

INSPECTION

1. INSPECT NO.1 AND NO.2 TIMING CHAINS

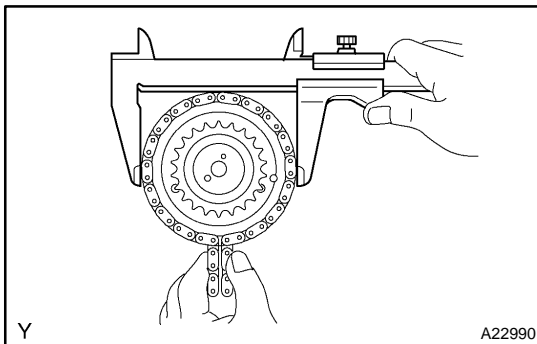
Using a spring scale, pull the chain sub assembly with 147 N (15.0 kgf, 33.1 lbf) of force and measure the length of the chain sub assembly using a vernier caliper.

Maximum chain elongation: 146.8 mm (5.780 in.)

NOTICE:

Perform the same measurements by pulling at random in 3 or more places to obtain an average length.

If the elongation is greater than the maximum, replace the chain.



2. INSPECT CAMSHAFT TIMING GEAR ASSEMBLY

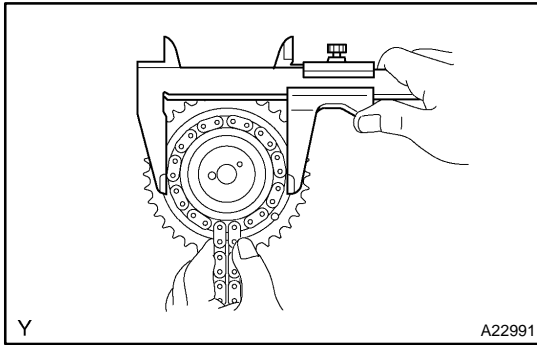
- Put the No. 1 chain on the larger gear of the camshaft timing gear assembly.
- Using a vernier caliper, measure the timing gear with the chain.

**Minimum gear diameter (w/ chain):
115.5 mm (4.547 in.)**

NOTICE:

The vernier caliper must contact the chain rollers for the measuring.

If the diameter is less than the minimum, replace the No. 1 chain and camshaft timing gear assembly.



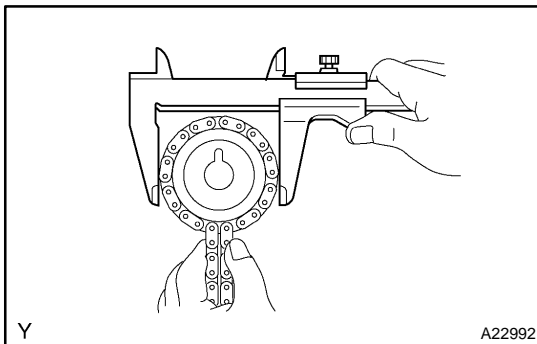
- (c) Put the No. 2 chain on the smaller gear of the camshaft timing gear assembly.
- (d) Using a vernier caliper, measure the timing gear with the chain.

Minimum gear diameter (w/ chain):
73.1 mm (2.878 in.)

NOTICE:

The vernier caliper must contact the chain rollers for the measuring.

If the diameter is less than the minimum, replace the No. 2 chain and camshaft timing gear assembly.



3. INSPECT CAMSHAFT TIMING SPROCKET

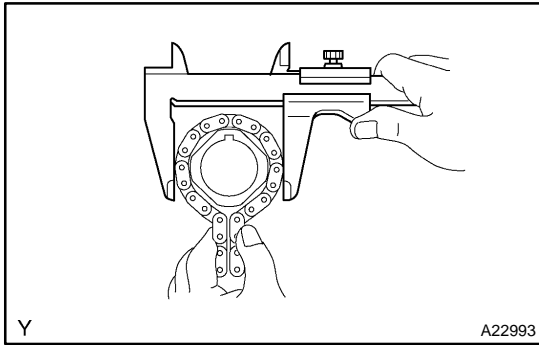
- (a) Put the No. 2 chain on the camshaft timing sprocket.
- (b) Using a vernier caliper, measure the camshaft timing sprocket diameter with the chain.

