

1D

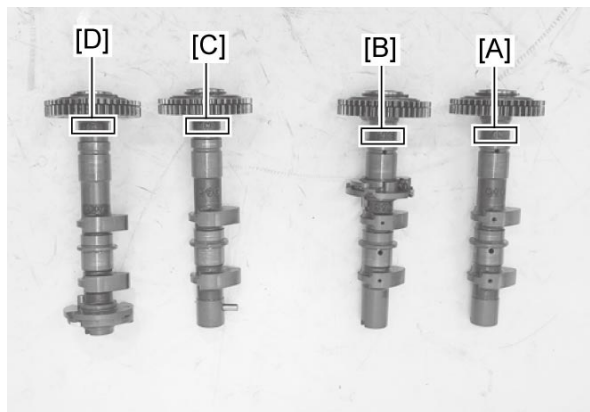


## Camshaft Inspection

Refer to [Camshaft Removal](#) and [Camshaft Installation](#).

### Camshaft Identification

The camshafts can be identified by the embossed letter.



[A]:	INF (Front cylinder intake camshaft)
[B]:	EXF (Front cylinder exhaust camshaft)
[C]:	INR (Rear cylinder intake camshaft)
[D]:	EXR (Rear cylinder exhaust camshaft)

### Cam Wear

Check the camshaft for wear or damage.

Measure the cam height "a" with a micrometer.

Replace a camshaft if the cams are worn to the service limit.

#### Special Tool

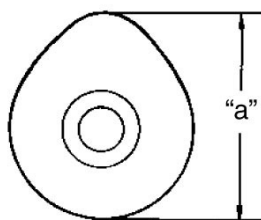
**09900-20202**

#### Cam height (IN.)

**Service limit: 35.98 mm (1.417 in)**

#### Cam height (EX.)

**Service limit: 35.38 mm (1.393 in)**





## Camshaft Journal Wear

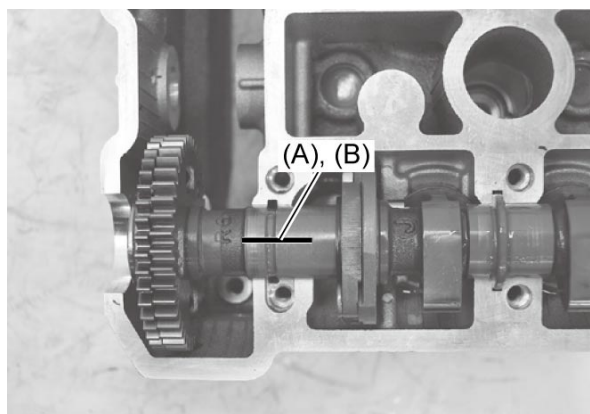
Refer to [Cam Chain Tension Adjuster / Cam Chain Tensioner / Cylinder Head Assembly / Cam Chain Guide / Cylinder Removal](#) and [Cam Chain Tension Adjuster / Cam Chain Tensioner / Cylinder Head Assembly / Cam Chain Guide / Cylinder Installation](#).


- 1) Determine whether or not each journal is worn down to the limit by measuring the oil clearance with the camshaft installed in place.
- 2) Measure the clearance at the widest portion with the special tool.

### Special Tool

(A): [09900-22301](#)

(B): [09900-22302](#)



- 3) Install camshaft journal holder and tighten the camshaft journal holder bolts evenly and diagonally to the specified torque. 

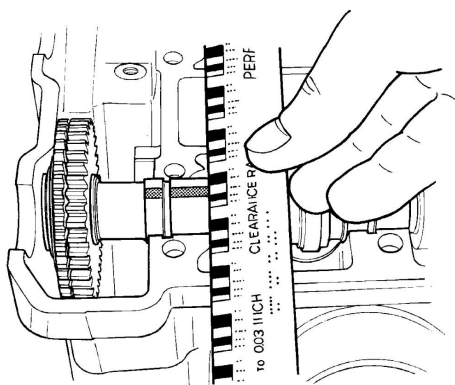
### NOTE:

**Do not rotate the camshaft with the plastigage in place.**

- 4) Remove the camshaft journal holder and measure the width of the compressed plastigage using the envelope scale.
- 5) This measurement should be taken at the widest part of the compressed plastigage.

### Camshaft journal oil clearance (IN. & EX.)

**Service limit: 0.150 mm (0.0059 in)**





- 6) If the camshaft journal oil clearance exceeds the limit, measure the inside diameter of the camshaft journal holder and the outside diameter of the camshaft journal. Replace the camshaft or the cylinder head depending upon which one exceeds the specification.

**Special Tool**

(A): **09900-20602**

(B): **09900-22403**

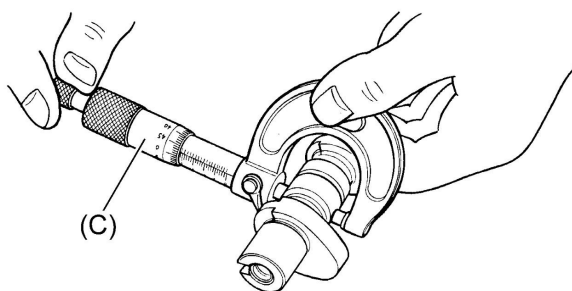
(C): **09912-66310**

**Camshaft journal holder I.D. (IN. & EX.)**

**Standard: 22.012 – 22.025 mm (0.8666 – 0.8671 in)**

**Camshaft journal O.D. (IN. & EX.)**

**Standard: 21.972 – 21.993 mm (0.8650 – 0.8659 in)**



## Camshaft Runout

Measure the runout using the dial gauge. Replace the camshaft if the runout exceeds the limit.

**Special Tool**

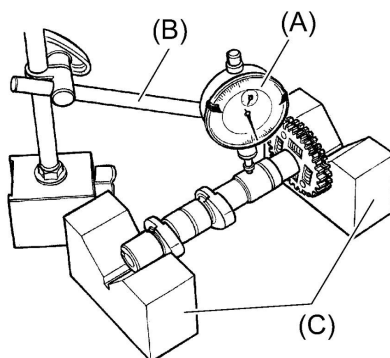
(A): **09900-20607**

(B): **09900-20701**

(C): **09900-21304**

**Camshaft runout (IN. & EX.)**

**Service limit: 0.10 mm (0.004 in)**



## Camshaft Sprocket

Inspect the teeth of each camshaft sprocket for wear or damage.

If they are worn or damaged, replace the camshaft assembly and cam chain as a set.



## Automatic Decompression

### **NOTICE:**

**Do not attempt to disassemble the automatic-decomp. assembly. They are unserviceable.**

Inspect the automatic-decomp. for damage and smooth operation.

If any defects are found, replace the camshaft assembly.



