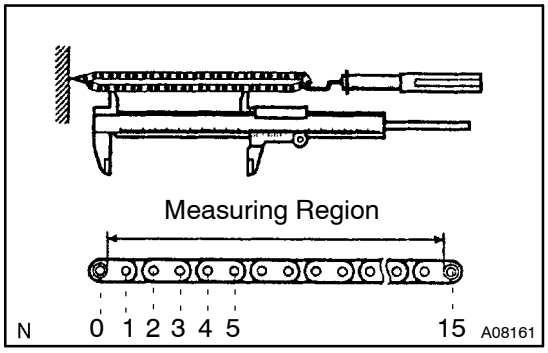
EM10N–01

INSPECTION



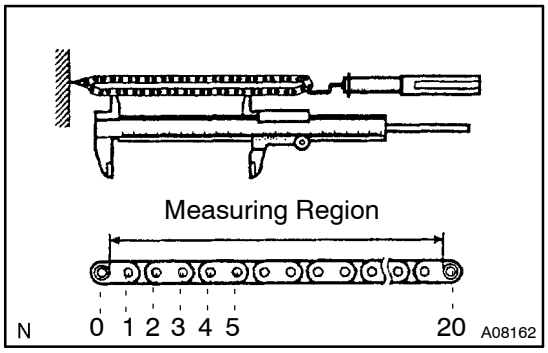
1. INSPECT CHAIN

When applying a 140 N (14.3 kgf, 31.5 lbf) force by using a spring balance, measure the length of the timing chain.

Limit 137.8 mm (5.425 in.)

NOTICE:

Measure the chain length at 3 positions and obtain a mean value for judgment.



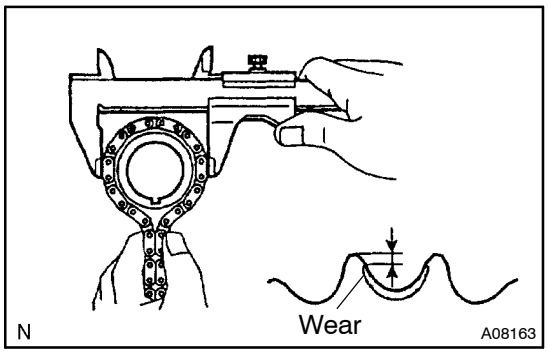
2. INSPECT CHAIN NO.2

When applying a 100 N (10.2 kgf, 22.5 lbf) force by using a spring balance, measure the length of the timing chain.

Limit 137.3 mm (5.406 in.)

NOTICE:

Measure the chain length at 3 positions and obtain a mean value for judgment.



3. INSPECT CRANKSHAFT TIMING SPROCKET LH

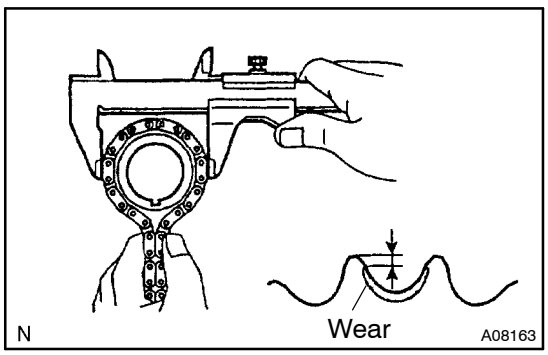
(a) Measure the length from the end of the sprocket to the beginning of wear.

If the measured value is less than the limit, replace the sprocket. In case of slight friction or unclearness, install the chain on the sprocket and measure the external diameter for judgment.

Limit 1.0 mm (0.039 in.)

(b) Install the chain on the sprocket and measure the external diameter of the sprocket (chain roller).

Limit 68.1 mm (2.681 in.)



4. INSPECT CRANKSHAFT TIMING GEAR

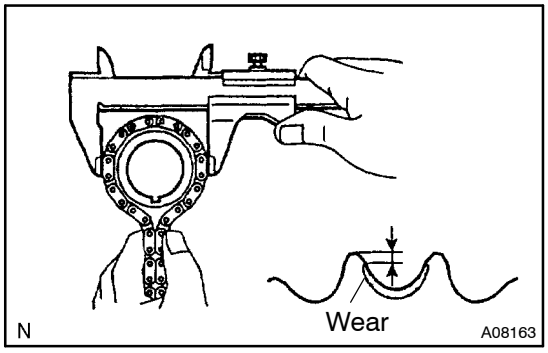
(a) Measure the length from the end of the timing gear to the beginning of wear.

If the measured value is less than the limit, replace the gear. In case of slight friction or unclearness, install the chain on the timing gear and measure the external diameter for judgment.

Limit 1.0 mm (0.039 in.)

(b) Install the chain on the timing gear and measure the external diameter of the timing gear (chain roller).

Limit 68.1 mm (2.681 in.)



5. INSPECT OIL PUMP DRIVE GEAR

(a) Measure the length from the end of the drive gear to the beginning of wear.

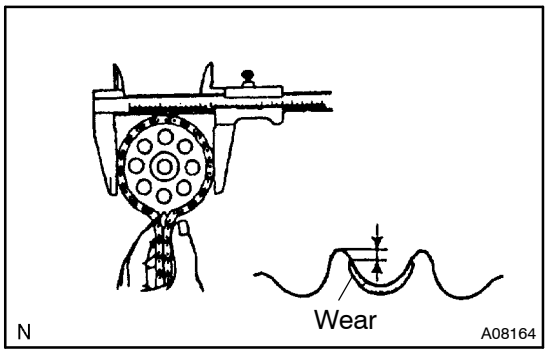
If the measured value is less than the limit, replace the drive gear.

