

OPERATOR'S MANUAL

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

RELEASED: 5-17-96

REVISED: 1-11-01

(REV. B)

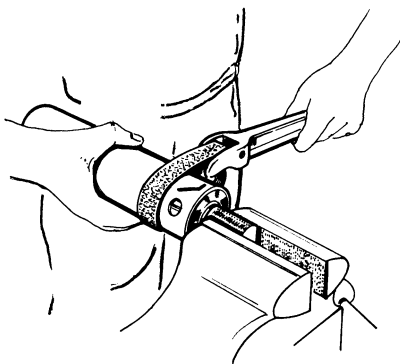
MQ2829, MQ2829-() & MQ3084



**READ THIS MANUAL CAREFULLY BEFORE INSTALLING,
OPERATING OR SERVICING THIS EQUIPMENT.**

DISASSEMBLY

1. Clamp head by nose or tang flats, with port in a vertical position at top of cylinder. Remove all fittings, rotate the barrel with a strap wrench one full turn. Locking wire will feed out of slot during turning. At the completion of revolution, remove retaining wire, wiggle barrel and slide from head.



2. Clamp the centerbody and remove the front barrel with a strap wrench (as in step 1).
3. Extend the rod and remove the "U" cup seals from the piston. Hold the flats on the rod end and the flats on the rod behind the piston. Unscrew the rods from each other and remove the front piston. It will be necessary to heat the joint with a torch.
4. Remove the centerbody, as in step 1.
5. Remove the rear piston / rod assembly. Do not disassemble them unless they are damaged.
6. Remove the cushion adjustment screws.
7. Remove the rear barrel, as in step 1.
8. Remove the snap ring and brass insert from the centerbody.
9. All metal parts should be cleaned with a non-flammable solvent. All rubber parts should be thoroughly washed with soap and water. Cleaned parts should be rinsed and dried with low pressure air. Any parts which are worn or damaged should be replaced. Selected parts and seals are available in repair kit.

ASSEMBLY

1. Verify that all seals are in the correct position and that the rod and piston seals are properly lubricated with Parker O-lube grease, or equivalent.
2. Clamp the cap by the tang flats. Align the port and hole in the rear barrel. Insert the retaining wire tab in the hole in the head in the feed slot. Rotate the barrel with a strap wrench clockwise one revolution, until the port and the hole align; the retaining ring will feed as the barrel turns.
3. If the rear piston and rod were disassembled, they must be reassembled as follows: Degrease the inside diameter of the piston and the threads of the rod and nut with isopropyl alcohol and allow them to completely air dry. Apply Loctite activator to the inside of the piston and all threads and allow them to dry. Apply a 1/8" wide bead of Loctite 271 around the shank of the rod. Slide the piston onto the rod. Apply Loctite 271 in three equally spaced 1/16" wide beads axially across the threads on the rod. Install the nut and torque to 10 - 15 ft lbs.
4. Slide the rear piston / rod assembly into the rear barrel.
5. Install the brass insert and its seals and snap ring in the centerbody.
6. Install the centerbody and its retaining wire, as in step 2.
7. Assemble the front piston and front rod to the rear rod, with Loctite, as in step 3.
8. Install the front barrel, as in step 2.
9. Slide the head over the rod, being sure not to damage the seal in the head. Clamp the head by the nose flats and install the retaining wire, as in step 2.

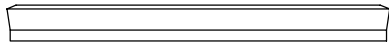
TESTING AFTER REPAIR

1. Supply 90 p.s.i. air to the rear cap port. No audible leakage permitted.
2. Supply 90 p.s.i. air to the second port from the rear. No audible leakage permitted.
3. Supply 20 p.s.i. air to the rear cap port. The rod should extend smoothly.
4. Supply 20 p.s.i. air to the second port from the rear. The rod should retract smoothly.
5. Supply 90 p.s.i. air to the third port from the rear. Apply soap solution to center head barrel seal and bleed hole. No bubbles are permitted.
6. Reduce pressure to 10 p.s.i. Repeat the leak test.
7. Supply 90 p.s.i. air to the fourth port from the rear. Apply soap solution to rod seal and barrel seal. No bubbles are permitted.
8. Reduce pressure to 10 p.s.i. Repeat the leak test.

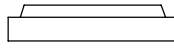


MP2829-20 REPAIR KIT

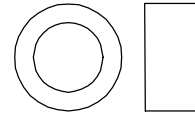
This kit repairs model MQ2829 cylinders only.



