

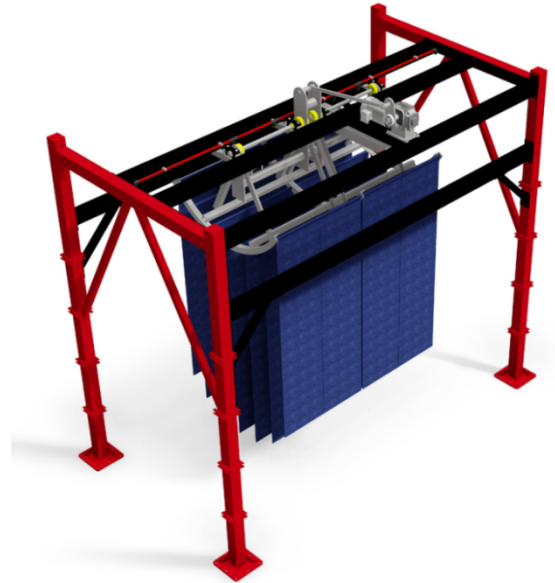


Light Touch & High-Pressure Wash Equipment Overview

Front-to-Back Mitter (SFM series)

1) Description

- a) One of the greatest advancements in car washing the last twenty years to clean the top surfaces of a vehicle. It cleans all horizontal surfaces.
- b) **Half-moon design** increases cloth movement on vehicle surface for better cleaning.
- c) Utilizes UHMW bearings for greater reliability and less maintenance.
- d) Utilizes 2 horsepower electric motor to drive basket movement, using a gear reducer.
- e) Single basket to concentrate cloth towards the centerline on the vehicle.
- f) Uses MicroClean cloth on entrance side to maximize cleaning abilities and uses Permacolor cloth on exit side to reduce potential damage to rear wipers.



2) Preventive Maintenance Requirements

a) DAILY

- (1) During Opening Checks, check for leaks around gear reducer.
- (2) Operational Checks
 - (a) Check for leaks around hoses and fittings. Repair any serious water or air leaks immediately.
 - (b) General examination of operation, listening for any unusual noises.
- (3) During Closing Checks, check condition of cloth. If dirty, clean with prep gun.

b) WEEKLY

- (1) Grease all rotational rod-end bearings with 1-2 pumps per bearing.
- (2) Check all nozzles for wear and replace if necessary.
- (3) Perform a close inspection of operating mechanisms and hoses for problems.
- (4) Check lubricant level in gear reducer and refill if necessary.

c) MONTHLY



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- (1) Inspect all UHMW bearings for wear and replace if necessary.
- (2) Inspect all hardware and fittings for tightness and clean the entire assembly thoroughly.

d) SEMI-ANNUALLY

- (1) Check cloth for wear or damage and replace as needed.

e) ANNUALLY (only applies if electrically driven)

- (1) Have a licensed electrician measure and record, full load current readings from each of the three legs of each of the three phase electric motors.
 - (a) If the differential of current load exceeds 10% between the legs, or the balanced load current of all three legs has increased over 10% since the most recent measurements, order a replacement motor.
- (2) Record readings in the annual log.
- (3) Grease all electric motors per manufacturers specifications.

b) Side-to-Side Mitter (SFM series)

1) Description

- a) The side-to-side action is designed to clean horizontal surfaces, using a different motion to catch areas the standard mitter might miss.
- b) Half-moon design increases cloth movement on vehicle surface for better cleaning. Flat basket model more simulates a hand wash motion.
- c) Utilizes UHMW bearings for greater reliability and less maintenance.
- d) Utilizes a 2-horsepower electric motor to drive basket movement, using a gear reducer.
- e) Dual and Quad basket designs create an overlapping motion to ensure all horizontal surfaces are thoroughly cleaned and buffed.





