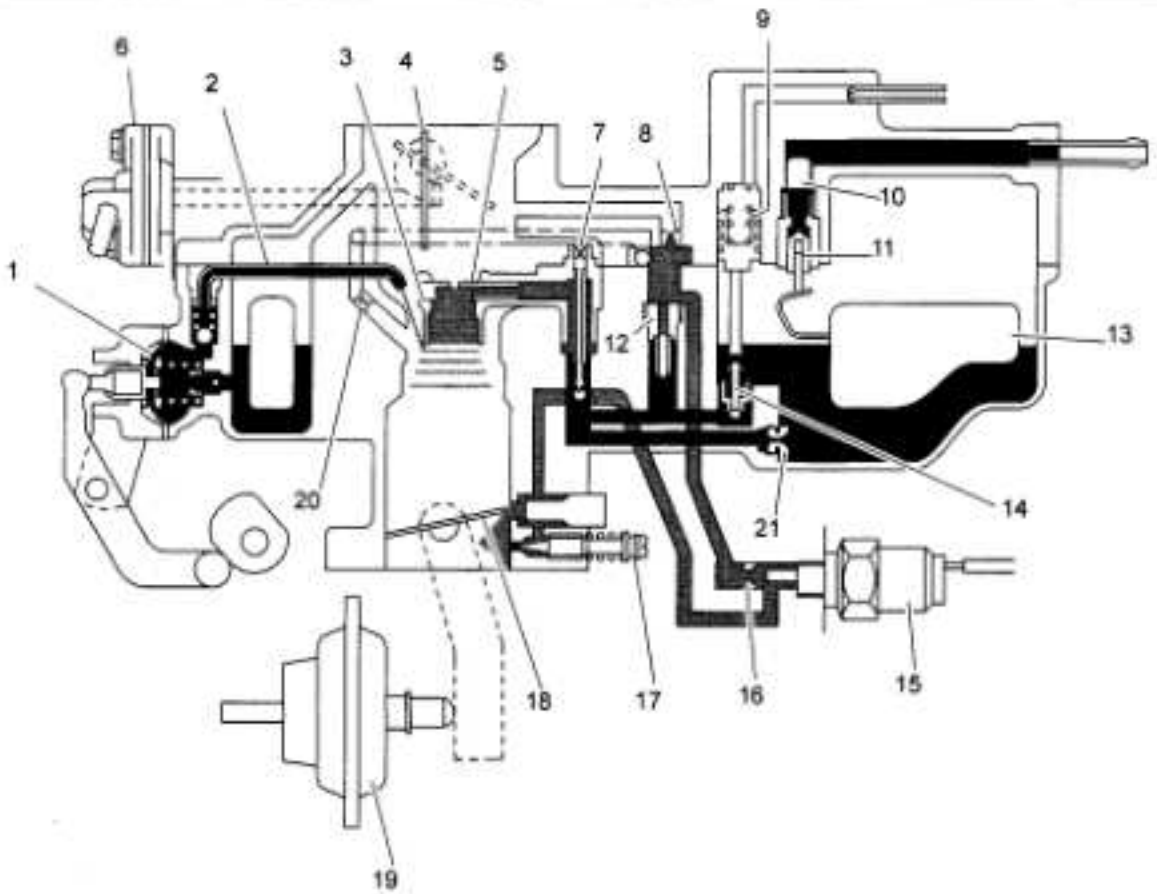
2. Press the piston ring into the sliding section of the piston, and measure the piston ring gap.

Standard
No.1: 0.23 to 0.48 mm (0.0091 to 0.0189 in.)
No.2: 0.16 to 0.44 mm (0.0063 to 0.0173 in.)
Oil ring: 0.13 to 0.47 mm (0.0051 to 0.0185 in.)