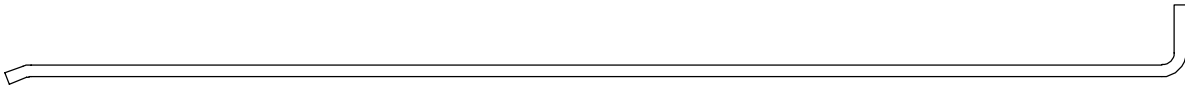
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95-14



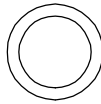
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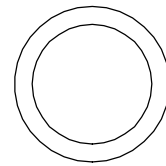
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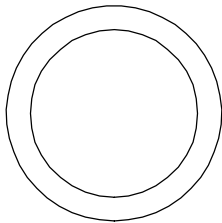
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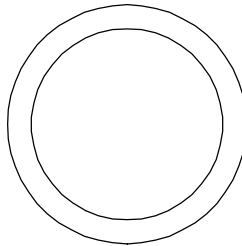
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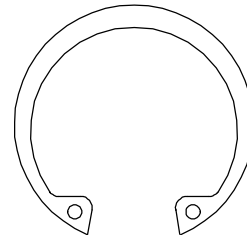
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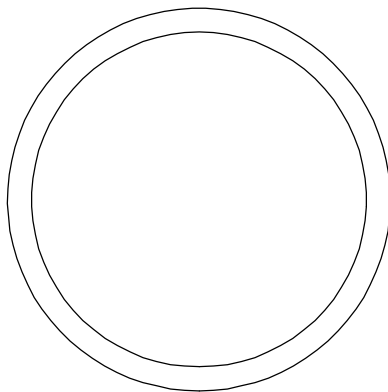
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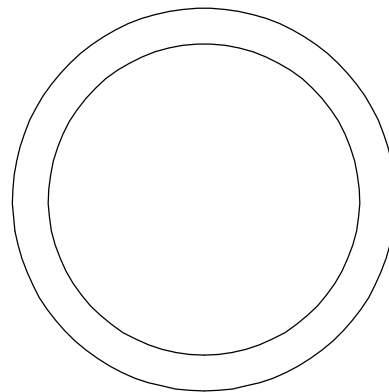
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Y147-112-S

