

Service Bulletin: MART Power Washer

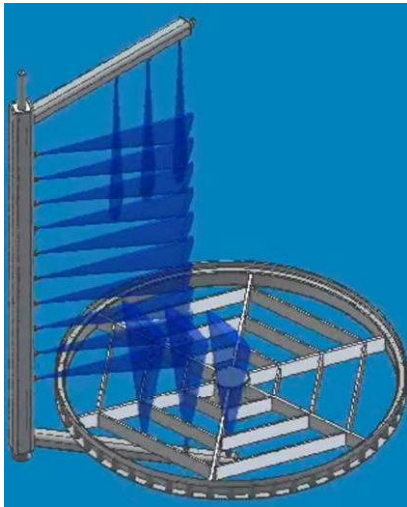
MART Tech Services

How to make certain you are Getting Top Performance:

The patented MART Power Blast Manifold (PBM) is at the soul of the MART Power Wash 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 MART 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.



LONG ARM CRANK:

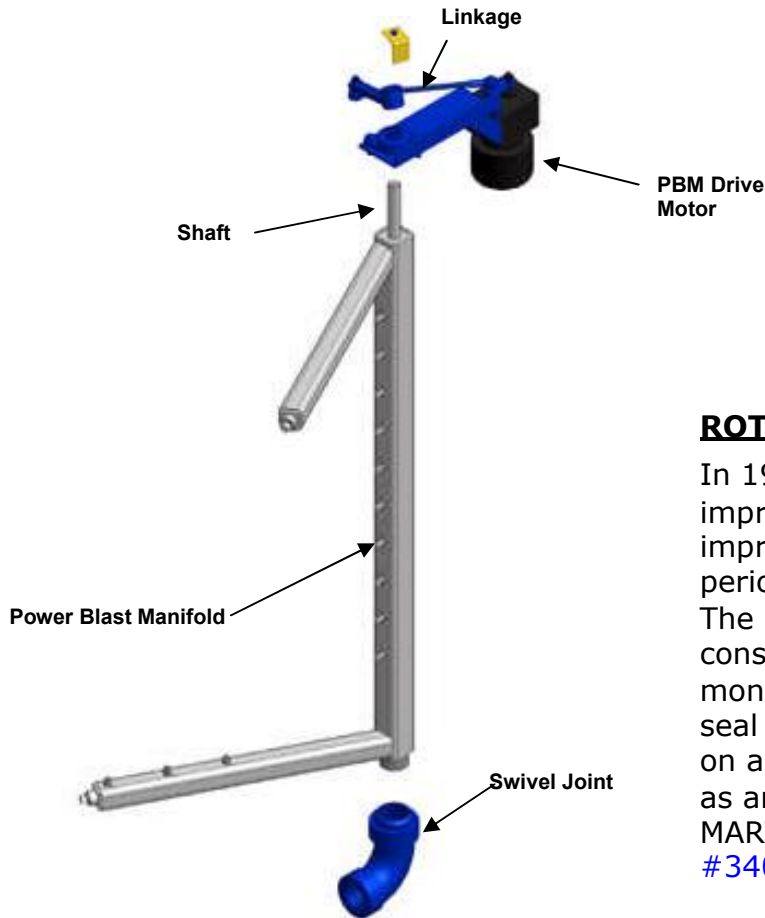
Earlier model MART washers use several different methods to lock the Long Arm of the cranking mechanism to the PBM shaft. Washers built before 1995 have a single fastener coupling. Machines made between 1995 and 2002 have a shear pin in the coupling. The latest MART Power Washers have a highly reliable double bolt coupling on the Long Arm as shown in the photograph. The double bolt coupling, #69295, eliminates the hassle of a failed shear pin and is easily retrofitted to any MART Power Washer.

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Troubleshooting the Oscillation of the Power Blast Manifold

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



ROTARY SWIVEL JOINT:

In 1999 MART Engineering developed an improved rotary swivel joint. The swivel has improved seals and does not require periodic adjustment of a packing gland nut. The new seals reduce the necessity to constantly grease to saving time and money. In 2005 a new improved polymer seal became available and is now standard on all swivels. The new swivel is available as an upgrade replacement item for any MART Power Washer. The new swivel joint, #34075, is shown above.

Inspect:	Defect	Action:
Cranking linkage	Broken.	Replace linkage
Rotary swivel joint	Frozen, Stuck. leaking	Replace swivel with new model
Crank shear pin	Broken	Replace with double bolt crank arm
PBM drive motor	Failed, stopped	Replace gear motor
PBM long arm	Slipping	Replace with double bolt crank arm

For further information please contact
MART Tech Services from
8:00 AM to 5:00 PM (central) or visit our
 website at www.marttechservices.com
24 hour 7days a week.