

**Remove Connecting Rod and Piston Pin**  
Model Series 21A800, 21B800, 284H00,  
285H00, 286H00, 28AH00, 28BH00, 28CH00,  
28P700, 28Q700, 28U700, 28W700, 28S700,  
287700, 31E700, 31F700, 31G700, 31J700,  
31K700, 31L700, 31M700, 204400, 205400,  
28N700, 310700, 311700, 312700, 313700  
Current Production

1. Rotate piston pin retainer (6) until one end is exposed in the notch (7) of the piston pin bore, Fig. 4.
2. Grasp end of piston pin retainer with needle nose pliers. Pull in and up to remove retainer.
3. Push piston pin out from other side.

**Remove Piston Rings**

All

Remove piston rings using Piston Ring Expander, Tool #19340, Fig. 5.

**NOTE:** Some oil control rings consist of two thin steel rails and a spring expander. The steel rails cannot be removed with Tool #19340.

1. Grasp one end of the steel rail and wind the rail from the oil ring groove into the next ring groove.
2. Repeat into the top ring groove and off the piston.

**Check Piston Ring Groove Wear**

1. Clean carbon from top ring groove.
2. Place a NEW ring (8) in groove, Fig. 6 and measure space between ring and ring land, Table No. 1, page 9.

**Check Piston Ring End Gap**

1. Clean all carbon from the end of the rings, and from the cylinder bore.
2. Insert old rings (9) one at a time one inch down into the cylinder, Fig. 7.
3. Check end gap with feeler gauge (10).
4. If ring gap is greater than shown in Table No. 2, page 9, the ring should be rejected.

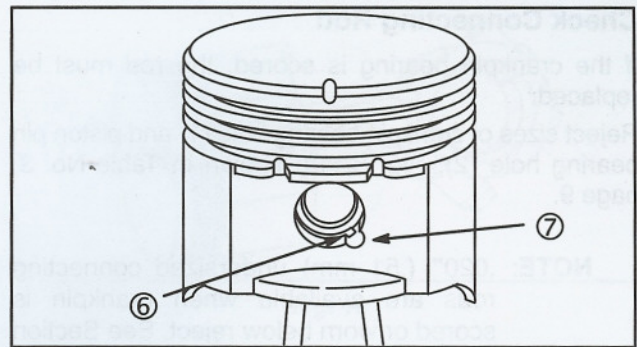


Fig. 4

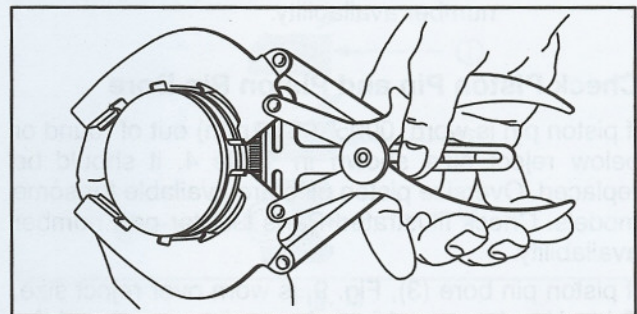


Fig. 5

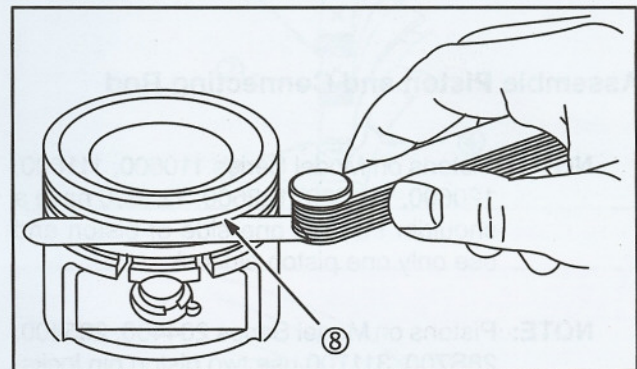


Fig. 6

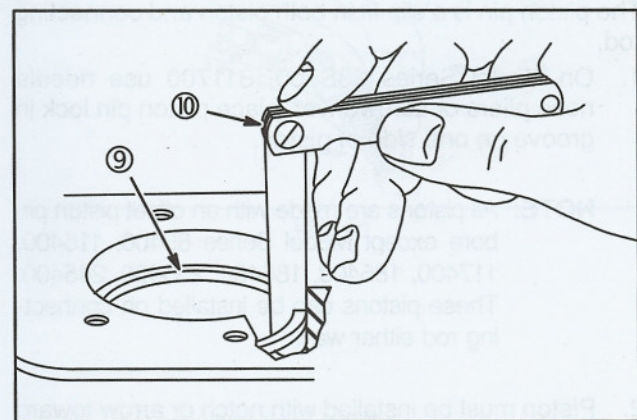


Fig. 7