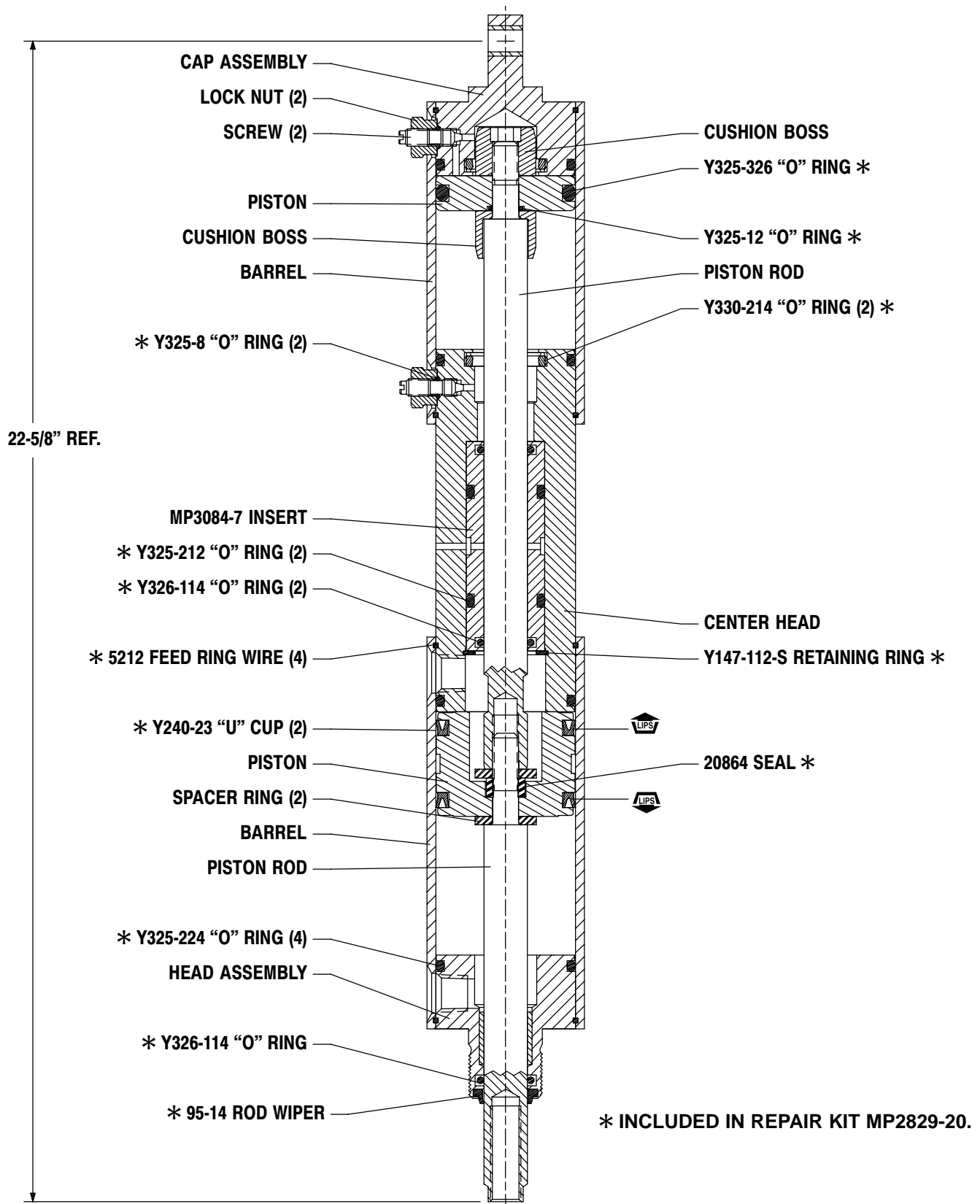


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Y325-326

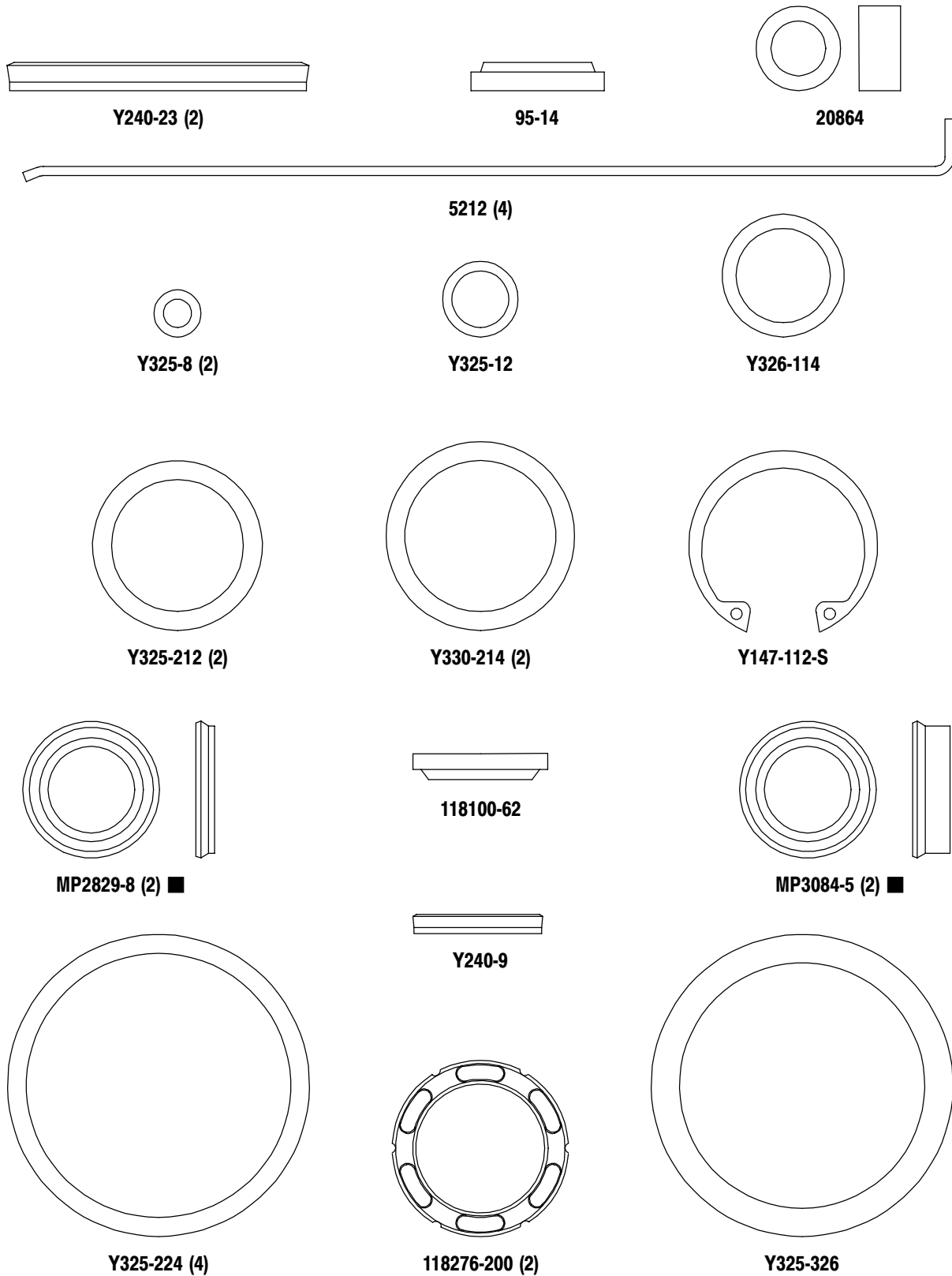
MODEL MQ2829



NOTE: The cylinder may be upgraded to model MQ2829-2 by installing insert MP3084-7 and repair kit MP2829-30.

