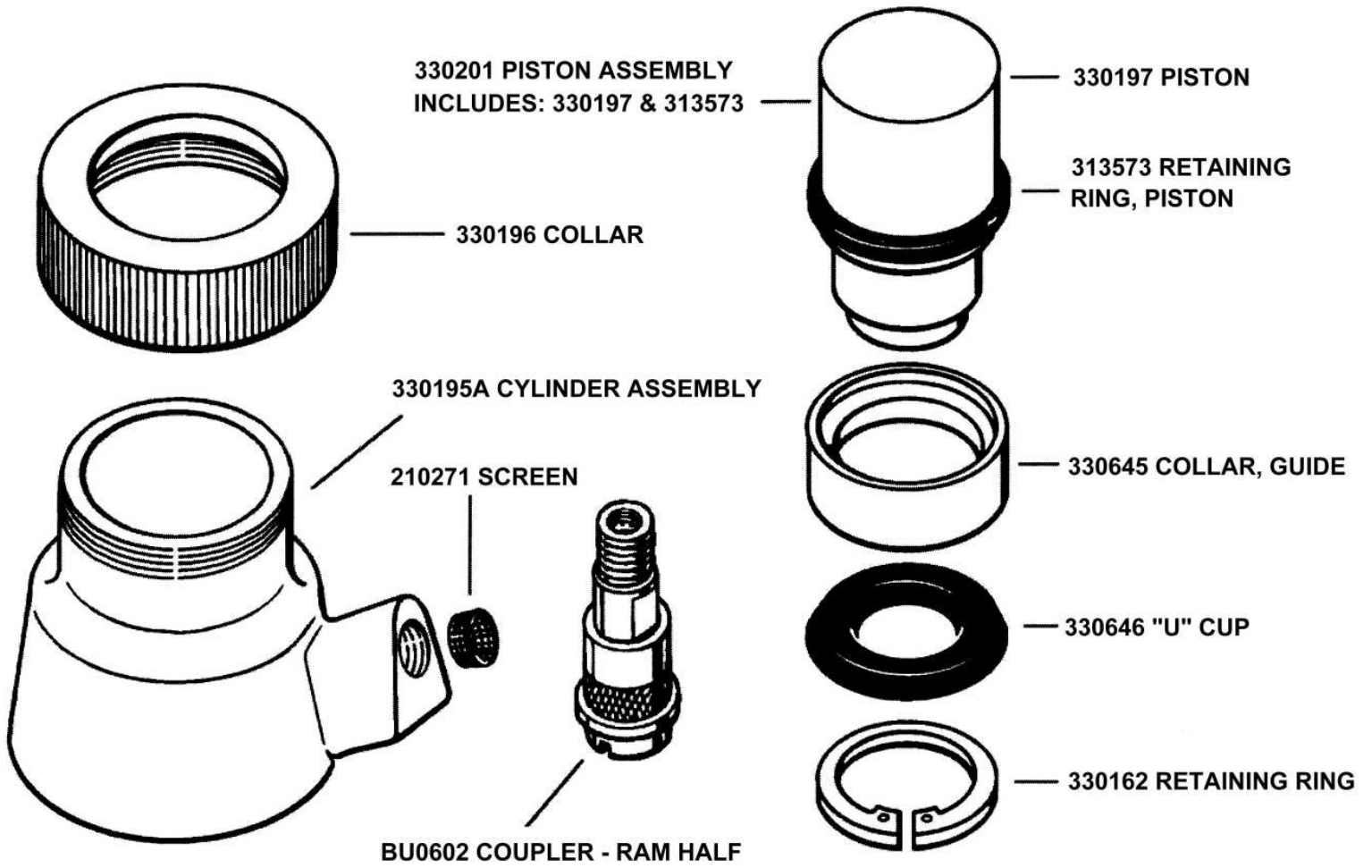


SM0014 - Speed-Midget 4 Ton Extra Short Hydraulic Ram



SM0014 4-TON EXTRA SHORT RAM SERVICE INSTRUCTIONS

DISASSEMBLE:

- 1) Collapse to lowest position and remove ram half coupler (BU0602).
- 2) Remove screen (210271) from hose hole.
- 3) Remove upper collar bearing (330196)
- 4) Grasp end of piston (330201) in a smooth vise with hose hole on cylinder facing up.
- 5) Work cylinder (330195) off piston.
- 6) With retaining ring pliers, remove packing retaining ring (330162).
- 7) In succession, remove "U" cup (330646) and ram guide collar (330645).

REASSEMBLE:

- 1) Check cylinder (330195) and guide collar (330645) for scoring and fit. Check all metal parts for wear, burrs or damage.
- 2) Thoroughly clean all metal parts.
- 3) Assemble guide collar (330645) to piston (330201). *Make sure recess in guide collar is toward retaining ring (313573) on piston.*
- 4) Place "U" cup (330646) with flat side against guide collar on piston.
- 5) With retaining ring pliers place retaining ring (330162) in groove on end of piston.
- 6) Coat outer race of guide collar and "U" cup with medium consistency, high temperature, bearing grease and insert piston assembly into cylinder until it reaches bottom.
- 7) Apply a drop or two of thread adhesive, screw on upper collar bearing (330196) and tighten by hand. *Do not use a permanent thread adhesive.*
- 8) Insert screen (210271) into hose hole.
- 9) Apply thread sealant to ram half coupler (BU0602) and screw into hose hole. Be careful to avoid mixing sealant with hydraulic fluid by skipping the first three threads of the inserted portion of the coupler. Tighten securely.
- 10) Attach ram to pump and test for leaks and operation.