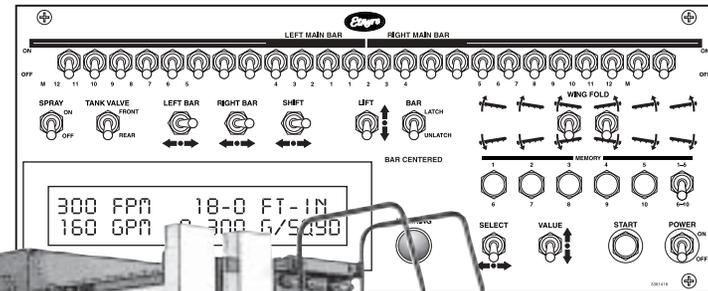




Centennial

Flow Charts and Control Positions

Variable Width Spraybar with BT-1 Controls



E. D. ETNYRE & CO.
 1333 S. Daysville Road, Oregon, Illinois 61061
 Phone: 815/732-2116 Fax: Sales 815-732-7400
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Important

The instructions represented here are a guide and not designed to be comprehensive. Refer to M-114-08 Centennial Asphalt Distributor Operation, Maintenance and Safety manual for complete instructions.

This pamphlet is provided as a tool to aid personnel in the operation of the Etnyre Blacktopper Centennial Distributor, as with any type of construction equipment, there are certain hazards associated with improper or careless operation. The ability to read and understand the instructions should be a required qualification to become an operator. There are also functions that require a certain amount of physical strength to accomplish. Persons lacking the required strength may not only place themselves in jeopardy, but also others in the vicinity. **Read and understand the Safety precautions found in M-114-08 Centennial Asphalt Distributor Operation, Maintenance and Safety manual before operating this machine.**

If you have any questions regarding this pamphlet or the operation of your unit, contact your Etnyre dealer or the E. D. Etnyre Service Department at 1-800-995-2116.



WARNING

Do not use this machine for any operation which is not described in the Operation manual.

If you have any questions about the operation of this machine, contact the Etnyre Service Department at 1-800-995-2116 or 1-815-732-2116.

Operations that are not approved could cause serious injury or death.

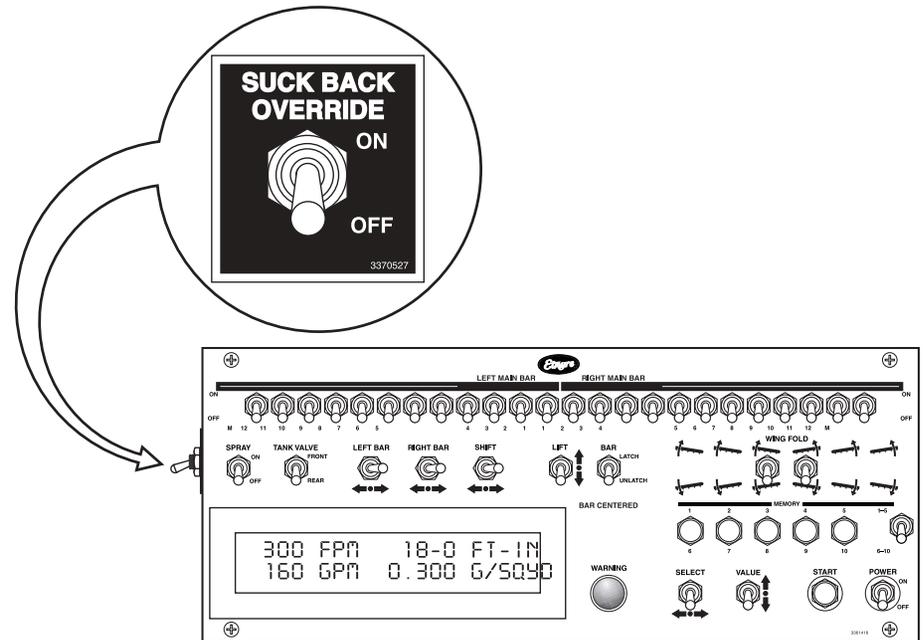
Bar Suck Back Override

This optional feature is designed for quick in-cab switching between bar circulate and bar suck back for units equipped with automatic tank and bar suck back valves. When the BAR SUCK BACK OVERRIDE switch is ON, all automatically controlled valves are set to their correct positions for BAR SUCK BACK. This overrides any settings of the Function knob and stops the asphalt pump when the PUMP CONTROL switch is in AUTO.

The following steps are performed in the cab while the Function knob is turned to BAR CIRCULATE.

1. Turn the BAR SUCK BACK OVERRIDE switch ON.
2. Press START. The pump will start turning at the desired rate. 200 GPM is recommended.
3. If complete bar suck back is desired, follow the instructions for bar suck back, beginning with the opening of the left bleeder valve. Otherwise continue to the next step.
4. Turn the BAR SUCK BACK OVERRIDE switch OFF.
5. Press START. The pump will start turning at the desired circulation rate.

Note: The pump can be stopped and the automatic tank valve can be closed immediately at any time during operation by turning the POWER switch OFF. Before turning the POWER switch back ON, turn the PUMP SPEED to zero if the PUMP CONTROL switch is in MANUAL, to prevent the pump from turning.



Control Panels

1. SPRAY Switch

Turning this switch to ON when the Function knob (rear panel) is turned to BAR CIRCULATE or BAR SUCK BACK, opens all activated spray valves.

2. START Button

Starts the asphalt pump turning at the target pump rate or starts calibration operations in the setup screens.

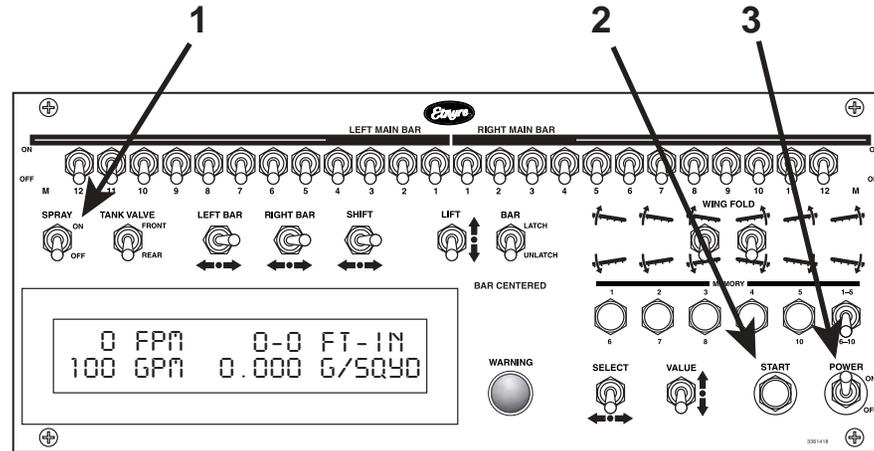
3. POWER Switch

Both POWER switches, front and rear, must be ON for the system to be ON. The entire system can be shut down by turning either POWER switch to OFF. Before turning either POWER switch to ON be sure you know what will automatically activate.

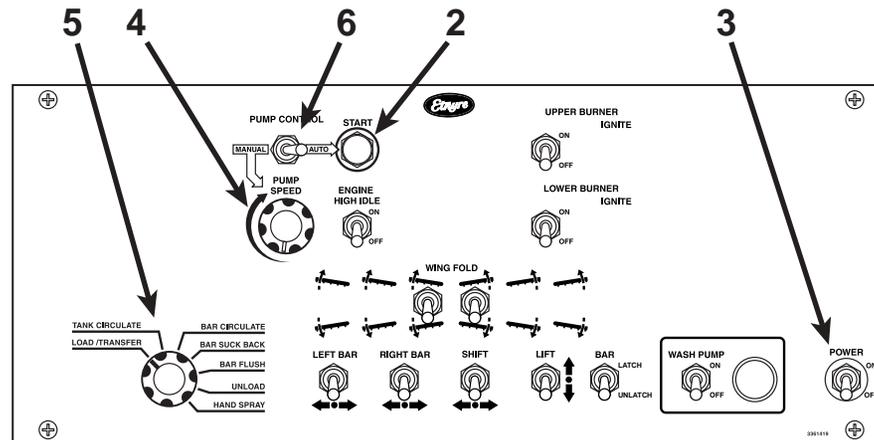
4. PUMP SPEED Control Knob

When MANUAL PUMP CONTROL is selected, turning this knob to the right (clockwise) increases the asphalt pump speed. It is possible to overspeed the asphalt pump in MANUAL control since the asphalt pump speed is also dependent on the engine speed.

Always turn the knob back to the left (counter-clockwise) before selecting AUTO PUMP CONTROL or turning ON either POWER switches (front or rear).



Cab Control Panel



Rear Control Panel

5. Function knob

When the desired operation is selected through this knob, the asphalt pump stops turning if the PUMP CONTROL is in AUTO, and all automatic valves (tank valve, 4-way valve, bar suck back valves, and balance valves) are set for the desired operation. The asphalt pump rate is set to the stored preset for the desired operation.

The factory pump rate presets are:

- LOAD/TRANSFER - 100 GPM
- TANK CIRCULATE - 150 GPM
- BAR SUCK BACK - 200 GPM
- BAR FLUSH - 100 GPM
- UNLOAD - 100 GPM
- HAND SPRAY - 50 GPM

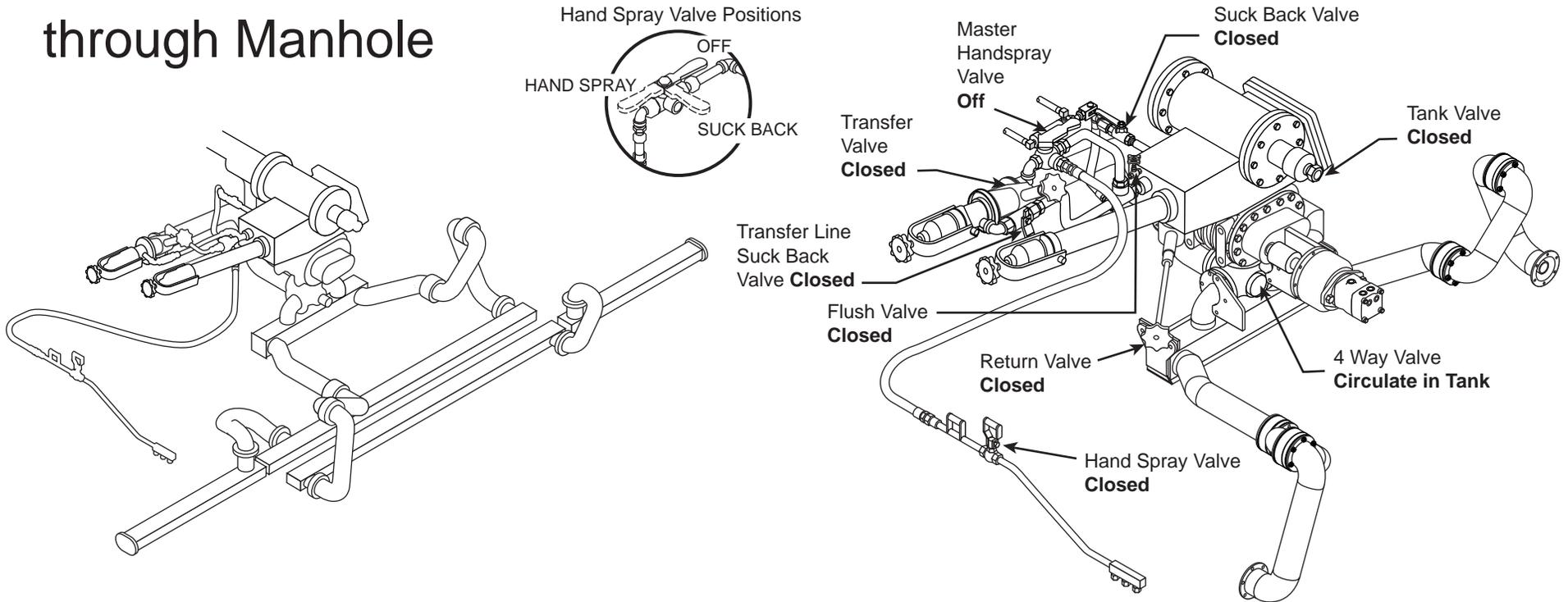
When BAR CIRCULATE is selected, the asphalt pump rate is calculated based on the displayed spray width, application rate, and the setting of the %CIRC factor.

