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Easy-Wave® Automated Wash-down System

This module will be installed into the mechanical and plumbing aspects of the Wash System. It is the electronic “heart” of the system and performs the control of the valves and sensing of fluid levels.

P/N 30181 is a Clock Module that plugs into the Easy-Wave® base Station (P/N 30045).

This module gives the Easy-Wave® system the ability to know the current Date and Time. When this module is plugged in, the Wash Down system can be configured to automatically wash the chute down on a pre-programmed schedule. Thus the only thing that needs to be done is keep the soap solution reservoir filled.

The system has two levels of capability.

BASIC SYSTEM

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This system consists of a Wash Down controller located at the top of the Chute. This controller incorporates the Easy-Wave® termination, so it must be the LAST device on the Easy-Wave® door chain. Also included are two solenoid valves, the soap injector, the soap solution reservoir equipped with a soap level sensor and the wash down spray head.

All that needs to be done is for the plumber to hook up the water supply via a shut-off valve and vacuum break.

This system has the following features:

- Wash Down consisting of four timed cycles: WASH, SOAK, RINSE, DRY
- Each Cycle can be configured from 0 to 30 minute durations. Setting the duration to 0 skips the cycle.
- Warning is given if soap solution is LOW – but the wash cycle will proceed.
- Chute automatically goes back into service as soon as the Wash Down completes.

- Simple interaction for starting a Wash Down:
 - Toggle Lock Switch to LOCKED to lock out the chute.
 - Press MENU Button to select "WASH DOWN System"
 - Press SELECT button to select "Start Wash Down"
 - Toggle Lock Switch to OFF to initiate the Wash Down.
- Ability to cancel the Wash Down from the base station if desired.

Addition of the Clock Module (P/N 30181) Additional features:

- User can select which days of the week, and at what time of day the Wash Down will be initiated.
- Wash Down will AUTOMATICALLY be initiated at the configured Day(s) and Time.
- If a Chute door is in use when Wash Down is scheduled, it will start automatically as soon as the door is closed.

SEQUENCED SPRAY SYSTEM

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This system consists of a Wash Down controller located at the top of the Chute. This controller incorporates the Easy-Wave termination, so it must be the LAST device on the Easy-Wave door chain. Also included are two solenoid valves, the soap injector, the soap solution reservoir equipped with a soap level sensor and the wash down spray head.

Additionally we would add two or more "smart" valves with spray heads located at alternate levels on the chute. These "smart" valves are connected to the Wash Controller with RJ45 cables in a daisy chain similar to the way the doors are connected.

All that needs be done is for the plumber to hook up the water supply via a shut-off valve and vacuum break. Additionally, piping from the Wash System at the top of the chute to each "smart" spray valve must be run.

This system has all the features of the BASIC SYSTEM, with the addition of automatic sequencing of the "smart" valves such that the Wash proceeds from the top of the chute towards the lower levels of the chute. The idea is to provide more even coverage of the Wash solution, and to force the dirt down the chute with the sequenced spray.