

Service Bulletin: MART Power Washer

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Subject: Cabinet Corrosion

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Is the inside of your MART Power Washer cabinet showing signs of rusting? This is a problem that can certainly develop into major damage to the steel cabinet of your Power Washer. As with most capital equipment an ounce of prevention is worth a pound of cure.

How do you prevent corrosion from attacking your washer cabinet?

There are several possible causes for corrosion on the inside of the washer cabinet. They include corrosive incoming water supply, galvanic corrosion and poor chemical management. The easiest prevention step is to be sure the cleaning chemical you are using provides corrosion protection and then to maintain the proper concentration of that chemical. The only way to reliably measure chemical concentration is by titration. Titrating on a regular basis will determine the percentage of cleaning chemical per gallon of water and allow you to decide if additional chemical is required. Normally concentrations of 4% to 8% are acceptable. MART has titration kits and user instructions for all its recommended Power Kleen cleaning chemicals.

Know your pH level! In order to prevent corrosion of steel you must maintain the pH level between 10.5 and 12.5. You can test your pH level with a standard pH test strip.

Titrating and testing pH levels on a regular basis is important not only to prevent deterioration of your wash cabinet but also to maintain the cleaning standards you expect from your Power Washer. The type of chemical and the length of time it lasts (bath life) will greatly determine the cleaning results you achieve. Bath life will depend on several factors, which include the type of chemical, the chemical concentration, the type of soils being removed, and the amount of cleaning being done.

Oil that floats on the surface can significantly deteriorate your cleaning results and is one of the easiest contaminants to remove. Oil skimmers to remove the bulk floating oil are available as an option or retrofit on all Mart Power Washers.

As the wash solution is used to clean parts it will become increasingly more contaminated. At some point the solution will become fully saturated and it will be necessary to change the wash solution and recharge the washer with new water and chemical. As an alternative the solution may be recycled using the Mart EQ-1 Wastewater Processor to remove the contaminants and return the clarified solution and unused detergent back to the washer reservoir.

Things to remember to prevent corrosion and improve cleaning:

- **Select an appropriate cleaning chemical that provides corrosion protection.**
- **Maintain your chemical concentration by titrating your wash solution on a regular basis.**
- **Test your pH levels on a regular basis and maintain a level between 10.5 and 12.**
- **Know your bath life, and change or recycle the wash solution on a regular basis.**
- **If the inside of your wash cabinet is showing signs of rust or corrosion call Mart Technical Service. We will be glad to assist you with any issues regarding your MART Power Washer.**

For MART Technical Service Assistance call: 1-800-543-MART

Monday – Friday 8:00a.m. To 5:00p.m. (central)

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