

Service Bulletin: MART Power Washer

MART Tech Services

How to Inspect & Adjust your PBM Rotary Swivel

The Power Blast Manifold (PBM) is a core part of a MART Washer. It is critical to maintain the operation of your PBM for optimum cleaning results. The key piece of equipment in the PBM is the "swivel". This device allows the manifold to oscillate and still maintain a water seal. Swivels are some times called "rotary unions". Maintenance of your swivel is easily accomplished with these two tasks:

1. Inspect your PBM swivel to be sure it is rotating freely.
2. Grease your swivel at the end of every 8 hour shift with [Lubriplate 1444](#) grease. Greasing the swivel is one of the critical four daily maintenance tasks to keep your washer operating at peak performance.

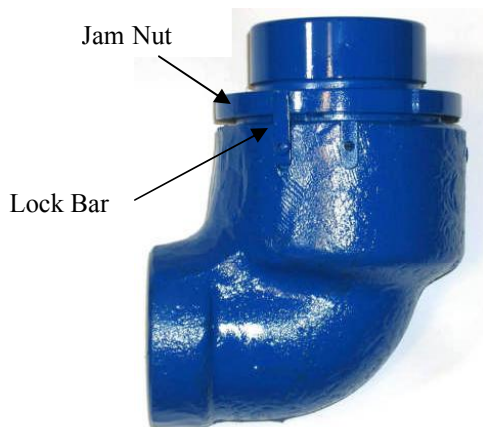


Fig. Packing Style Swivel with Jam Nut Swivel

Packing Style Swivel Inspection procedure:

Earlier model swivels utilized a Jam nut and Packing seal. Follow this inspection and adjustment procedure if you have a swivel with packing:

1. Turn the *main power supply OFF*.
2. Disconnect the *PBM linkage* from the *PBM upper bearing and shaft*.
3. Open the washer cabinet *door*.
4. Push the *manifold* back and forth. *If it does not move freely, adjust the jam nut. The jam nut is located on the swivel at the bottom of*

the PBM manifold. The swivel assembly allows for take-up of the packing after it wears.

5. Adjust the PBM swivel jam nut so that it swings freely, but is as tight as possible in order to prevent leaking around the joint:

To adjust the swivel, remove the lock bar. Screw the nut clockwise to the next locking slot or until compression on the packing causes the nipple to rotate with a mild amount of torque. Re-install the lock bar. You may repeat this process until the packing has worn too badly to keep a tight seal.



Fig. Non-adjustable Swivel

O-ring Style Swivel Inspection procedure:

[Late model swivels](#) have no packing and utilize a set of o-ring seals. To inspect these swivels look for the yellow colored flag mounted to the top of the PBM shaft. During a wash cycle verify that the flag is oscillating back and forth. If it is not you may need to replace your swivel. Disconnect the arm linkage and push the manifold back & forth. If it is hard to move replace the swivel.

For further information please contact
MART Tech Services from 8:00 AM to 5:00 PM
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week at www.marttechservices.com