6. PUMP CONTROL Switch

With the switch turned to AUTO, the asphalt pump speed is controlled at the desired rate through the computer.

With the switch turned to MANUAL, the asphalt pump speed is controlled with the PUMP SPEED control knob at the desired rate for a specific engine speed.

Load through Manhole



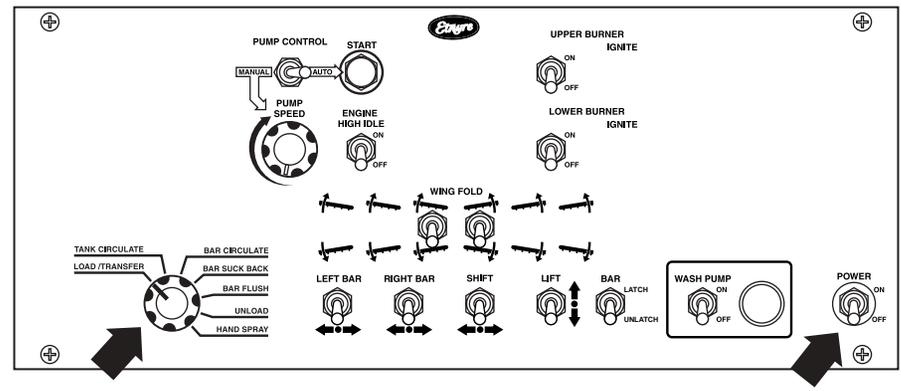
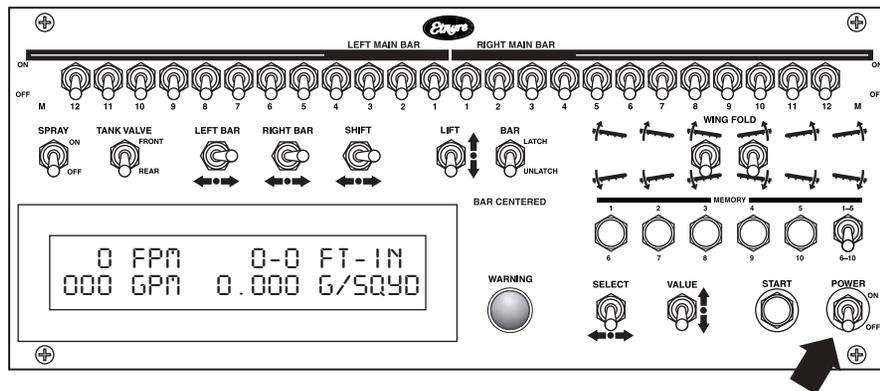
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Cab Panel

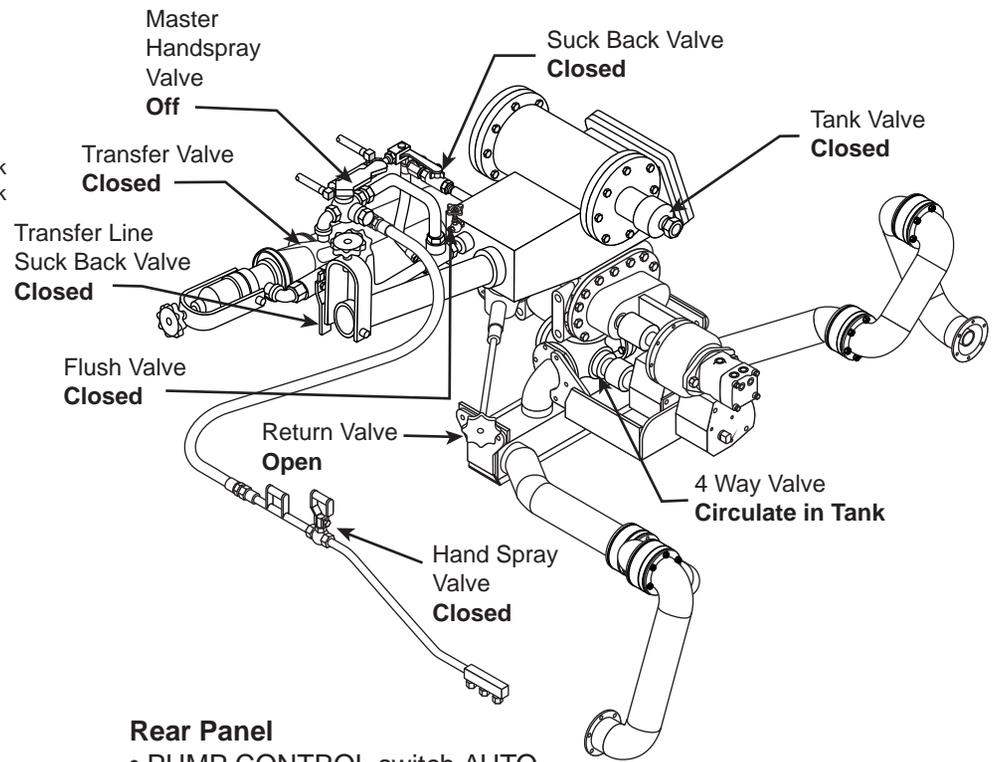
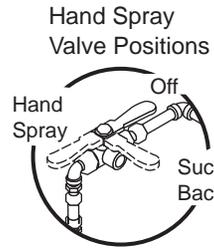
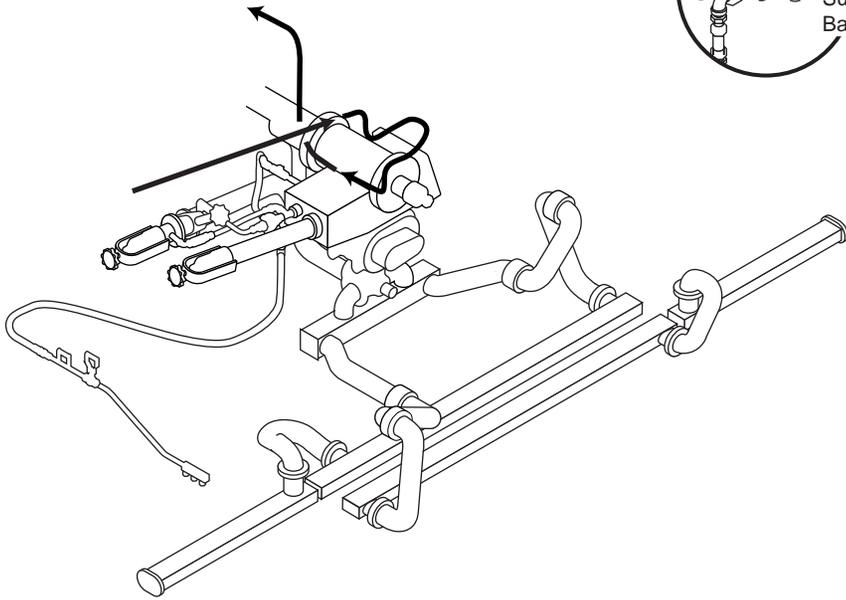
- POWER Switch OFF

Rear Panel

- Function Switch to LOAD/TRANSFER position
- POWER Switch OFF



Load through Load Line



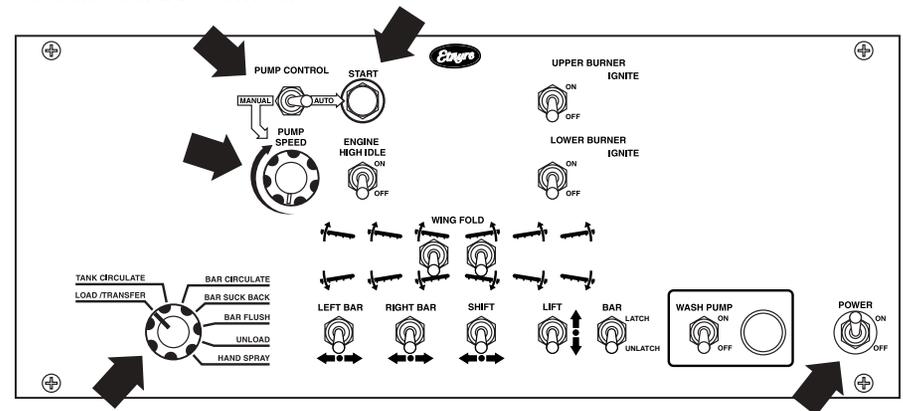
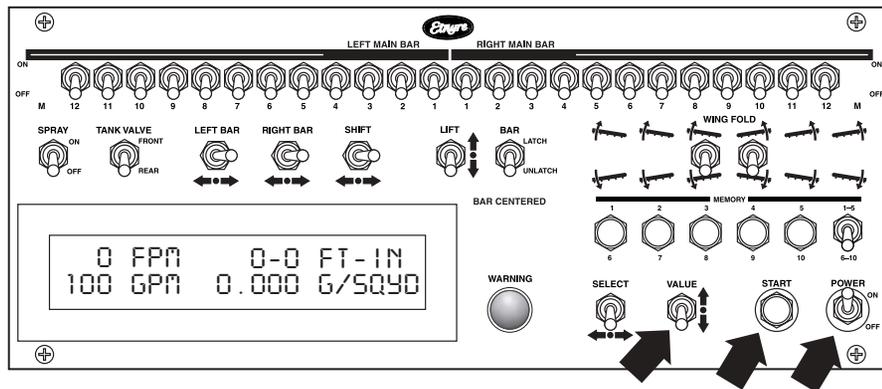
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Cab Panel

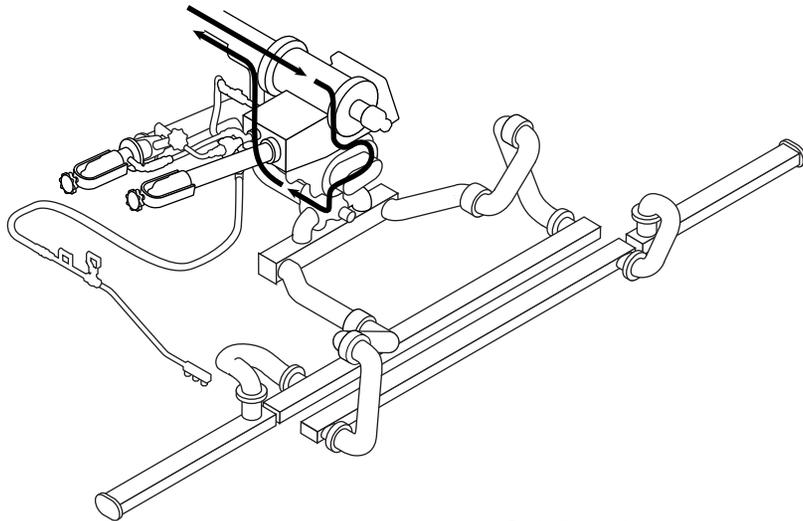
- POWER Switch ON
- 100 GPM - adjust using VALUE switch