Minimum gear diameter (w/ chain):
73.1 mm (2.878 in.)

NOTICE:

The vernier caliper must contact the chain rollers for the measuring.

If the diameter is less than the minimum, replace the No. 2 chain and the camshaft timing sprocket.

**4. INSPECT CRANKSHAFT TIMING SPROCKET**

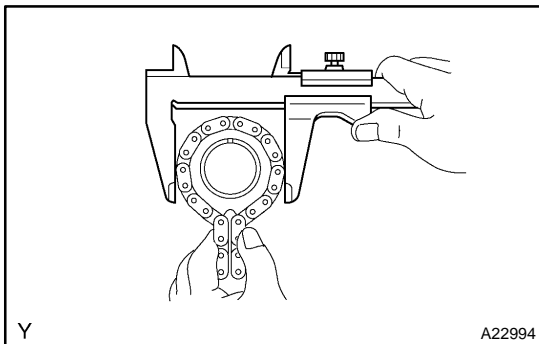
- (a) Put the No. 1 chain on the crankshaft timing sprocket.
- (b) Using a vernier caliper, measure the crankshaft timing gear diameter with the chain.

Minimum gear diameter (w/ chain):
61.0 mm (2.402 in.)

NOTICE:

The vernier caliper must contact the chain rollers for the measuring.

If the diameter is less than the minimum, replace the No. 1 chain and crankshaft timing sprocket.

**5. INSPECT IDLE GEAR NO.1**

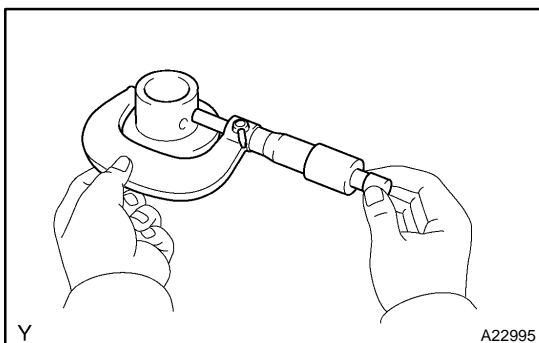
- (a) Put the No. 1 chain on the idle gear.
- (b) Using a vernier caliper, measure the idle gear with the chain.

Minimum gear diameter (w/ chain):
61.0 mm (2.402 in.)

NOTICE:

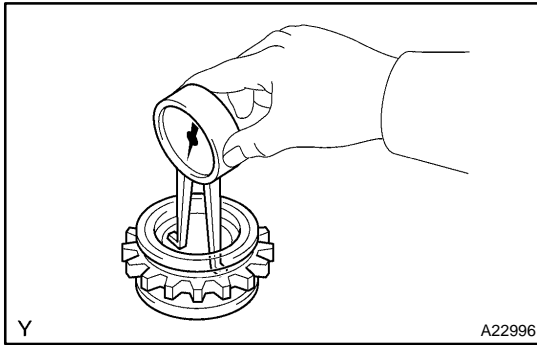
The vernier caliper must contact the chain rollers for the measuring.

If the diameter is less than the minimum, replace the No. 1 chain and idle gear.

**6. INSPECT IDLE GEAR SHAFT OIL CLEARANCE**

- (a) Using a micrometer, measure the idle gear shaft diameter.

Idle gear shaft diameter:
22.987 to 23.000 mm (0.9050 to 0.9055 in.)



- (b) Using a caliper gauge, measure the inside diameter of the idle gear.

Idle gear inside diameter:

23.02 to 23.03 mm (0.9063 to 0.9067 in.)

- (c) Subtract the idle gear shaft diameter measurement from the idle gear inside diameter measurement.

Standard oil clearance:

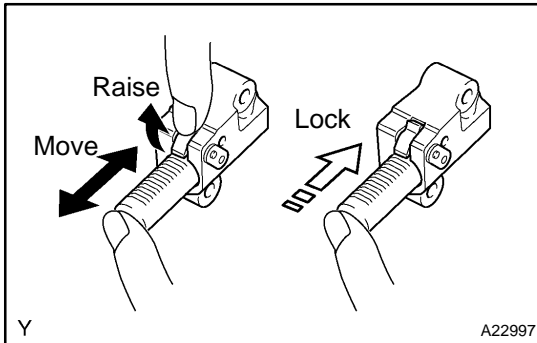
0.020 to 0.043 mm (0.0008 to 0.0017 in.)

