



RSS REPAIR INSTRUCTIONS (for bores 1-1/2" to 4")

The cylinder is made to be disassembled from the rod end only. To do this, secure the rod guide and loosen the body using a strap wrench or similar device. With the rod guide removed, the body seal, rod wiper, rod seal, rod bearing, and cushion seal (if present) can be removed and discarded. Care should be taken not to scratch the sealing surfaces. The piston-rod assembly can then be removed from the rear head-body assembly. Both piston seals and the cushion retaining rings (if present) can then be removed and discarded with the bearing strip and/or the retract cushion seal (if present). The rear head should not generally need to be removed.

All parts should be thoroughly cleaned and examined for wear. Before installation, all seals should be lubed. The piston seals are installed with the cavities facing away from each other. The cushion seal (if needed) is installed with the cavity facing the piston and retained under the washer with a new retaining ring. The two pieces of the retaining ring snap together in the groove. If used, the wear strip is installed next between the piston seals. The piston-rod assembly can then be inserted into a well-lubed body tube. Care should be taken not to damage the seal on the body threads.

The bore of the rod guide should be lubed before the new rod bearing is pressed in. This is done from the front side of the rod guide and, when fully in place, should be flush with the back side of the wiper groove. The rod seal can then be inserted beneath the rod bearing with the cavity facing the piston. The wiper is then installed in its groove. Finally, the body seal should be inserted in the groove on the threaded end of the rod guide.

Before threading the rod guide into the body, the threads should be lubricated. Carefully, slide the rod guide over the rod end ensuring that the seal engages its mating surfaces correctly. Secure the rod guide and begin threading the body onto the rod guide. Torque the body on the rod guide according to Table 1 with a strap wrench or similar device.

TABLE 1

Bore Size (in.)	Torque (ft.-lbs.)
1-1/2"	35
2"	45
2-1/2"	55
3-1/4"	70
4"	80

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