Rear Panel

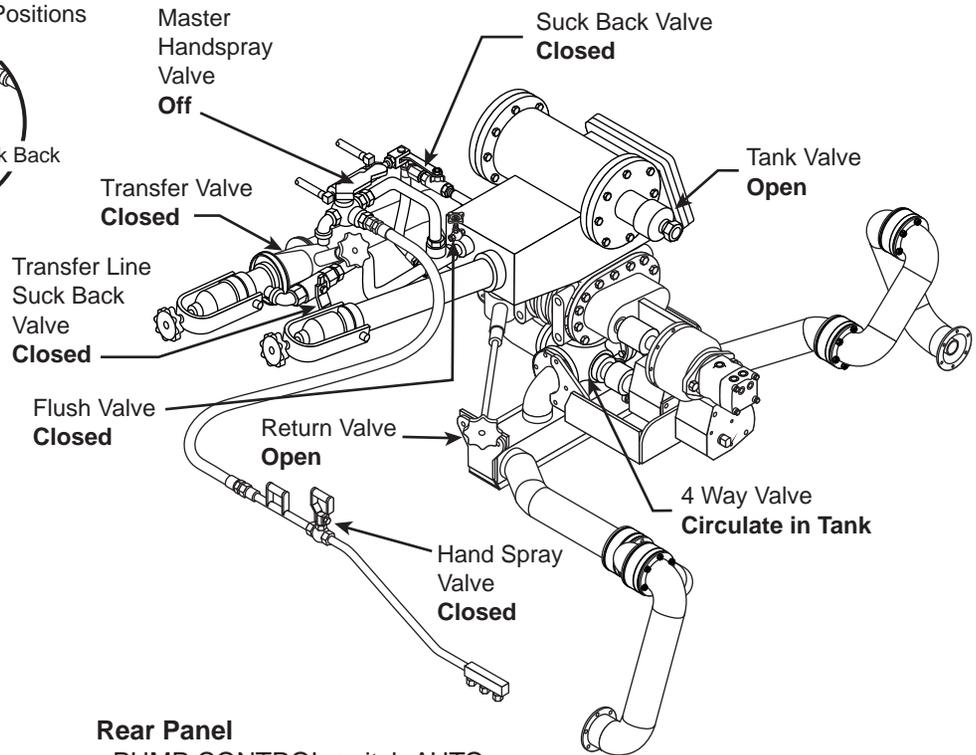
- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to LOAD/TRANSFER position
- POWER Switch ON
- Push "START" switch



Circulate In Tank



Hand Spray Valve Positions



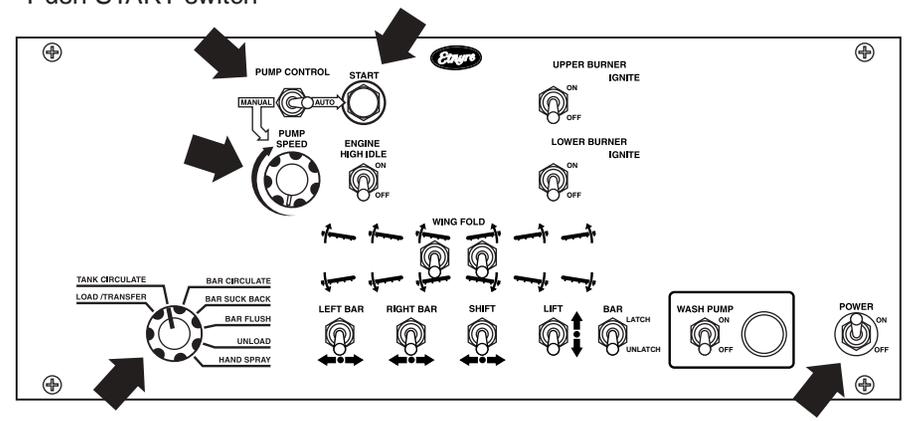
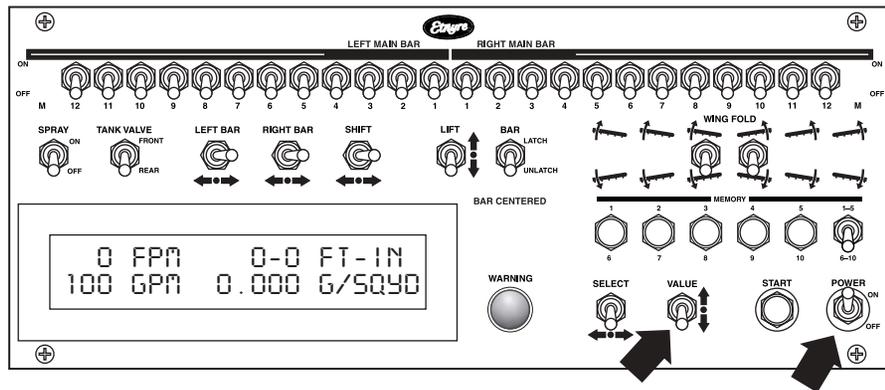
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Cab Panel

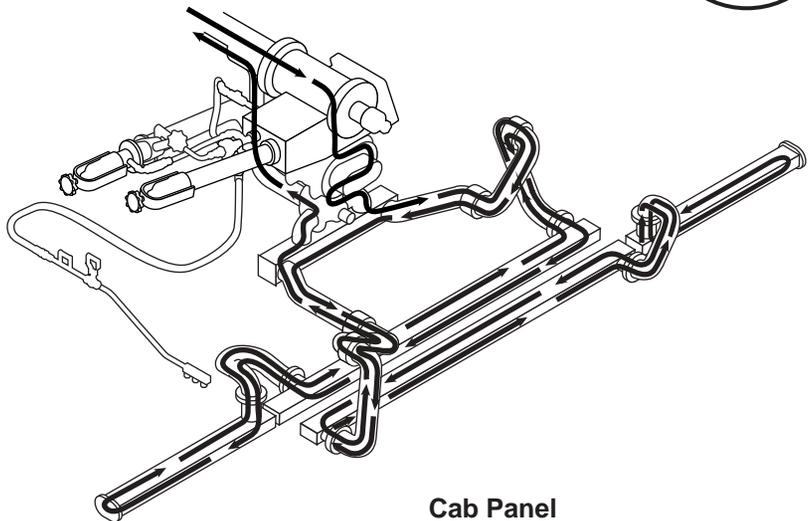
- POWER Switch ON
- Push START switch
- 100 to 150 GPM - adjust using VALUE switch

Rear Panel

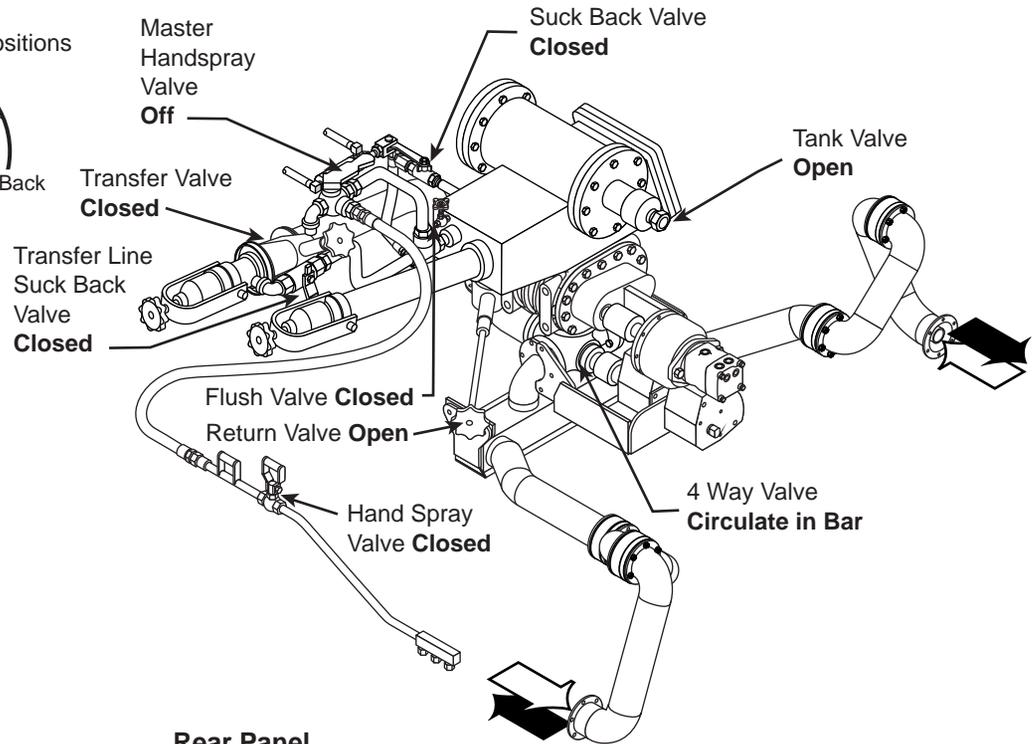
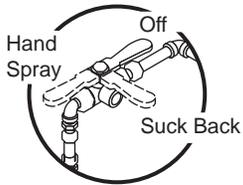
- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to TANK CIRCULATE position
- POWER Switch ON
- Push START switch



Circulate In Bar



Hand Spray Valve Positions



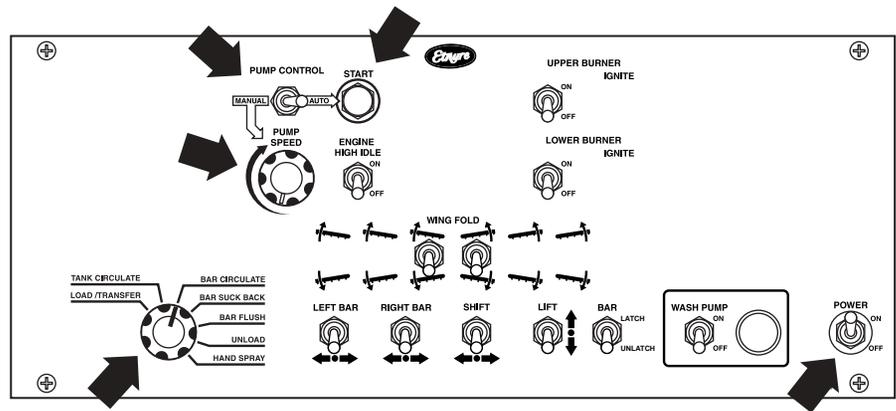
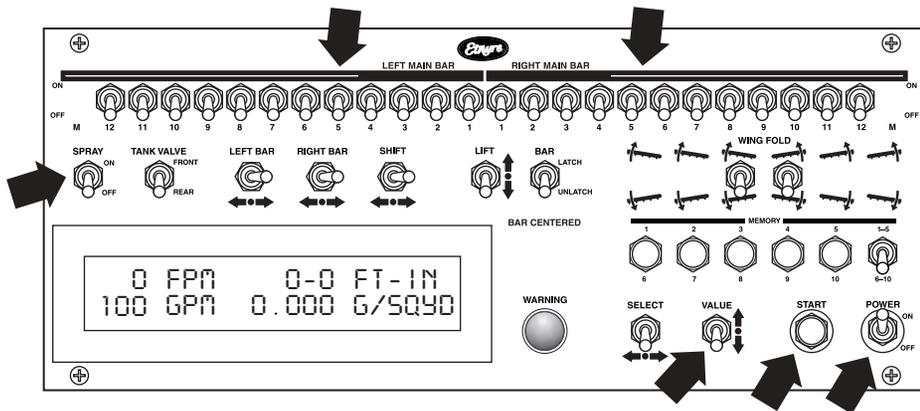
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Cab Panel