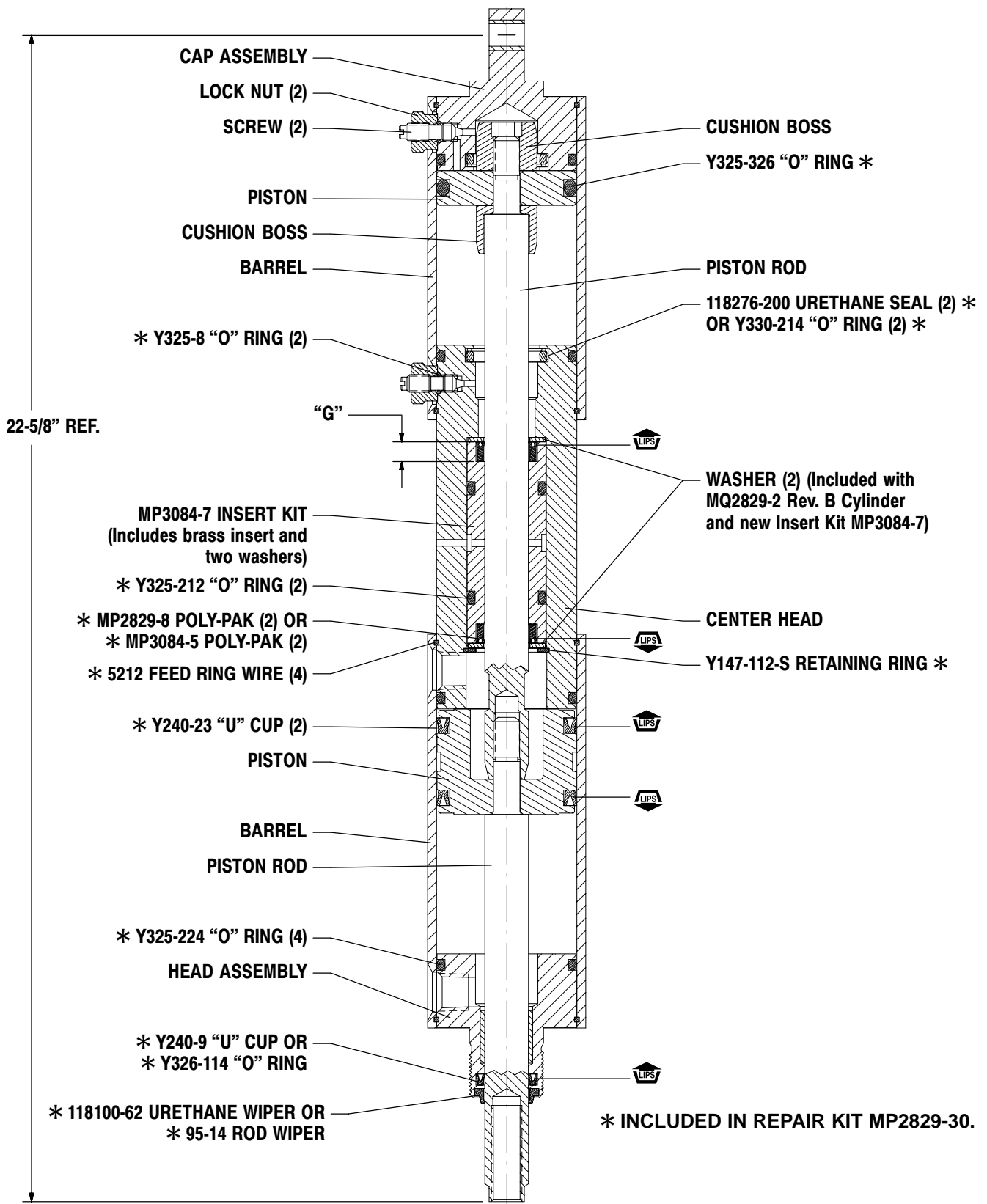
MP2829-30 REPAIR KIT

This kit repairs model MQ2829-1 and MQ2829-2 cylinders only.



■ If groove “G” width is 1/8”, use part MP2829-8.
 If groove “G” width is 1/4”, use part MP3084-5.

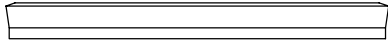
MODELS MQ2829-1 & MQ2829-2



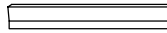
NOTE: If groove width "G" on insert is 1/8", install MP2829-8 seals. If groove width "G" is 1/4", install MP3084-5 seals. To upgrade cylinders with 1/8" grooves, install insert kit MP3084-7 and seals MP3084-5.

MP3084-20 REPAIR KIT

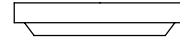
This kit repairs model MQ3084 cylinders only.



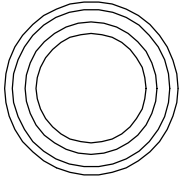