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2) Preventive Maintenance Requirements

a) **DAILY**

- (1) During Opening Checks, check for leaks around gear reducer.
- (2) Operational Checks
 - (1) Check for leaks around hoses and fittings. Repair any serious water or air leaks immediately.
- (3) General examination of operation, listening for any unusual noises.
- (4) During Closing Checks, check condition of cloth. If dirty, clean with prep gun.

b) **WEEKLY**

- (1) Grease all rotational rod-end bearings with 1-2 pumps per bearing.
- (2) Check all nozzles for wear and replace if necessary.
- (3) Perform a close inspection of operating mechanisms and hoses for problems.
- (4) Check lubricant level in gear reducer and refill if necessary.

c) **MONTHLY**

- (1) Inspect all UHMW bearings for wear. Replace if necessary.
- (2) Inspect all hardware and fittings for tightness and clean the entire assembly thoroughly.

d) **SEMI-ANNUALLY**

- (1) Check cloth for wear or damage and replace as needed.

e) **ANNUALLY** (only applies if electrically driven)

- (1) Have a licensed electrician measure and record, full load current readings from each of the three legs of each of the three phase electric motors.
 - (a) If the differential of current load exceeds 10% between the legs, or the balanced load current of all three legs has increased over 10% since the most recent measurements, order a replacement motor.
- (2) Record readings in the annual log.
- (3) Grease all electric motors per manufacturers specifications.



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c) Top Motor Side Washers (SF series)

1) Description

- a) Used to clean the **side surfaces** of a vehicle from the rocker panels to the body moldings on the tallest SUV's.
- b) The brush is angled toward the bottom on the vehicle to increase the coverage on the rocker panels.
- c) Shock absorbers are adjustable to change cloth penetration, which should be 3" to 4".
- d) Various sizes include 28" for concentrated cleaning below the window line on cars, 50" for increased cleaning on SUVs, and 63" for expanding the cleaning zone to better clean vans.
- e) The brush spins opposite the direction of travel of the vehicle to increase cleaning force and penetration.
- f) May utilize PermaColor or NeoGlide.
- g) Cleaning Pressure Adjustment
 - (1) The amount of pressure applied by the brush to the vehicle can be adjusted by changing the mounting position of the spring-loaded shock on the frame.
 - (2) Should apply a light pressure sufficient to remain in contact with vehicle and not bounce continuously. Should maintain approximately 3" to 4" of penetration.
- h) Rotation Speed Adjustment
 - (1) The rotation speed of the brush can be adjusted at the flow control on the hydraulic power pack.
 - (2) Should be plumbed properly to rotate against the travel of the vehicle.
 - (3) Speed should be set to
 - (a) 75-85 RPM for a conveyor speed of 60-99 CPH.
 - (b) 86-95 RPM for a conveyor speed of 100-150 CPH





Light Touch & High-Pressure Wash Equipment Overview

2) Preventive Maintenance Requirements

a) **DAILY**

- (1) During Opening Checks, check for leaks around hydraulic hoses and fittings. Repair any hydraulic leaks immediately.
- (2) Operational Checks
 - (a) Check for leaks around hoses and fittings. Repair any serious water or air leaks immediately.
 - (b) General examination of operation, listening for any unusual noises.
- (3) During Closing Checks, check condition of cloth. If dirty, clean with prep gun.

b) **WEEKLY**

- (1) Grease all rotational shaft bearings with 1-2 pumps per bearing.
- (2) Check all nozzles for wear and replace if necessary.
- (3) Perform a close inspection of operating mechanisms and hoses for problems.

c) **MONTHLY**

- (1) Grease all pivotal bearings with 1-2 pumps per bearing.
- (2) Inspecting all hardware and fittings for tightness and clean the entire assembly thoroughly.

d) **SEMI-ANNUALLY**

- (1) Check cloth for wear or damage and replace as needed.

e) **ANNUALLY** (only applies if electrically driven)

- a) Have a licensed electrician measure and record, full load current readings from each of the three legs of each of the three phase electric motors.
 - (1) If the differential of current load exceeds 10% between the legs, or the balanced load current of all three legs has increased over 10% since the most recent measurements, order a replacement motor.
 - (2) Record readings in the annual log.
 - (3) Grease all electric motors per manufacturers specifications.



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d) Bottom Motor Side Washers (SFB series)

1) Description

- a) Provides a way to get side cleaning action in a limited size tunnel.
- b) Motor placement does not inhibit cloth movement permitting installation under a mitter so as not to take up additional space.
- c) The hub design prevents pressure being applied to the motor shaft on even the tallest brushes.
- d) Sizes are available in 18", 21", 28", 35", 50", and 63" to customize the cleaning zone.
- e) Shock absorbers are adjustable to change cloth penetration, which should be 3" to 4".
- f) The brush spins opposite the direction of travel of the vehicle to increase cleaning force and penetration.
- g) May utilize PermaColor or NeoGlide.