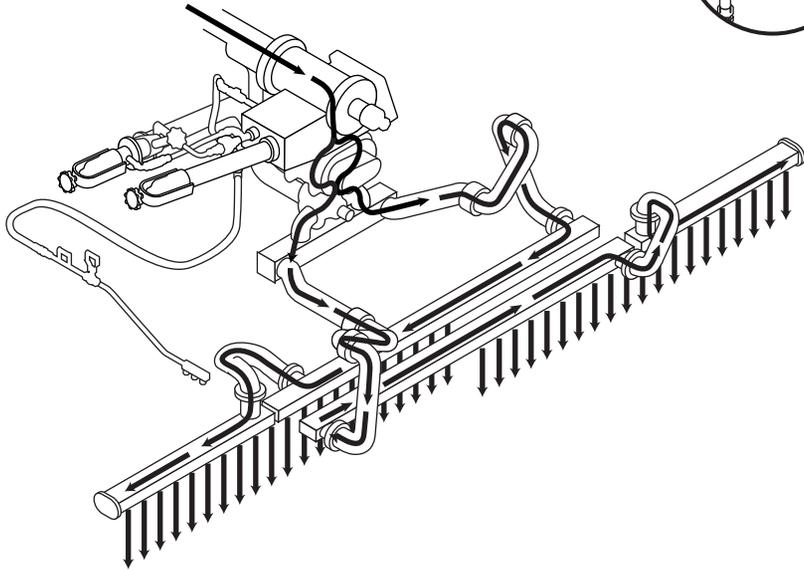
- POWER switch ON
- SPRAY switch OFF
- Set the application rate with a MEMORY switch or by using the VALUE switch
- Set spray width with One Foot switches

Rear Panel

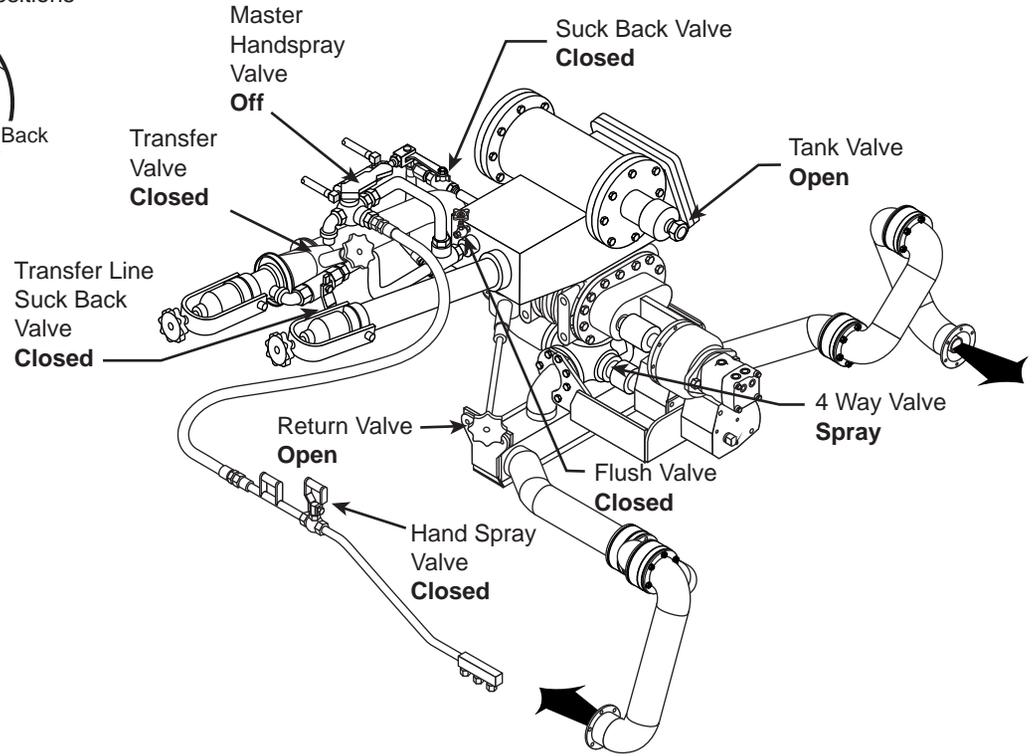
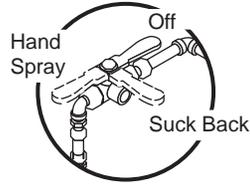
- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to BAR CIRCULATE position
- POWER switch ON
- Push START switch



Spray



Hand Spray Valve Positions



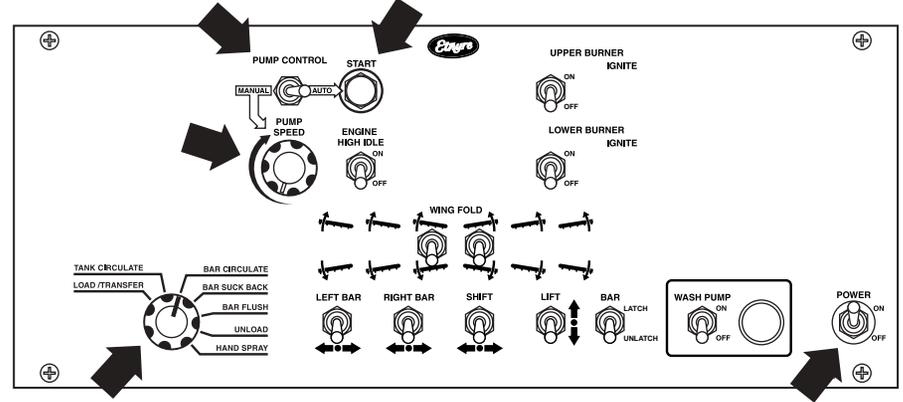
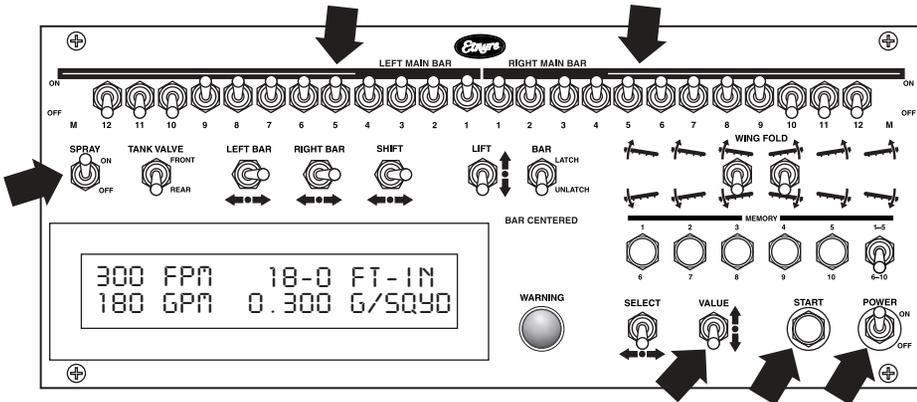
Cab Panel

The instructions represented here are a guide and not designed to be comprehensive. Refer to M-114-08 Centennial Operation Manual for complete instructions.

- Spraybar Switches (as desired) "ON"
- When the spray bar reaches the beginning of the shot, turn the SPRAY switch ON, turn the switch OFF at the end of shot.

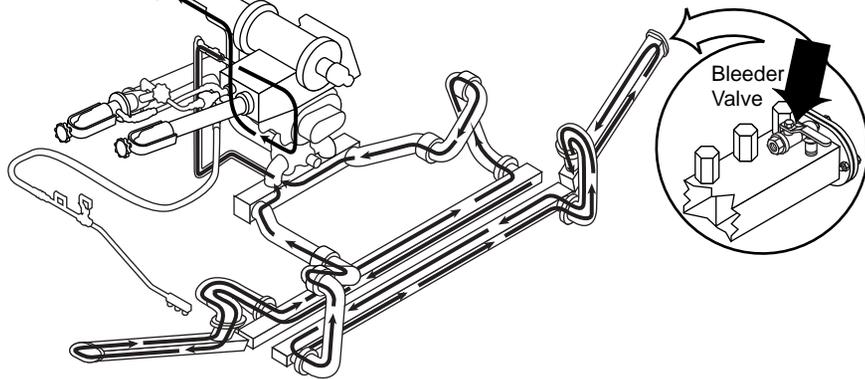
Rear Panel

- Function Switch to BAR CIRCULATE position

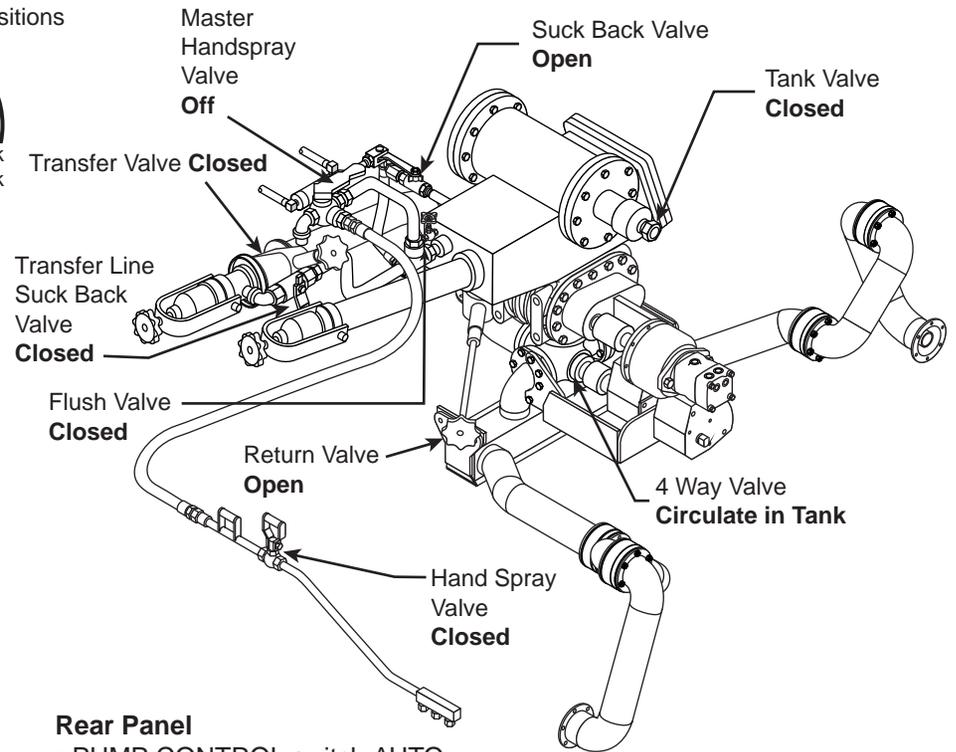
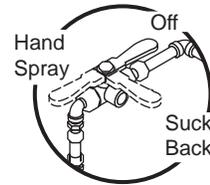


Suckback Spraybar

Open bleeder valve at the end of one of the wings. Leave it open until you hear a positive indication of vacuum at the valve. After closing the valve, repeat the procedure on the opposite wing.



