

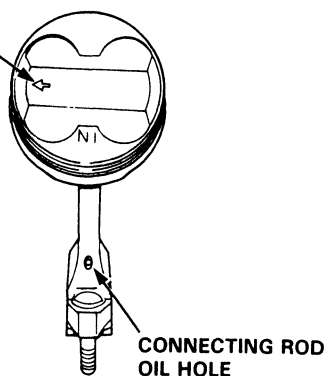


## Piston Rings

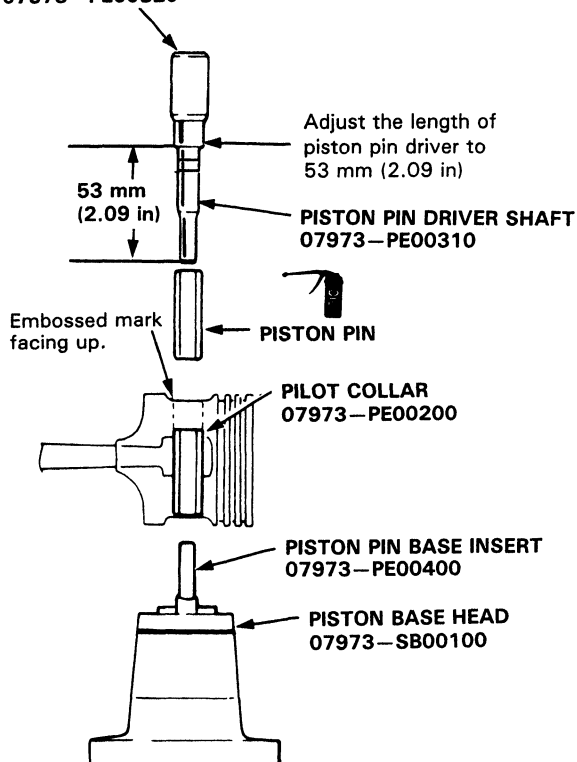
### Installation

- Use a hydraulic press for installation.
  - When pressing pin in or out, be sure you position the recessed flat on the piston against the lugs on the base attachment.

The arrow must face the timing belt side of the engine and the connecting rod oil hole must face the rear of the engine.



**PISTON PIN DRIVER HEAD**  
07973-PE00320



**NOTE:** Install the assembled piston and rod with the oil hole facing the rear of the engine.

### End Gap

- Using a piston, push a new ring into the cylinder bore 15–20 mm (0.6–0.8 in.) from the bottom.
- Measure the piston ring end-gap with a feeler gauge:
  - If the gap is too small, check to see if you have the proper rings for your engine.
  - If the gap is too large, recheck the cylinder bore diameter against the wear limits on page 7-13. If the bore is over limit, the engine block must be rebored.

#### Piston Ring End-Gap:

##### Top Ring

**Standard (New):** 0.15–0.30 mm  
(0.006–0.012 in)  
**Service Limit:** 0.60 mm (0.024 in)

##### Second Ring

**Standard (New):** 0.30–0.45 mm  
(0.012–0.018 in)  
**Service Limit:** 0.70 mm (0.028 in)

##### Oil Ring

**Standard (New):** 0.2–0.7 mm (0.008–0.028 in)  
**Service Limit:** 0.80 mm (0.032 in)

