

# Did You Know...

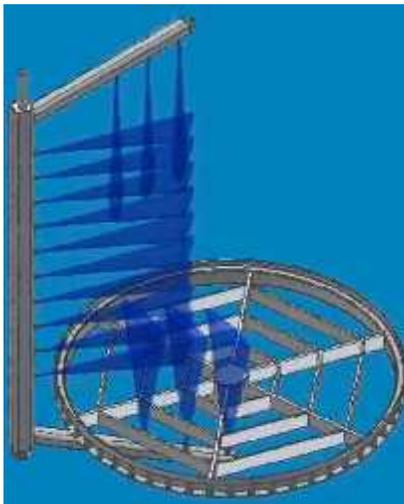
information you can use



## How to Make Certain you are Getting Top PBM Performance

The patented STINGRAY® Power Blast Manifold (PBM) is at the soul of the STINGRAY Parts Washer system. The PBM delivers the blasted energy from the Pump System into all the nooks and crannies of the wash load for incredibly thorough parts cleaning.

### **Here's how The STINGRAY PBM Works:**



As the Turntable rotates, the C-shaped PBM, blasting from the top down, bottom upwards and across the cabinet, pivots on its vertical axis, making a 46-degree sweep and return, every fifteen seconds, throughout the wash cycle. The speed of the

PBM is not synchronized to the rotational speed of the turntable so the load is blasted from a different angle each time it passes the nozzles. In a 15-minute wash cycle the nozzles hit the parts load from thousands of unique angles, attacking and cleaning the crevices and blind spots. To consistently achieve maximum parts cleaning performance, you must keep this feature fully functional.

### **Power Blast Manifold Oscillation Inspection:**

The PBM Drive Motor rotates a Crank-And-Arm Linkage that oscillates the PBM. Follow these instructions to check the PBM oscillation during the wash cycle:

During a wash cycle verify that the PBM shaft protruding through the roof of your washer is rotating. This shaft should move back and forth while the Wash Pump is operating. Observe the shaft carefully to verify oscillation. It is possible that the PBM Drive Linkage and Motor is cranking but the PBM shaft is remaining stationary. If oscillation is present then your manifold is operating correctly, if no oscillation is occurring then follow the troubleshooting section below to correct the problem.



STINGRAY Parts Washers have a highly reliable double bolt clamp design on the Long Arm as shown in the above photograph.

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(How to Make Certain You are Getting Top PBM Performance, continued)

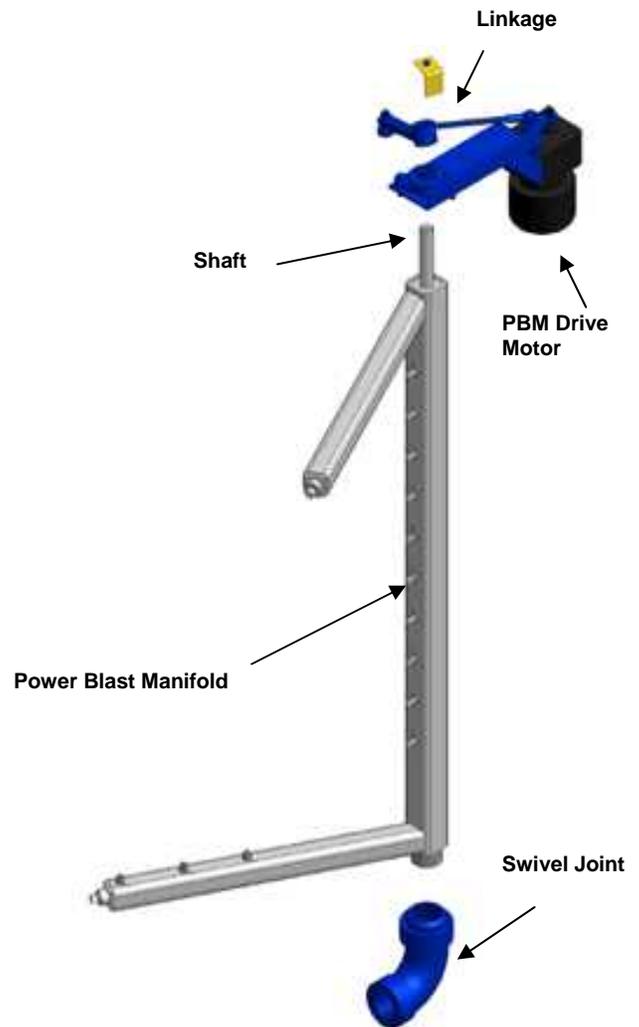
## ROTARY SWIVEL JOINT:

STINGRAY Engineering has developed an improved rotary swivel joint. The swivel has improved seals and does not require periodic adjustment of a packing gland nut.



## *Troubleshooting the Oscillation of the Power Blast Manifold*

If the shaft of your PBM is not oscillating, inspect the following items:



Inspect:	Defect	Action:
<a href="#">Cranking linkage</a>	Broken.	Replace linkage
<a href="#">Rotary swivel joint</a>	Frozen, Stuck, leaking	Replace swivel with new model
<a href="#">Crank shear pin</a>	Broken	Replace with crank arm
<a href="#">PBM drive motor</a>	Failed, stopped	Replace gear motor
<a href="#">PBM long arm</a>	Slipping	Replace with crank arm