

MAGUIRE PRODUCTS INC.

Weigh Scale Blender®

S - BLENDER®

- SUPPLIMENTAL DOCUMENTATION

Maguire S-Blender Supplemental Document

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To every person concerned with use and maintenance of the Maguire S-Blender it is recommended to read thoroughly these supplemental operating instructions as well as the specific controller manual for your Maguire controller. Maguire Products Inc. accepts no responsibility or liability for damage or malfunction of the equipment arising from non-observance of these operating instructions.

To avoid errors and to ensure trouble-free operation, it is essential that these operating instructions are read and understood by all personnel who are to use the equipment.

Should you have problems or difficulties with the equipment, please contact Maguire Products Inc. or your local Maguire distributor.

These operating instructions only apply to the equipment described within this manual.

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Maguire S-Blender

Special Purpose Blender High Temperature

The “S” Blender is a special purpose blender designed for applications where the clearance between the machine throat and the **drying hopper** is limited (typically no more than 84 inches [213 cm]). The S Blender is supplied without a “natural” material hopper as a drying hopper provides the supply of the primary material. The specification of the S Blender requires the assistance of a factory representative to ensure the unit is properly configured.



Features

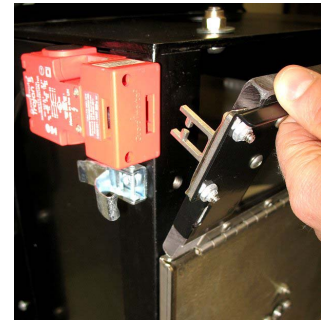
- High Temperature Construction
- Capacity: 700 - 1,000 lbs/hr depending on configuration
- Multiple configurations available
- Electrical requirement: Customer Specify
- 3" Round Dispense valves
- Can be configured with 2, 3 or 4 dispense valves
- Automatic operation
- Materials metered by weight
- No calibration required
- Direct setting of percentages
- Accuracy constantly monitored
- Inventory Control Data manually retrievable for each component
- Printer and computer ports
- All components easily accessible for cleaning
- Built-in compressed air hose and nozzle for cleaning
- Machine mounted
- 5 YEAR WARRANTY

Mix Chamber Removal, Inspection, Cleaning

The Mix Chamber is accessible through the Front Door Assembly. The Front Door Assembly is secured to the frame assembly with 2 latches. The upper half of the Front Door Assembly is keyed into a Safety Interlock Switch.



1. To open the Front Door Assembly, un-latch the upper latch and pull the upper half of the door from the Safety Interlock Switch. Folding at the hinge, lower the upper door so that it rests against the lower half of the door.



2. Un-hook the lower door latch and swing open the Front Door assembly.

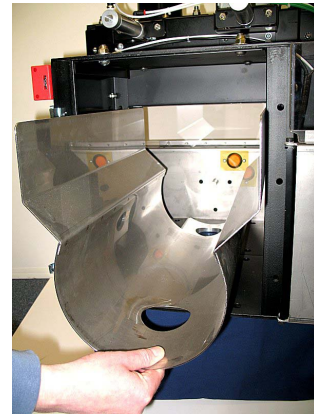
The Mix Blade shaft will detach from the Mix Shaft Collar located on the inner side of the Front Door Assembly.



3. Remove the Mix Blade from the Mix Chamber.



4. Remove the Mix Chamber. Note that the Mix Chamber dump port is closer to the Front Door Assembly. This opening at the base of the Mix Chamber must be re-installed in the same orientation, with the Mix Chamber opening directly over the opening of the Mix Chamber Saddle located directly below the Mix Chamber.
5. Clean and inspect the Mix Blade, the Mix Chamber, and lower area of the Frame Assembly.



Re-Installation of the Mix Chamber and Mix Blade

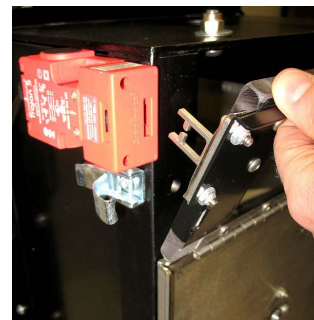
1. Slide the Mix Chamber into the Frame Assembly. Orient the Mix Chamber Dump port so that it is directly above the Mix Chamber Saddle. The port will be closest to the Front Door Assembly.
2. Insert the Mix Blade keyed end first. The end of the Mix Blade will slide over the Mix Motor shaft. Allow it to rest in the Mix Chamber.



3. Close the Front Door Assembly. While closing the door, carefully reach into the Mix Chamber and lift the Mix Blade to allow the shaft to slide into the Mix Blade Shaft Collar. Close and latch the lower half of the Front Door Assembly.



4. Lift the upper half of the Front Door Assembly and insert the keyed Safety Interlock Switch. Close the upper latch of the Front Door Assembly.

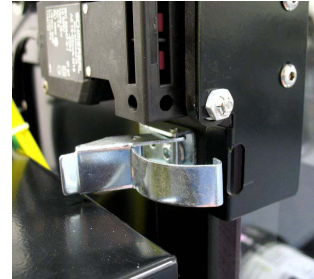


Weigh Bin Assembly Removal, Inspection, Cleaning

The Weigh Bin Assembly is accessible through the Back Door Assembly. The Back Door Assembly is secured to the frame assembly with 2 latches.