Hand Spray Valve Positions



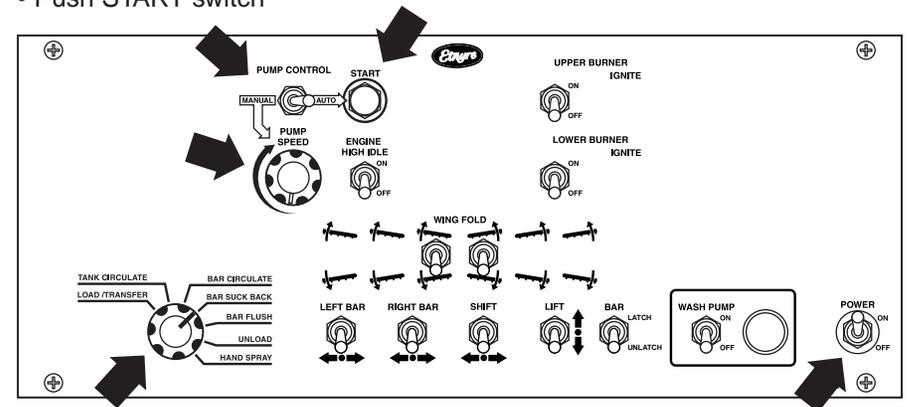
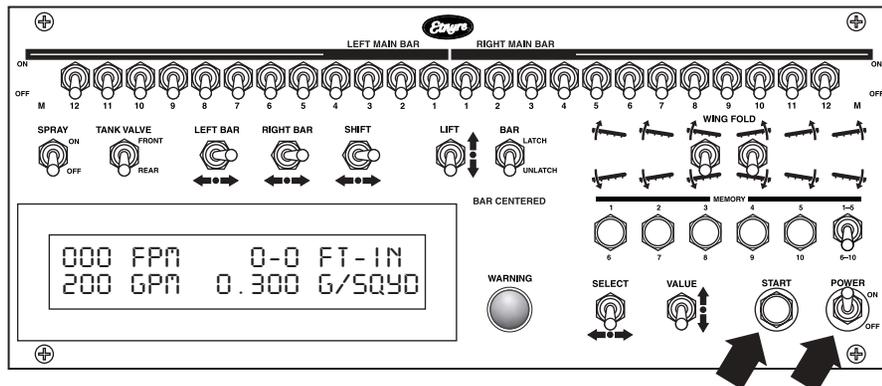
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Cab Panel

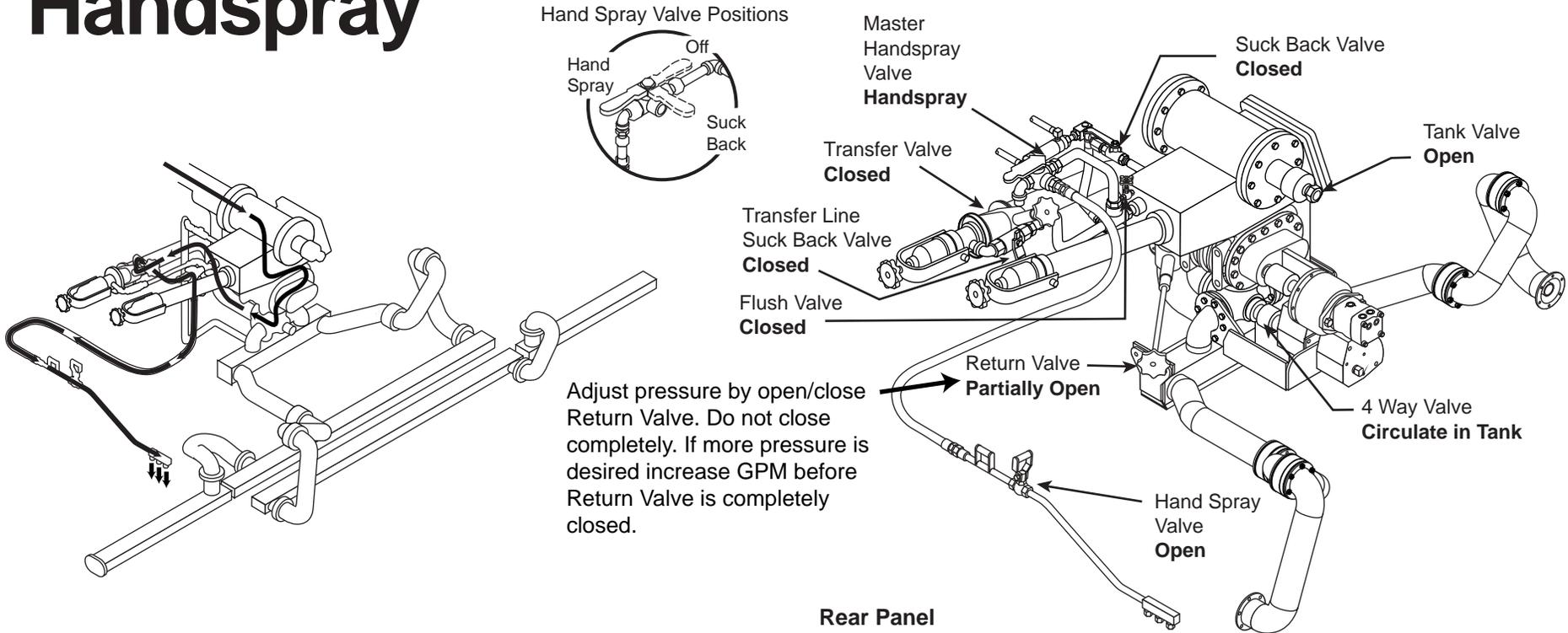
- POWER switch ON
- 200 GPM - adjust using VALUE switch

Rear Panel

- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to BAR SUCK BACK position
- POWER switch ON
- Push START switch



Handspray



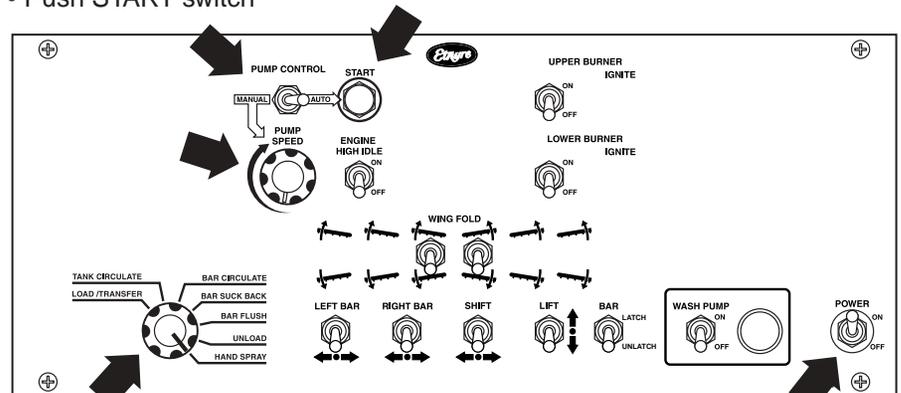
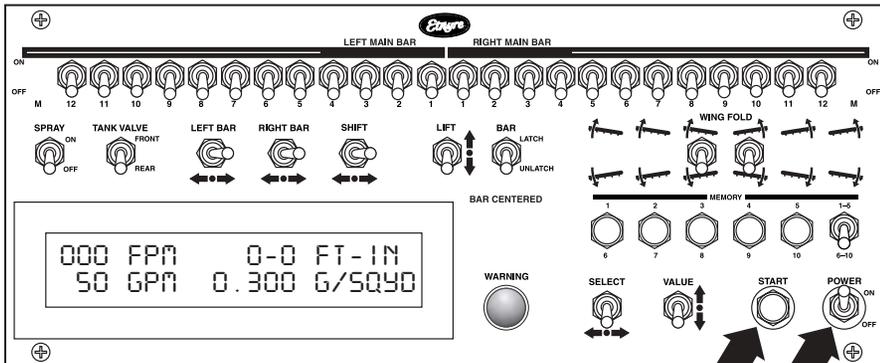
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Cab Panel

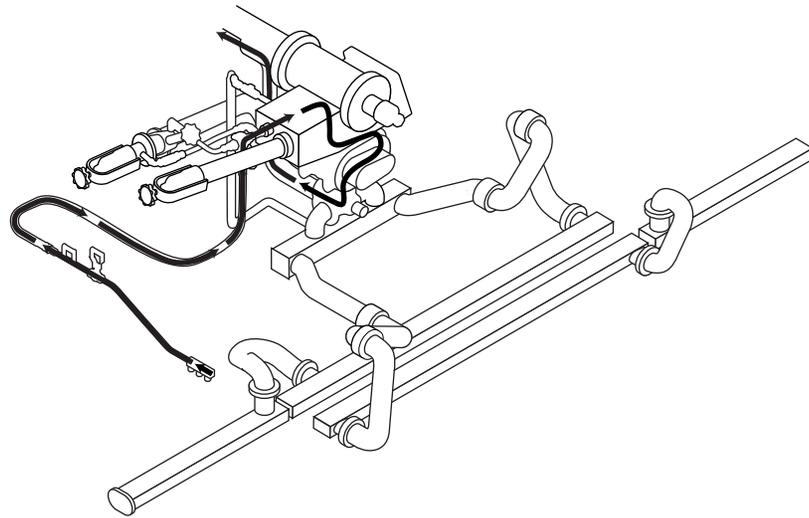
- POWER switch ON
- 50 GPM - adjust using VALUE switch

Rear Panel

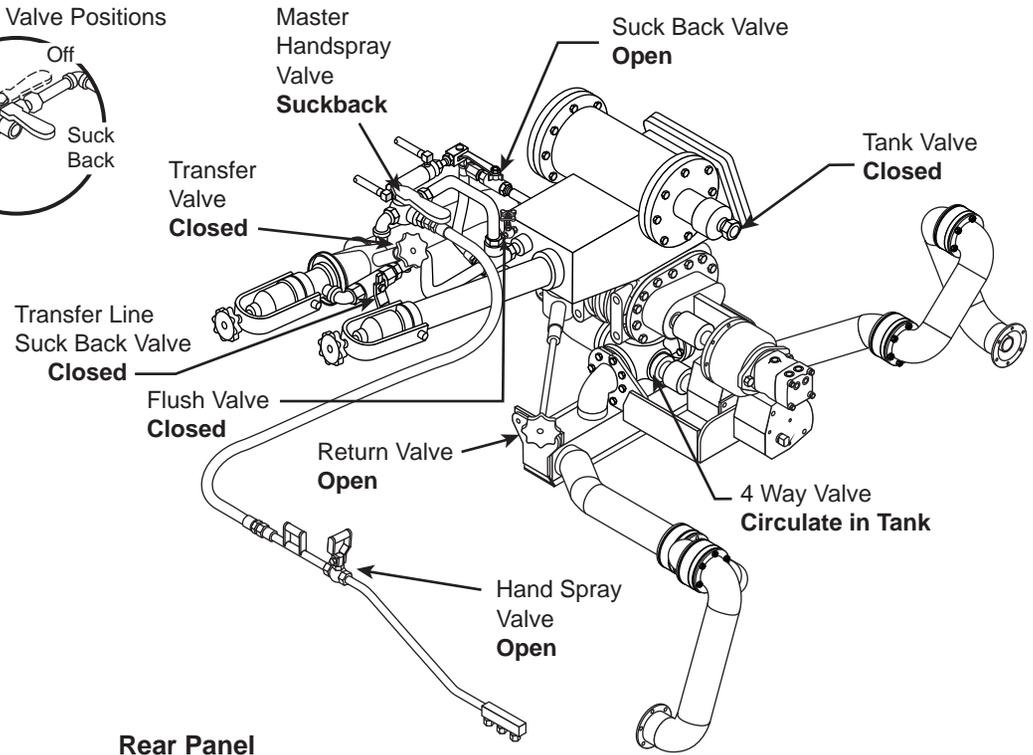
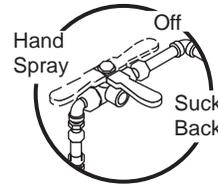
- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to HANDSPRAY position
- POWER switch ON
- Push START switch