2) Adjustments

- a) Cleaning Pressure Adjustment
 - (1) The amount of pressure applied by the brush to the vehicle can be adjusted by changing the mounting position of the spring loaded shock on the frame.
 - (2) Should apply a light pressure sufficient to remain in contact with vehicle and not bounce continuously, having approximately 3-4 inches of penetration.
- b) Rotation Speed Adjustment
 - (1) The rotation speed of the brush can be adjusted at the flow control on the hydraulic power pack.
 - (2) Should be plumbed properly to rotate against the travel of the vehicle.
 - (3) Speed should be set to
 - (a) 75-85 RPM for a conveyor speed of 60-99 CPH.



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(b) 86-95 RPM for a conveyor speed of 100-150 CPH.

3) Preventive Maintenance Requirements

a) **DAILY**

- (1) During Opening Checks, check for leaks around hydraulic hoses and fittings, repair any hydraulic leaks immediately.
- (2) Operational Checks
 - (a) Check for leaks around hoses and fittings. Repair any serious water or air leaks immediately.
 - (b) General examination of operation, listening for any unusual noises.
- (3) During Closing Checks, check condition of cloth. If dirty, clean with prep gun.

b) **WEEKLY**

- (1) Grease all rotational shaft bearings with 1-2 pumps per bearing. Position of motor makes servicing more difficult, **but holes have been provided in the hub to make reaching the grease fitting easier.**
- (2) Check all nozzles for wear and replace if necessary.
- (3) Perform a close inspection of operating mechanisms and hoses for problems.

c) **MONTHLY**

- (1) Grease all pivotal bearings with -1-2 pumps per bearing.
- (2) Inspecting all hardware and fittings for tightness and clean the entire assembly thoroughly.

d) **SEMI-ANNUALLY**

- a) Check cloth for wear or damage and replace as needed.

e) **ANNUALLY** (only applies if electrically driven)

- (1) Have a licensed electrician measure and record, full load current readings from each of the three legs of each of the three phase electric motors.
 - (a) If the differential of current load exceeds 10% between the legs, or the balanced load current of all three legs has increased over 10% since the most recent measurements, order a replacement motor.
 - (b) Record readings in the annual log. Grease all electric motors per manufacturers specifications.



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e) Front Grill Washers (SF series)



1) Description

- a) Especially designed to provide enough cleaning power and cloth penetration to hard-to-reach areas with no risk of damaging license plates or delicate grill features.
- b) Utilizes a gentle pivoting arm with a counterbalance to accomplish grill area cleaning before pivoting to wash the side of the vehicle.
- c) Uses NeoGlide cloth and **opposite rotation** to extend dwell time at the front of the vehicle, increasing the cleaning power.

2) Adjustments

- a) Cleaning Pressure Adjustment
 - (1) The amount of pressure applied by the brush to the vehicle can be adjusted by changing the mounting position of the bearings on the frame and by air pressure adjustments.
 - (2) Should apply a light pressure sufficient to remain in contact with vehicle and not bounce continuously, having approximately 3-4 inches of penetration.
- b) Rotation Speed Adjustment



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- (1) The rotation speed of the brush can be adjusted at the flow control on the hydraulic power pack.
- (2) Should be plumbed properly to rotate against the travel of the vehicle.
- (3) Speed should be set to
 - (a) 75-85 RPM for a conveyor speed of 60-99 CPH.
 - (b) 86-95 RPM for a conveyor speed of 100-150 CPH.