1. To access the Weigh Bin Assembly, un-hook the latch, and gently lower the hinged Back Door Assembly down onto the Mix Motor.



2. Detach the Dump Valve Air Line.



3. Hold the Dump Valve **closed** while sliding the weigh Bin out of the Frame Assembly.



4. Clean and inspect the Weigh Bin. Using compressed air, remove any debris, dust or pellets from the Load Cell hangers and from the surrounding camber. At this time, you have access to the Load Cells within the Frame Assembly. If necessary, they can be examined to be sure they are free of interference and can be replaced if necessary.



Re-Installation of the Weigh Bin Assembly

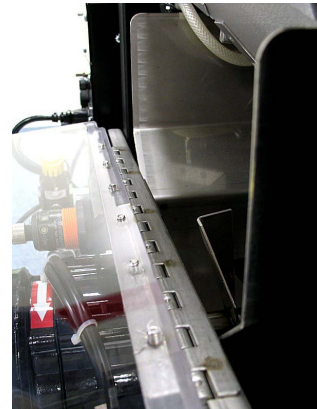
1. To re-install the Weigh Bin, hold the dump flap closed while guiding the weigh bin into the Frame Assembly. Orient the Weigh Bin so that the Dump Valve air hose is to the left and closest to you.



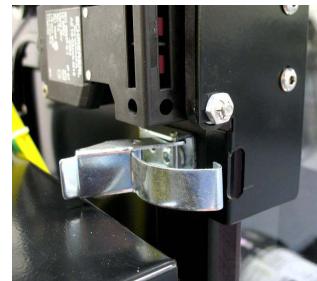
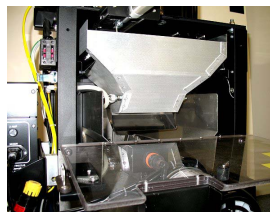
NOTE: When re-installing the weigh bin, be certain that the weigh bin is properly seated on both load cells and is behind the stop screw as pictured to the right.



When closing the front access panel, be sure to check the door hinge for any pellets or debris and clear any from the hinge before closing the door. Pellets and debris trapped in the hinge will cause it not to close properly. Forcing it to close with pellets trapped in the hinge can damage the door.



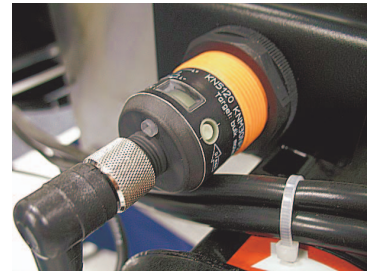
2. Close the Back Door Assembly and close the latch.



Sensor Adjustment

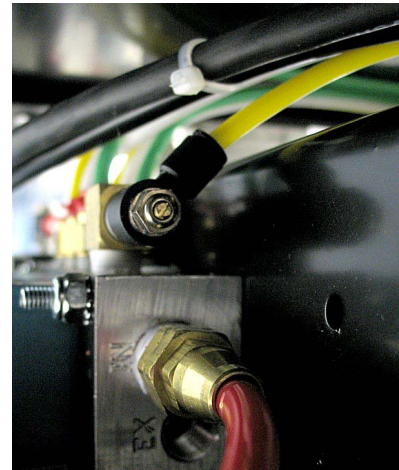
Location: Below the weigh bin door, next to the mix motor. Calibration: With the mix chamber **EMPTY**, press and hold the button located on the Sensor using a pen. Continue to hold the button until the sensors green light blinks **TWICE** then release the button. Be sure to release the button before the green light blinks 5 times or you will have to calibrate sensor again. **Note: Do not clean glass prior to calibrating. Calibrate with material dust present.** Sensor air gap between sensor and glass should be approximately 3/16" (5 mm).

Sensor Lights: Green light is power, should always be on solid when dryer has power (unless calibrating). Yellow should be on when no material is present in the mix chamber and off when material is present in the mix chamber. Red indicates a problem with a sensor or mis-calibration.