Handspray Suckback



Hand Spray Valve Positions



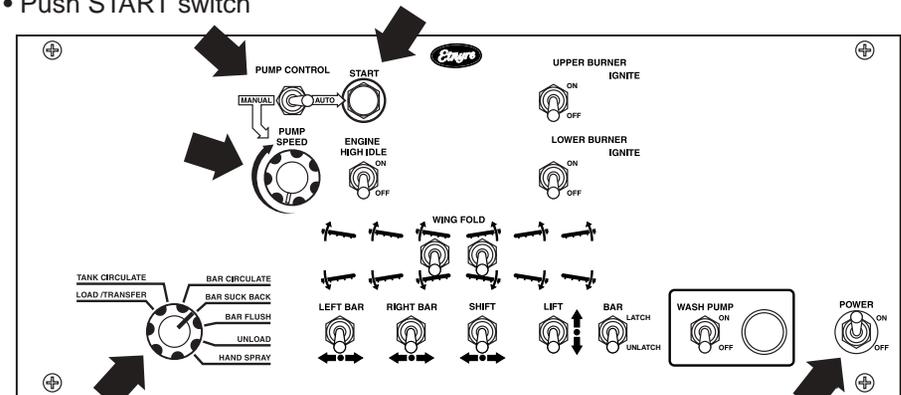
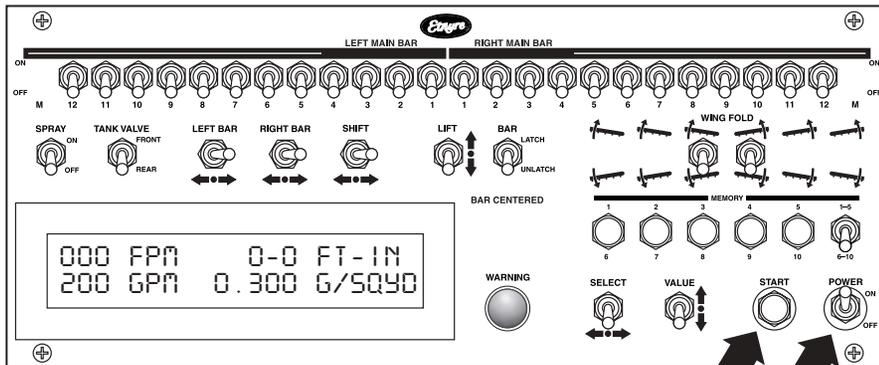
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Cab Panel

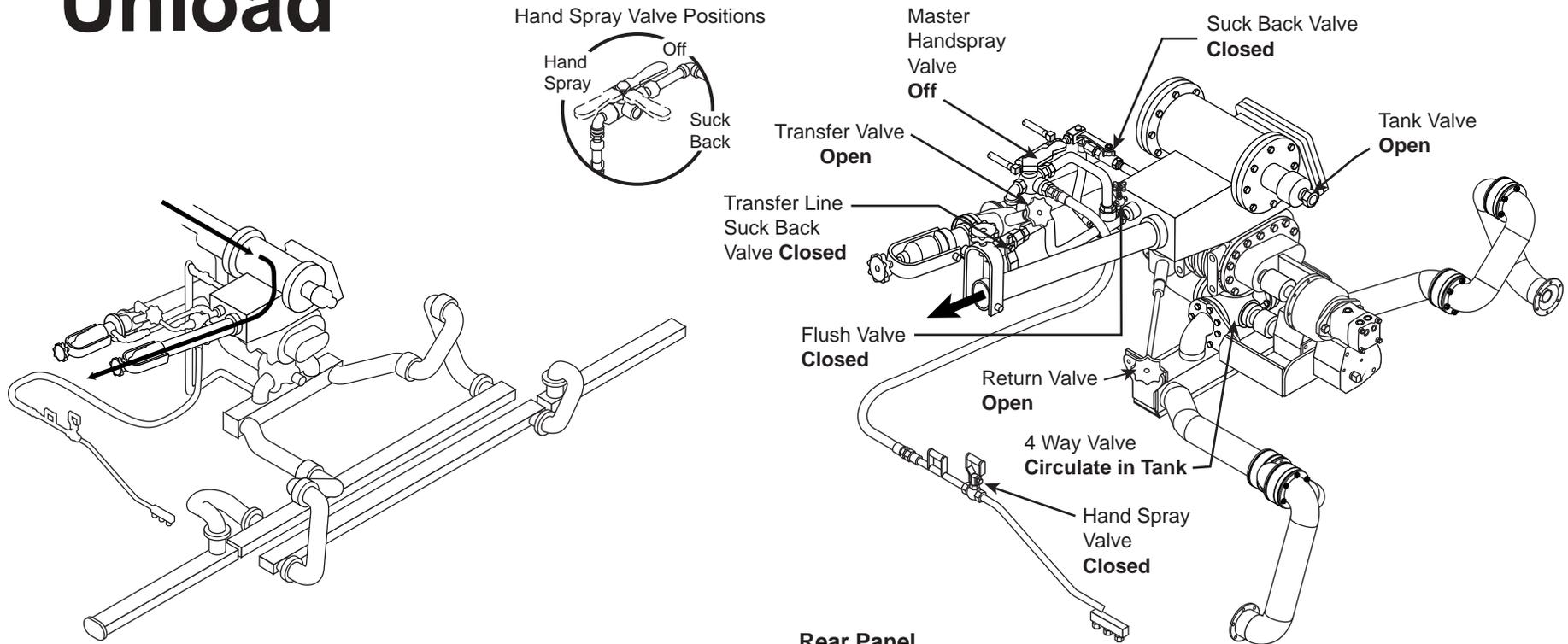
- POWER switch ON
- 200 GPM - adjust using VALUE switch

Rear Panel

- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to BAR SUCK BACK position
- POWER switch ON
- Push START switch



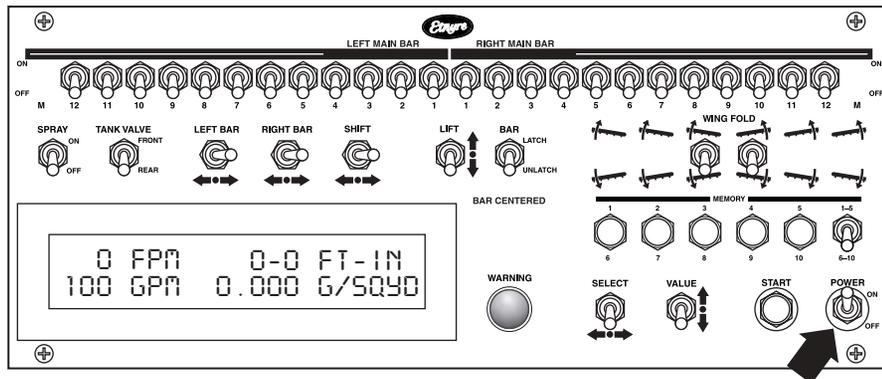
Unload



The instructions represented here are a guide and not designed to be comprehensive. Refer to M-114-08 Centennial Operation Manual for complete instructions.

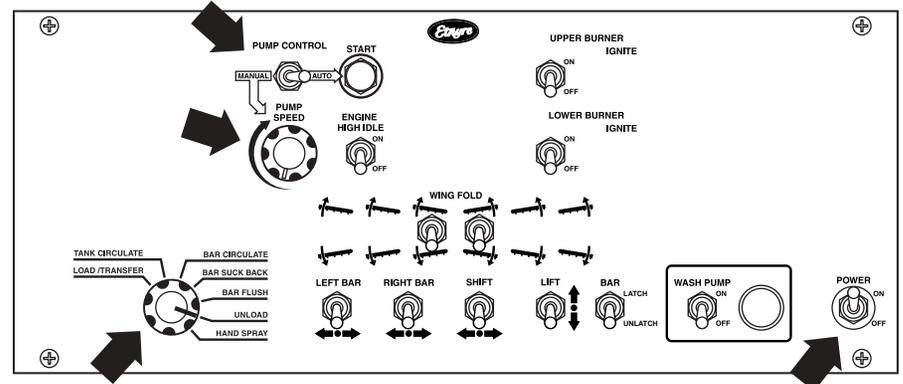
Cab Panel

- POWER Switch ON

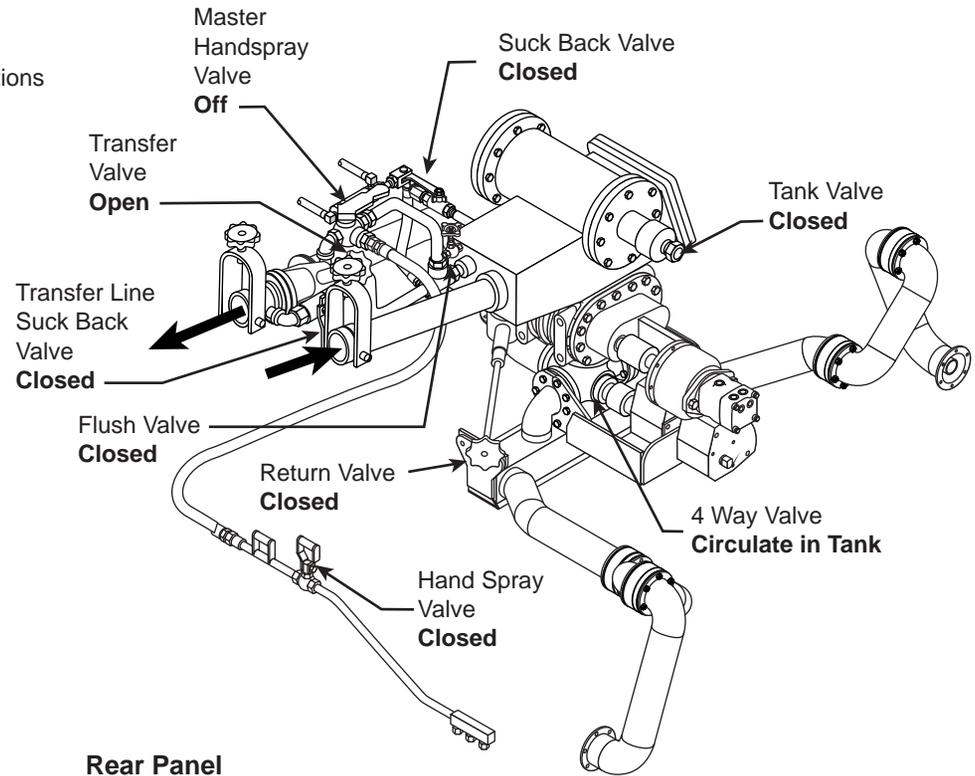
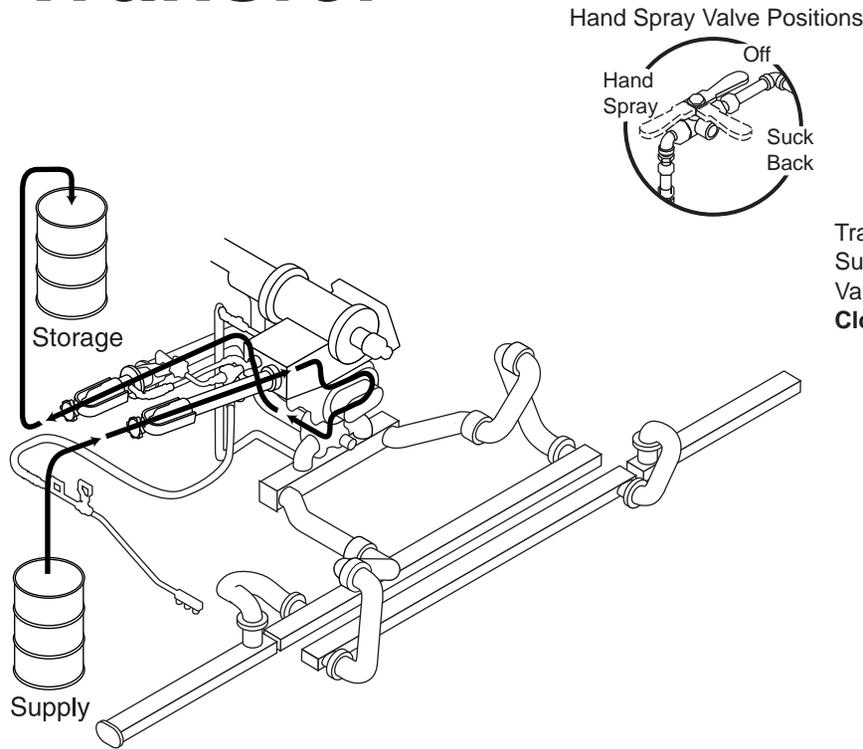