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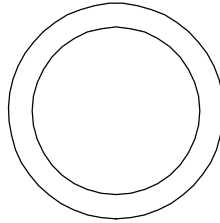
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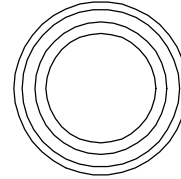
118100-62



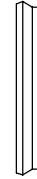
MP3084-5 (2) ■



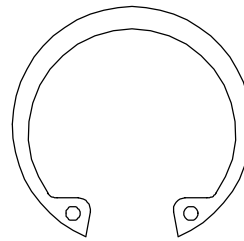
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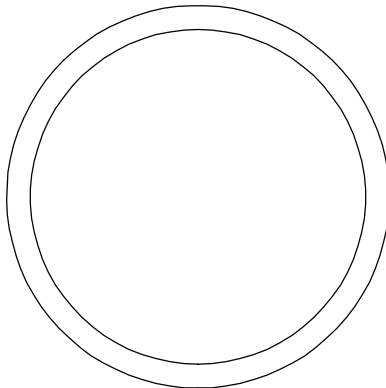
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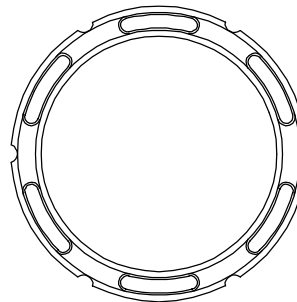
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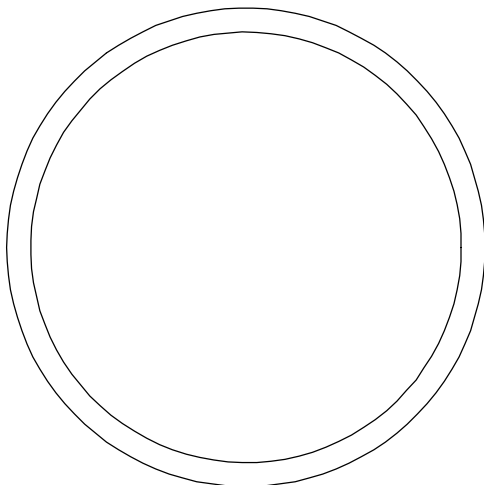
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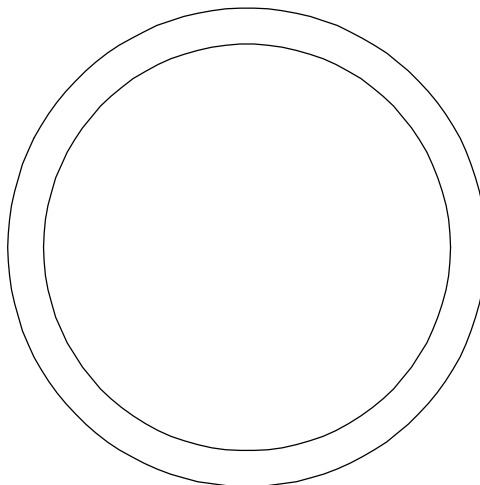
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118276-250 (2)