Weigh Bin Door Flow Control Adjustment

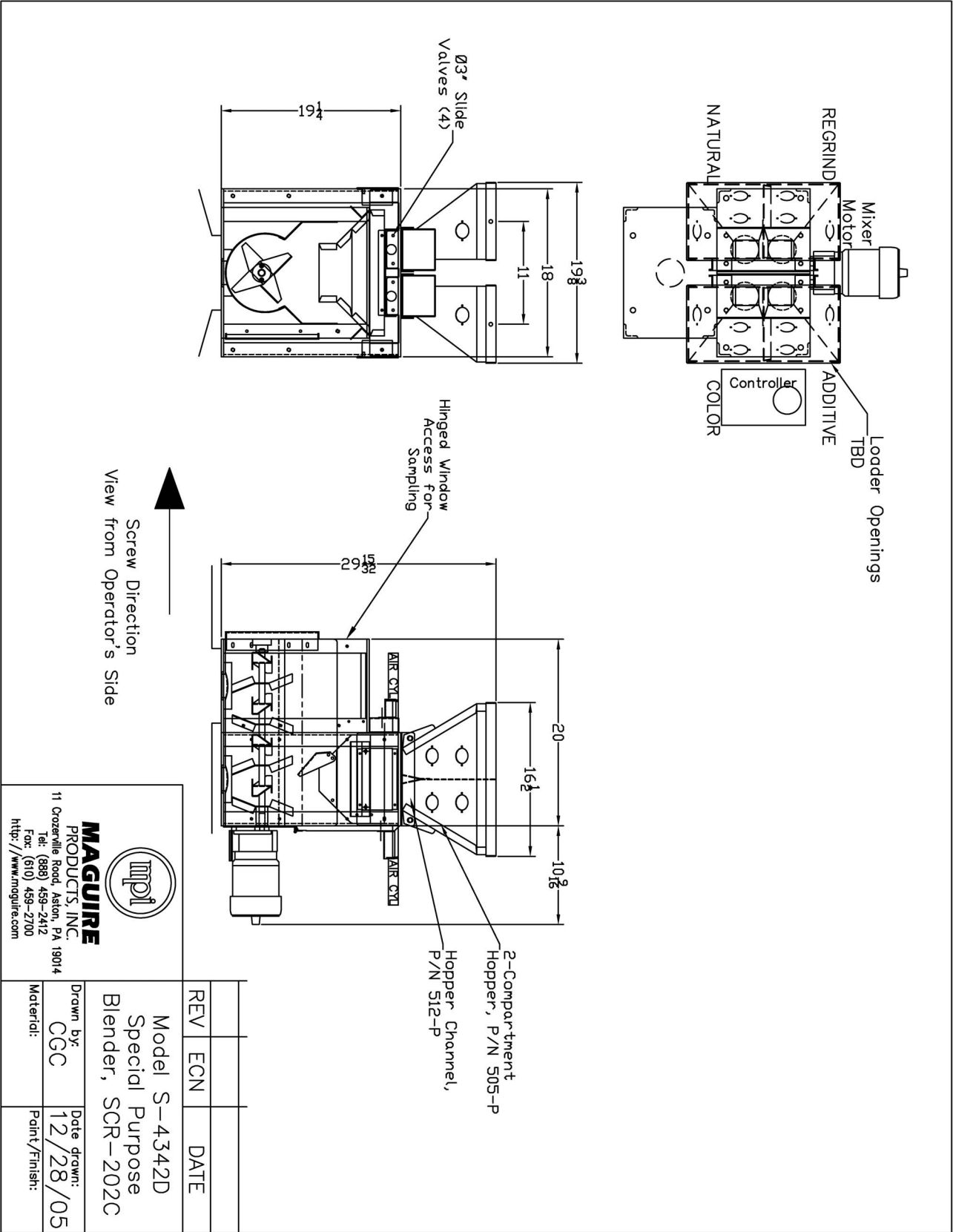
The Weigh Bin Flow Control is located below the Controller Tray and accessible from the left side. This pneumatic adjustment adjusts the closing rate of the Weigh Bin's dump valve. Adjust this valve so that the weigh bin valve closes firmly but does not slam closed. Proper adjustment of the Weigh Bin Flow Control is important so that damage does not occur to the Weigh Bin parts.



To ensure accurate dispense additive Material, the additive Slide Gate is intentionally restricted in how far it can open. This is by design. Do not attempt to adjust.



Dimensional Drawings

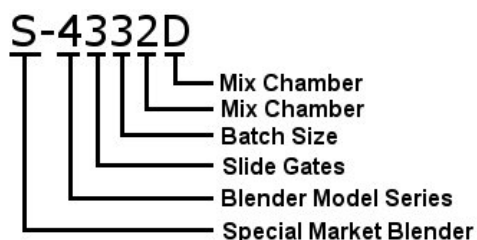


S-Blender Nomenclature / Order Code

The S-Blender identification plate is located on the left side of the Blender if you are facing the Front Door Assembly (access panel to Mix Chamber). This plate has specific information about your S-Blender including: Product Classification / Model Series / Slide Gate Options / Batch Size / Voltage / Amp Rating. The following information will help you decipher what is found on the identification plate.

YEAR: The year Blender was manufactured.

MODEL: See below for descriptions of each field in the model number.



S		Special Market Blender
Model Series	4	Series 400
Slide Gates	2	2 Slide Gates
	3	3 Slide Gates
L		Liquid Color Port
Batch Size	3	3000 Gram Batch
	4	4000 Gram Batch
Mix Chamber	2D	Series 200 Mix Chamber, Double Width

Example: S-4332D Special Market Blender, 400 Series Blender, 3 Slide Gates, 3000-Gram Batch, 200 Series Mix Chamber

SER #: Unique **Serial Number** of Blender

Volt: Voltage of Blender

AMP: Amperage rating of Blender

HZ: Hertz requirements.

MOD: Special Customer Requests Identification (SCR)



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