In case of slight friction or unclearness, install the chain on the drive gear and measure the external diameter for judgment.

Limit 1.0 mm (0.039 in.)

(b) Install the chain on the drive gear and measure the external diameter of the drive gear (chain roller).

Limit 63.0 mm (2.677 in.)



6. INSPECT OIL PUMP DRIVE SHAFT GEAR

(a) Measure the length from the end of the drive shaft gear to the beginning of wear.

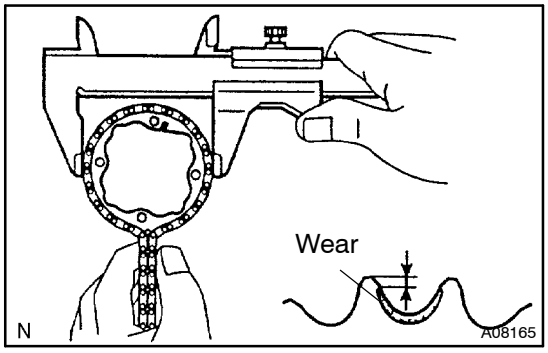
If the measured length is less than the limit, replace the drive shaft gear.

In case of slight friction or unclearness, install the chain on the drive shaft gear and measure the external diameter for judgment.

Limit 1.0 mm (0.039 in.)

(b) Install the chain on the drive shaft gear and measure the external diameter of the drive shaft gear (chain roller).

Limit 71.8 mm (2.827 in.)



7. INSPECT CAMSHAFT TIMING GEAR

(a) Measure the length from the end of the timing gear to the beginning of wear.

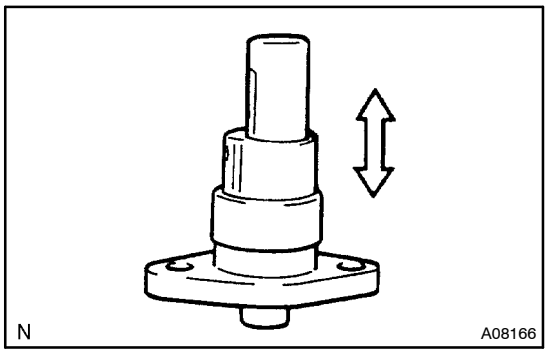
If the measured value is less than the limit, replace the timing gear.

In case of slight friction or unclearness, install the chain on the timing gear and measure the external diameter for judgment.

Limit 1.0 mm (0.039 in.)

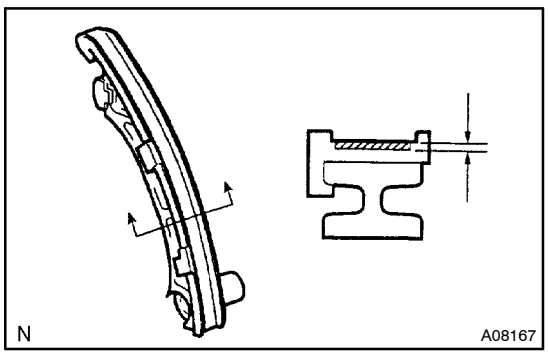
(b) Install the chain on the timing gear and measure the external diameter of the timing gear (chain roller).

Limit 132.0 mm (5.197 in.)



8. INSPECT CHAIN TENSIONER NO.1

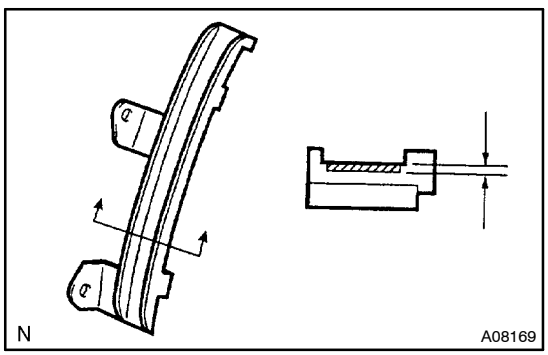
Push the tensioner with a finger. At that time, check that the tensioner can move smoothly.



9. INSPECT CHAIN TENSIONER SLIPPER

Measure the thickness of the tensioner slipper with vernier calipers.

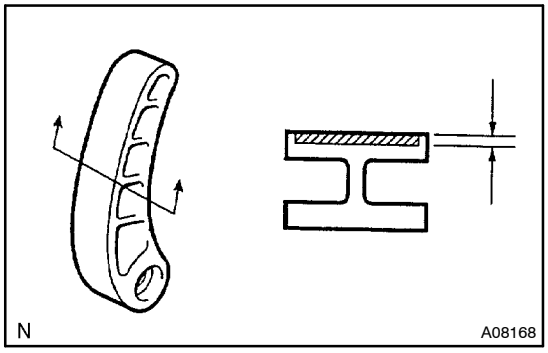
Limit 1.0 mm (0.039 in.)



10. INSPECT CHAIN VIBRATION DAMPER NO.1

Measure the thickness of the damper with vernier calipers.

Limit 1.0 mm (0.039 in.)



11. INSPECT TENSIONER PLATE

Measure the thickness of the plate with vernier calipers.

Limit 1.0 mm (0.039 in.)