Maximum oil clearance:

0.093 mm (0.0037 in.)

7. INSPECT CHAIN TENSIONER NO.1

- (a) Check that the plunger moves smoothly when the ratchet pawl is raised with a finger.
- (b) Release the ratchet pawl and check that the plunger is locked in place by the ratchet pawl and does not move when pushing with a finger.

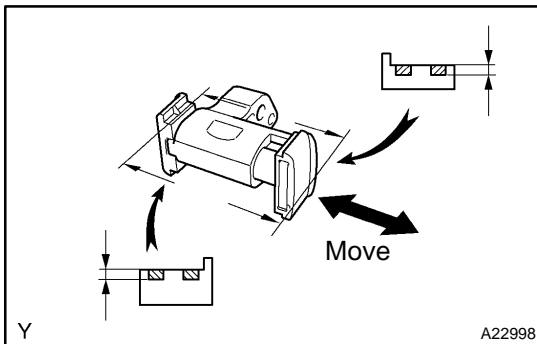


8. INSPECT CHAIN TENSIONER NO.2

- (a) Check that the plunger moves smoothly.
- (b) Measure the worn depth of the chain tensioner slipper.

Maximum depth: 1.0 mm (0.039 in.)

If the depth is greater than the maximum, replace the chain tensioner No. 2.

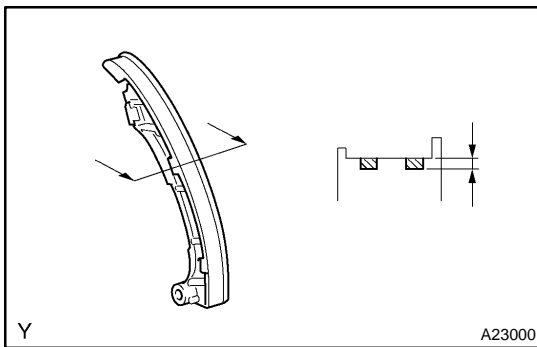


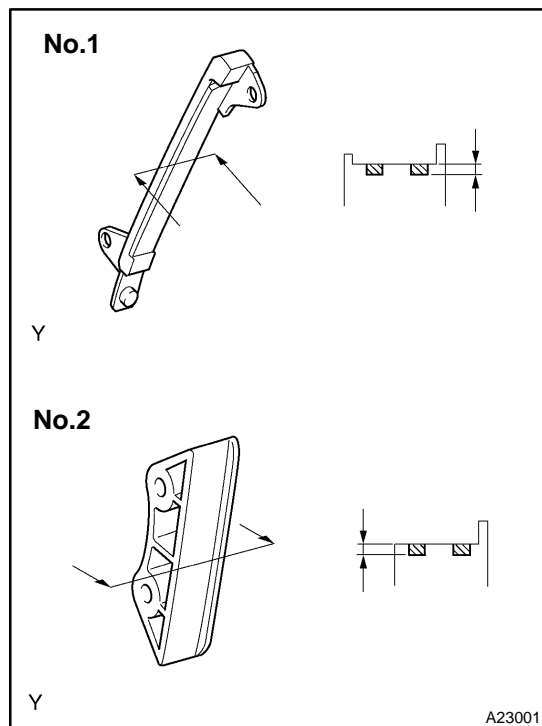
9. INSPECT CHAIN TENSIONER SLIPPER

Measure the worn depth of the chain tensioner slipper.

Maximum depth: 1.0 mm (0.039 in.)

If the depth is greater than the maximum, replace the chain tensioner slipper.





10. INSPECT CHAIN VIBRATION DAMPER NO.1 AND NO.2

Measure the worn depth of the chain vibration damper No. 1 and No. 2.

Maximum depth: 1.0 mm (0.039 in.)

If the depth is greater than the maximum, replace the chain vibration damper No. 1 or No.2.