3) Preventive Maintenance Requirements

a) **DAILY**

- (1) During Opening Checks, check for leaks around hydraulic hoses and fittings, and repair any hydraulic leaks immediately.
- (2) Operational Checks
 - (a) Check for leaks around hoses and fittings. Repair any serious water or air leaks immediately.
 - (b) General examination of operation, listening for any unusual noises.
 - (c) Observe retract operation. It should be smooth and retract completely.
- (3) During Closing Checks, check condition of cloth. If dirty, clean with prep gun.

b) **WEEKLY**

- (1) Grease all rotational shaft bearings with 1-2 pumps per bearing.
- (2) Check all nozzles for wear and replace if necessary.
- (3) Perform a close inspection of operating mechanisms and hoses for problems.
- (4) Spray lubricant on cylinder rod ends and clevises.

c) **MONTHLY**

- (1) Grease all pivotal bearings with 1-2 pumps per bearing.
- (2) Inspect all hardware and fittings for tightness and clean the entire assembly thoroughly.



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d) SEMI-ANNUALLY

(1) Check cloth for wear or damage and replace as needed.

e) ANNUALLY (only applies if electrically driven)

(1) Have a licensed electrician measure and record, full load current readings from each of the three legs of each of the three phase electric motors.

(a) If the differential of current load exceeds 10% between the legs, or the balanced load current of all three legs has increased over 10% since the most recent measurements, order a replacement motor.

(b) Record readings in the annual log.

(c) Grease all electric motors per manufacturers specifications.

f) Wrap-Around Washers (SF series)

1) Description

- a) Wrap-around design features a **restricted universal joint** that delivers safe navigation around mirrors, antennas, and rear wiper blades.
- b) The narrow 6" uni-hub reduces weight for gentler cleaning and soft stop bumpers to achieve safer and smoother operations.
- c) **The brush spins with the direction of travel of the vehicle** so the brush will rotate off the front of the vehicle and not try to climb the hood.

d) May utilize a variety of wash media.

e) Options

- (1) Exit Wraps concentrate cleaning on rear and sides, with excellent front cleaning.
- (2) Entrance Wraps concentrate cleaning on front and sides, with excellent rear cleaning.
- (3) Jog frame option allows for higher car volume.
- (4) Double jog arms keep more of the cloth in contact with the sides of taller vehicles by reducing the angle of attack.





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2) Adjustments

a) Foamer Adjustment

- (1) Fine adjustment to the foam consistency can be accomplished at the individual foamers. Each has an air and solution adjustment.
- (2) Wet, lubricating foam is desired as it will lubricate the material and not drag on vehicle parts, pulling them off.

b) Cleaning Pressure Adjustment

- (1) The amount of pressure applied by the brush to the vehicle can be adjusted by changing the air pressure.
- (2) Should apply a light pressure sufficient to remain in contact with vehicle and not bounce continuously, having approximately 3-4 inches of penetration.

c) Rotation Speed Adjustment

- (1) The rotation speed of the brush can be adjusted at the flow control on the hydraulic power pack.
- (2) Should be plumbed properly to rotate with the travel of the vehicle.

See owner's manual for proper RPM and inward wash pressures according to chain speed.

3) Preventive Maintenance Requirements

a) **DAILY**

- (1) During Opening Checks, check for leaks around hydraulic hoses and fittings. Repair any hydraulic leaks immediately.
- (2) Operational Checks
 - a) Check for leaks around hoses and fittings. Repair any serious water or air leaks immediately.
 - b) General examination of operation, listening for any unusual noises.
 - c) Observe retract operation. It should be smooth and retract completely.
- (3) During Closing Checks, check condition of cloth. If dirty, clean with prep gun.

d) **WEEKLY**

- (1) Grease all rotational shaft bearings with 1-2 pumps per bearing.



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- (2) Check all nozzles for wear and replace if necessary.
- (3) Perform a close inspection of operating mechanisms and hoses for problems.
- (4) Spray lubricant on cylinder rod ends and clevises.

e) MONTHLY

- (1) Grease all pivotal bearings with 1-2 pumps per bearing.
- (2) Inspect all hardware and fittings for tightness and clean the entire assembly thoroughly.

f) SEMI-ANNUALLY

- (1) Check cloth for wear or damage and replace as needed.

g) ANNUALLY (only applies if electrically driven)

- (1) Have a licensed electrician measure and record, full load current readings from each of the three legs of each of the three phase electric motors.
 - (a) If the differential of current load exceeds 10% between the legs, or the balanced load current of all three legs has increased over 10% since the most recent measurements, order a replacement motor.
 - (b) Record readings in the annual log.

Grease all electric motors per manufacturers specifications.