Y325-228 (2)



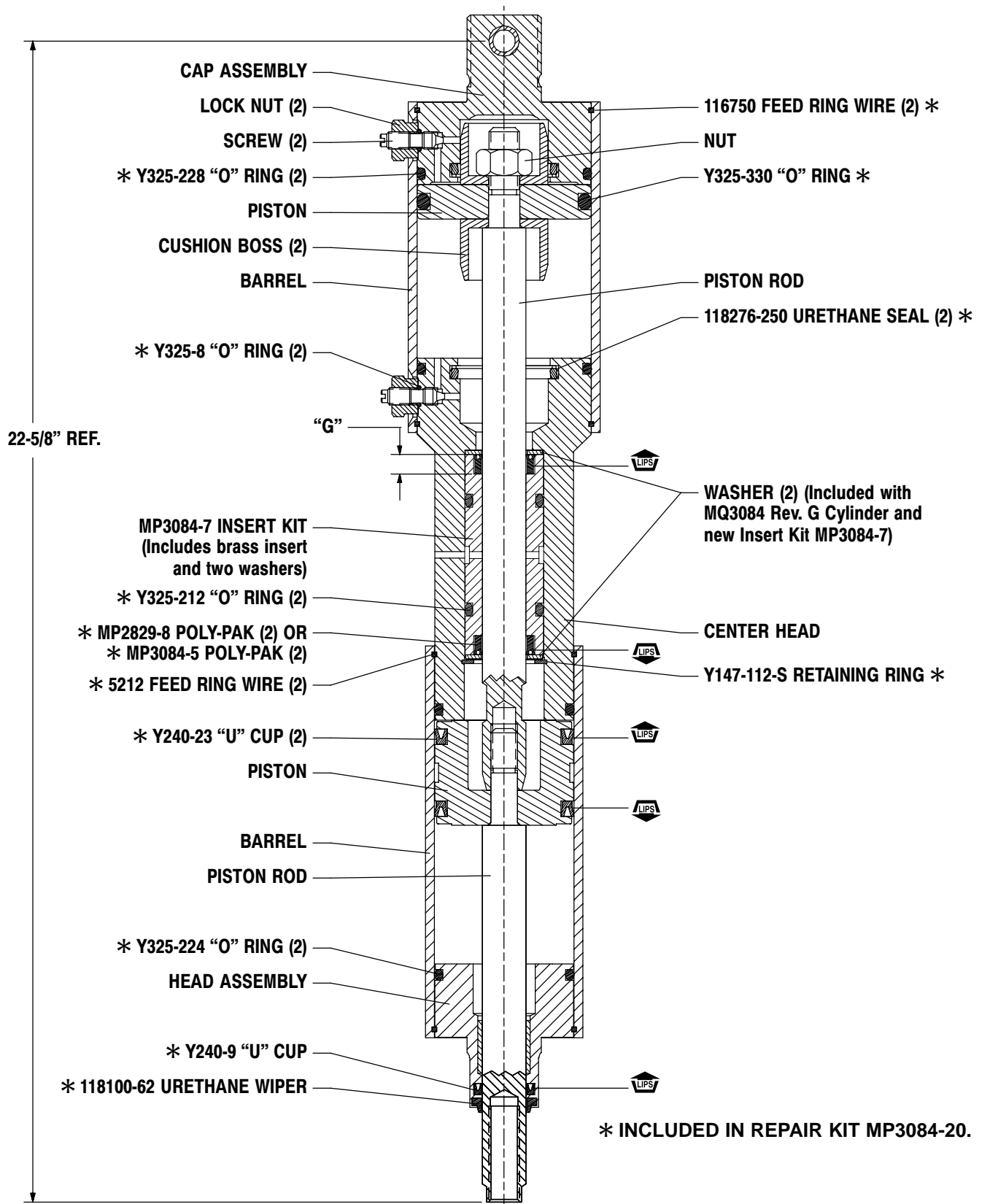
Y325-330

116750 (2)

■ If groove "G" width is 1/8", use part MP2829-8.
If groove "G" width is 1/4", use part MP3084-5.

5212 (2)

MODEL MQ3084



NOTE: If groove width "G" on insert is 1/8", install MP2829-8 seals. If groove width "G" is 1/4", install MP3084-5 seals. To upgrade cylinders with 1/8" grooves, install insert kit MP3084-7 and seals MP3084-5.