Rear Panel

- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to UNLOAD position
- POWER Switch ON



Transfer



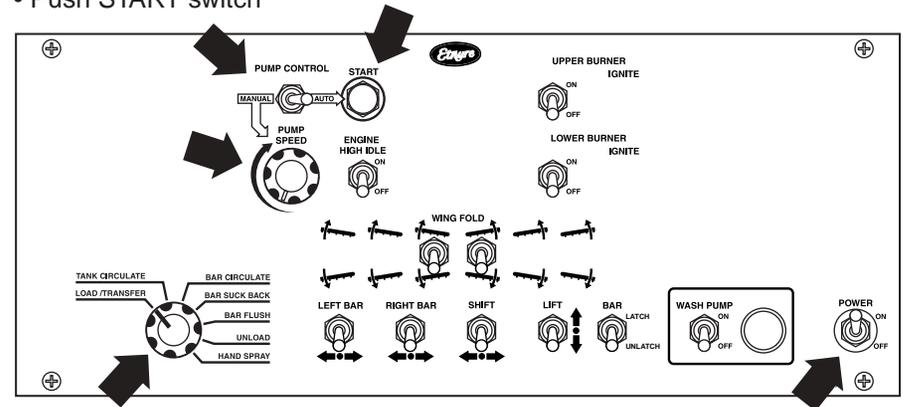
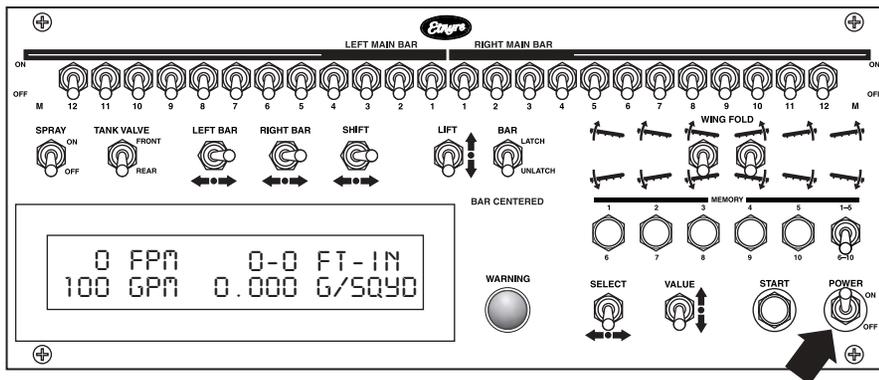
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Cab Panel

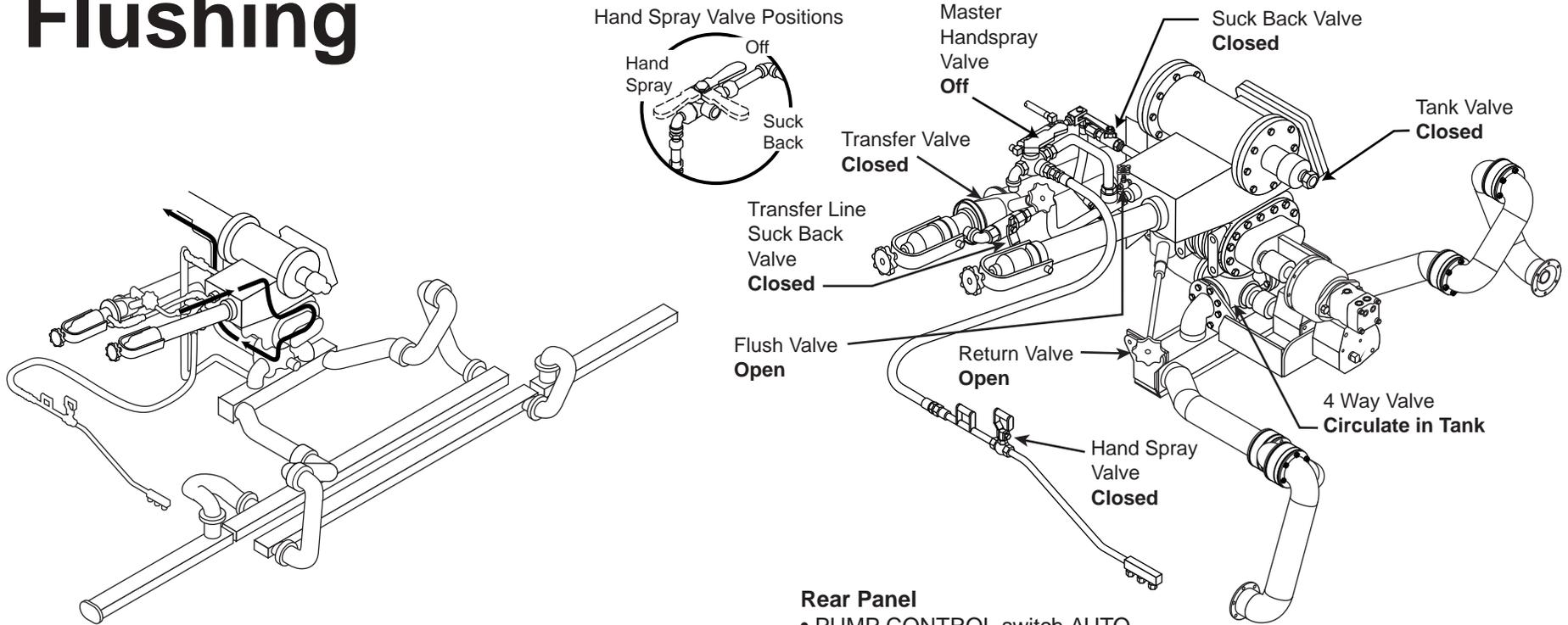
- POWER Switch ON
- 100 GPM - adjust using VALUE switch

Rear Panel

- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to LOAD/TRANSFER position
- POWER Switch ON
- Push START switch



Flushing



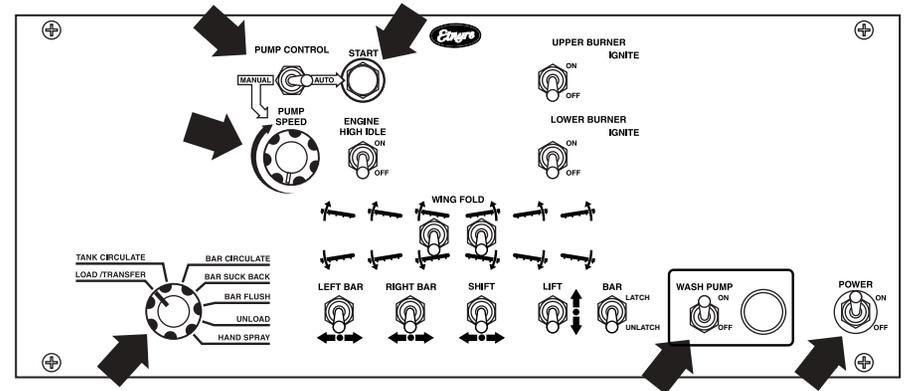
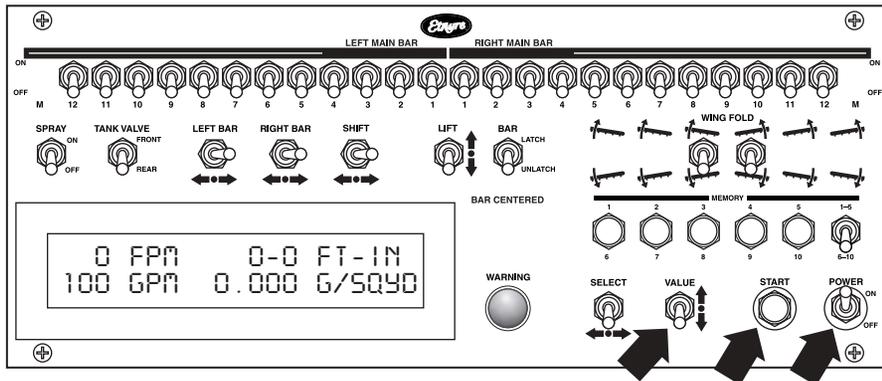
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Cab Panel

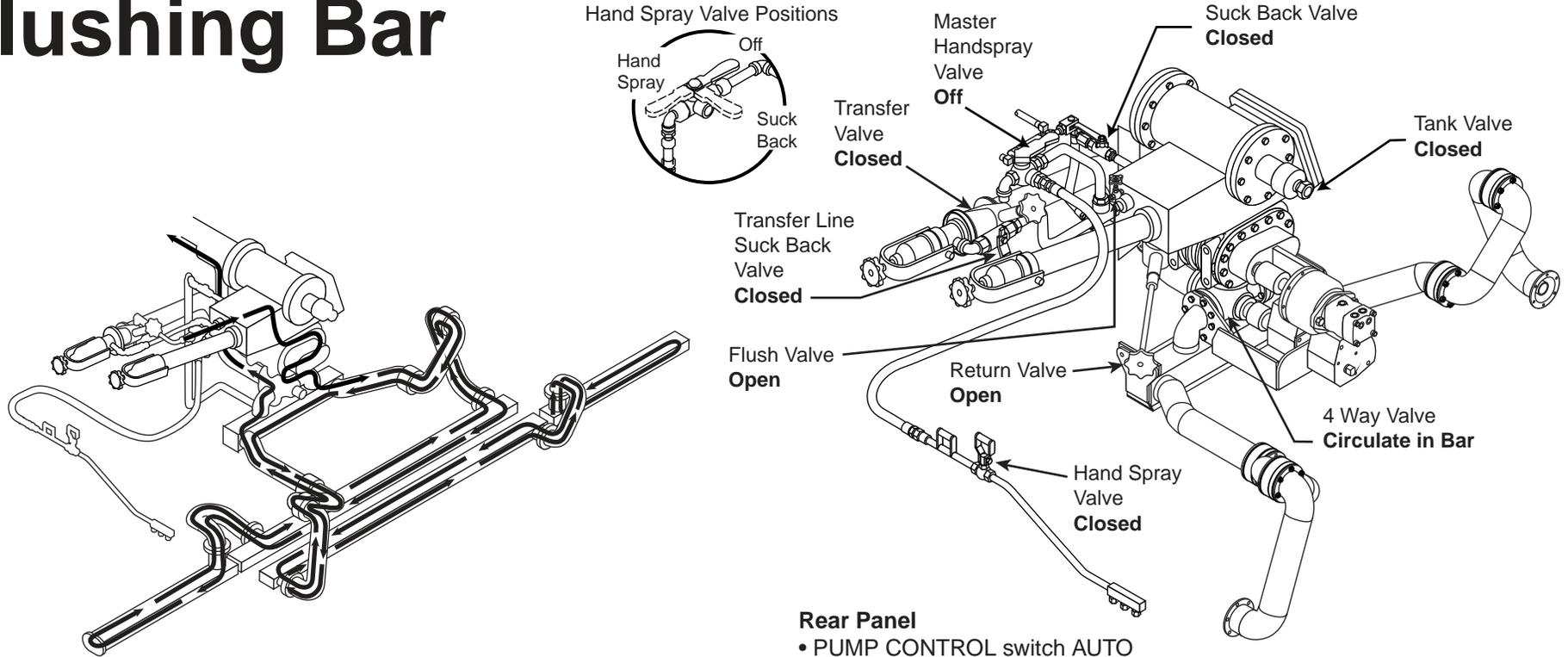
- POWER Switch ON
- 100 GPM - adjust using VALUE switch