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CARBURETOR

SCHEMATIC DIAGRAM

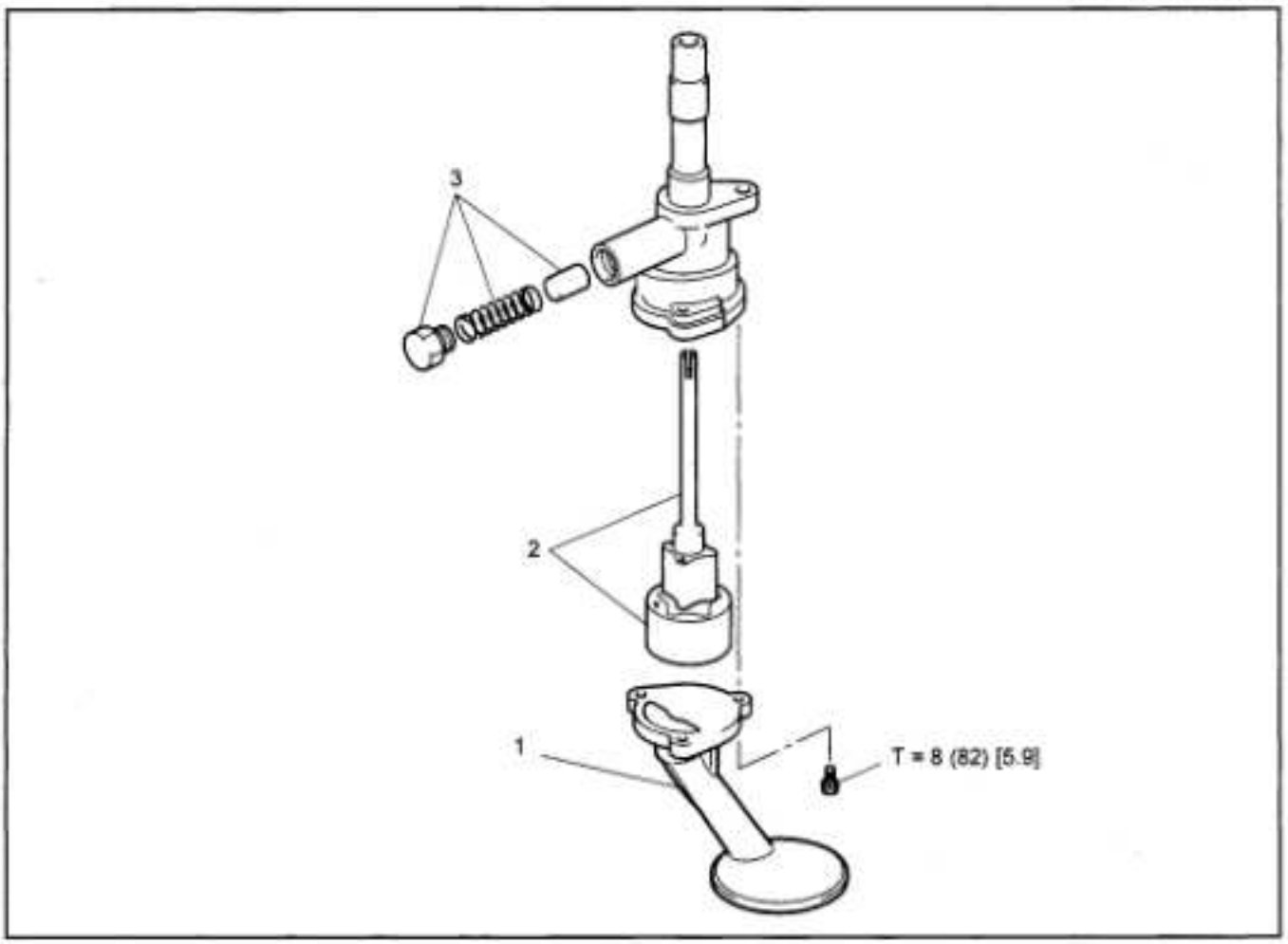


1	Accelerator pump diaphragm	12	Slow jet
2	Accelerator pump nozzle	13	Float
3	Small venturi tube	14	Power valve
4	Choke valve	15	Solenoid valve
5	Main nozzle	16	Economizer jet
6	Choke breaker	17	Idle adjusting screw
7	Main air bleed	18	Throttle valve
8	Slow air bleed No.2	19	Idle-up actuator
9	Power piston	20	Slow air bleed No.1
10	Strainer	21	Main jet
11	Needle valve		

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DISASSEMBLY·INSPECTION·REASSEMBLY

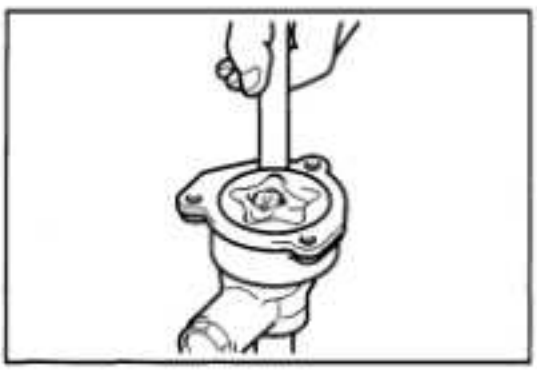
T = N·m (kgf·cm) [ft·lbf]



Disassembly·Reassembly Procedure

The reassembly procedure is the reverse of the disassembly procedure.

No.	Item	Disassembly	Inspection	Reassembly
1	Oil strainer			
2	Drive and driven rotors		**[Point 1]**	**[Point 2]**
3	Relief valve			



Point Operations

[Point 1]

Inspection:

Inspection of drive and driven rotors

1. Using the thickness gauge, measure the clearance (body clearance) between the driven rotor and the pump body.

   Standard: 0.10 to 0.16 mm (0.0039 to 0.0063 in.)
   Limit: 0.20 mm (0.008 in.)

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