Rear Panel

- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to LOAD/TRANSFER position
- POWER Switch ON
- Push START switch
- WASH PUMP switch (optional) - ON



Flushing Bar



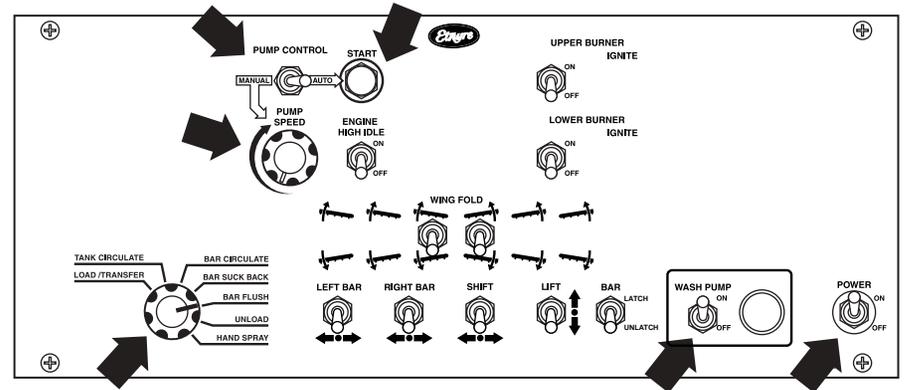
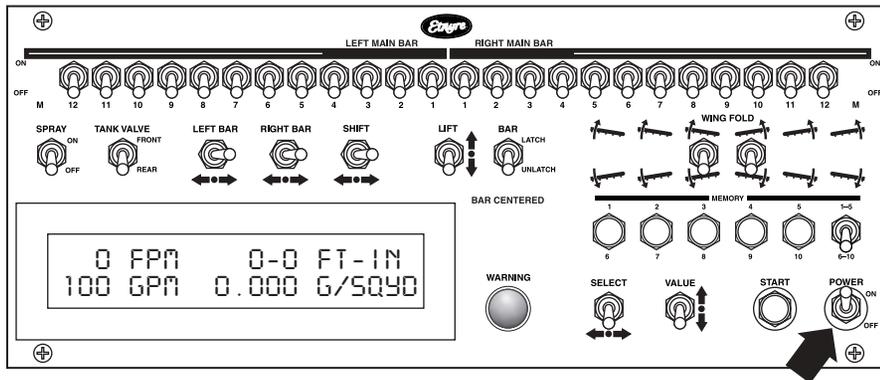
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Cab Panel

- POWER Switch ON
- 100 GPM - adjust using VALUE switch

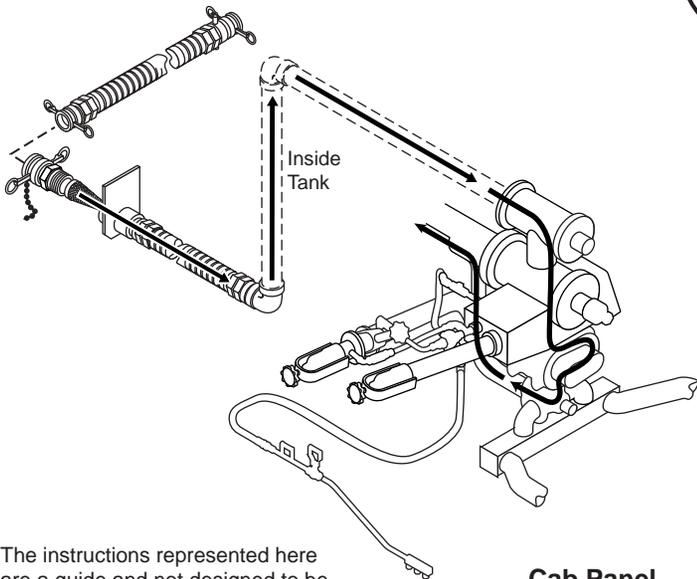
Rear Panel

- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to BAR FLUSH position
- POWER Switch ON
- Push START switch
- WASH PUMP Switch (optional) - ON

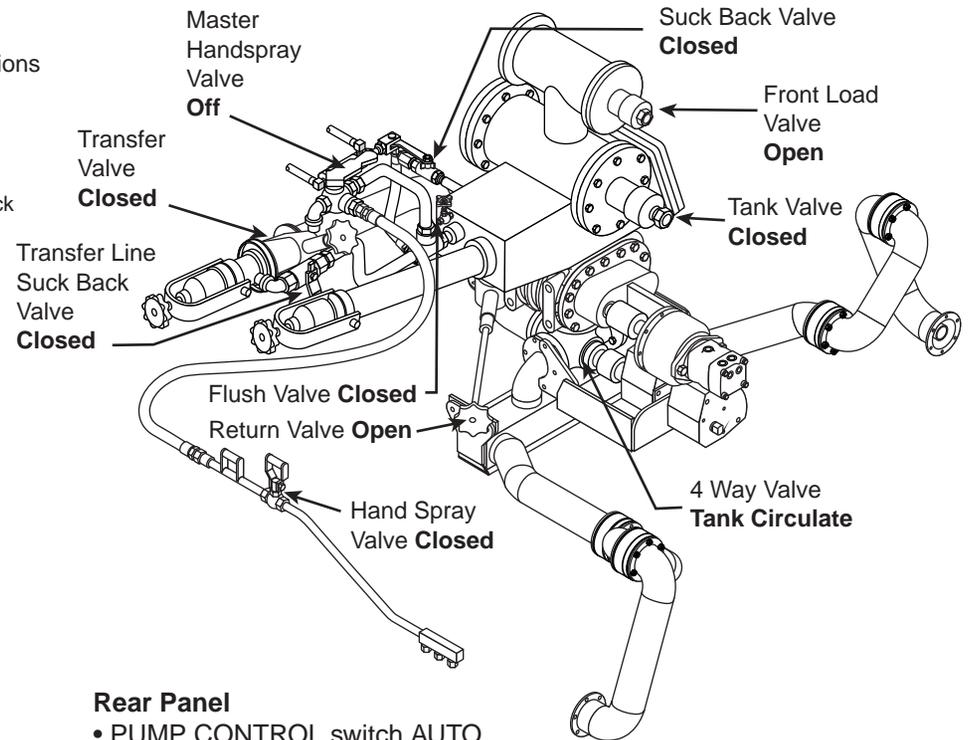
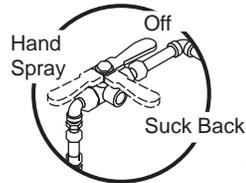


Front Load

(optional equipment)



Hand Spray Valve Positions



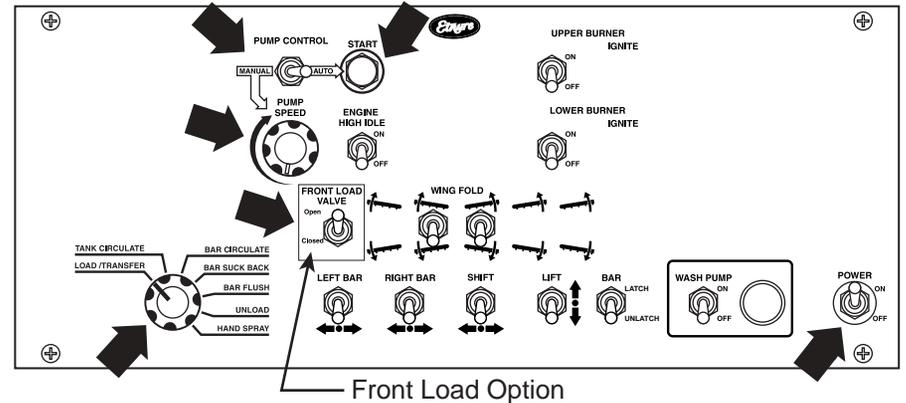
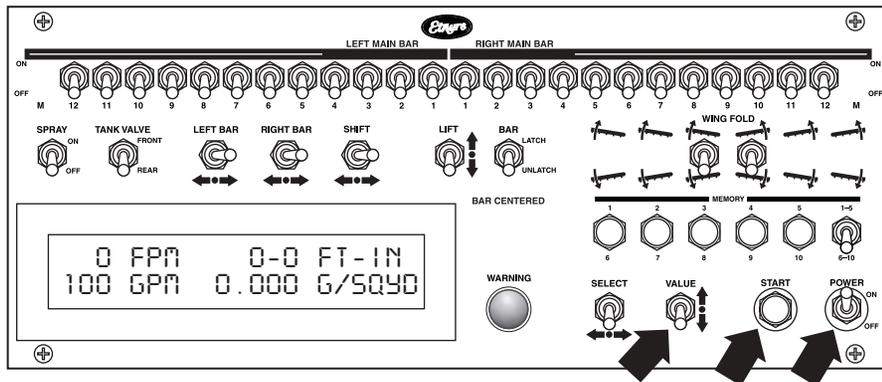
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Cab Panel

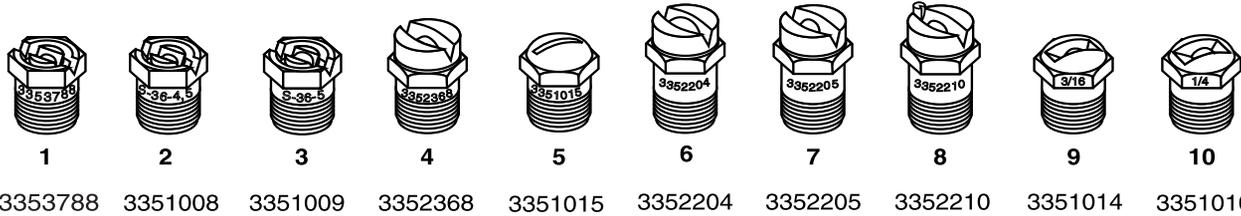
- POWER Switch ON
- 100 GPM - adjust using VALUE switch

Rear Panel

- PUMP CONTROL switch AUTO
- PUMP SPEED knob zero (fully counterclockwise)
- Function Switch to LOAD/TRANSFER position
- POWER Switch ON
- Push START switch
- FRONT LOAD switch (optional) - OPEN



Etnyre Spray Bar Nozzles



Ref.	Part No.	Description	Application Gallons Per Square Yard	Application (Metric) Liters Per Square Meter	US Flow Gallons Per Minute Per Foot
1	3353788	V Slot Tack Nozzle	.05 - .20	.23 - .91	3.0 to 4.5
2	3351008	S36-4 V Slot	.10 - .35	.45 - 1.58	4.0 to 7.5
3	3351009	S36-5 V Slot	.18 - .45	.81 - 2.04	7.0 to 10.0
4	3352368	Multi-Material V Slot	.15 - .40	.68 - 1.81	6.0 to 9.0
5	3351015	3/32" Coin Slot	.15 - .40	.68 - 1.81	6.0 to 9.0
6	3352204	Multi-Material V Slot	.35 - .95	1.58 - 4.30	12.0 to 21.0
7	3352205	Multi-Material V Slot	.20 - .55	.91 - 2.49	7.5 to 12.0
8	3352210	End Nozzle (3352205)	.20 - .55	.91 - 2.49	7.5 to 12.0
9	3351014	3/16" Coin Slot	.35 - .95	1.58 - 4.30	12.0 to 21.0
10	3351010	1/4" Coin Slot	.40 - 1.10	1.81 - 4.98	15.0 to 24.0