CAMERAWASH **Additional Nozzle**

U.S. Patents 6,554,210 & 6,199,773



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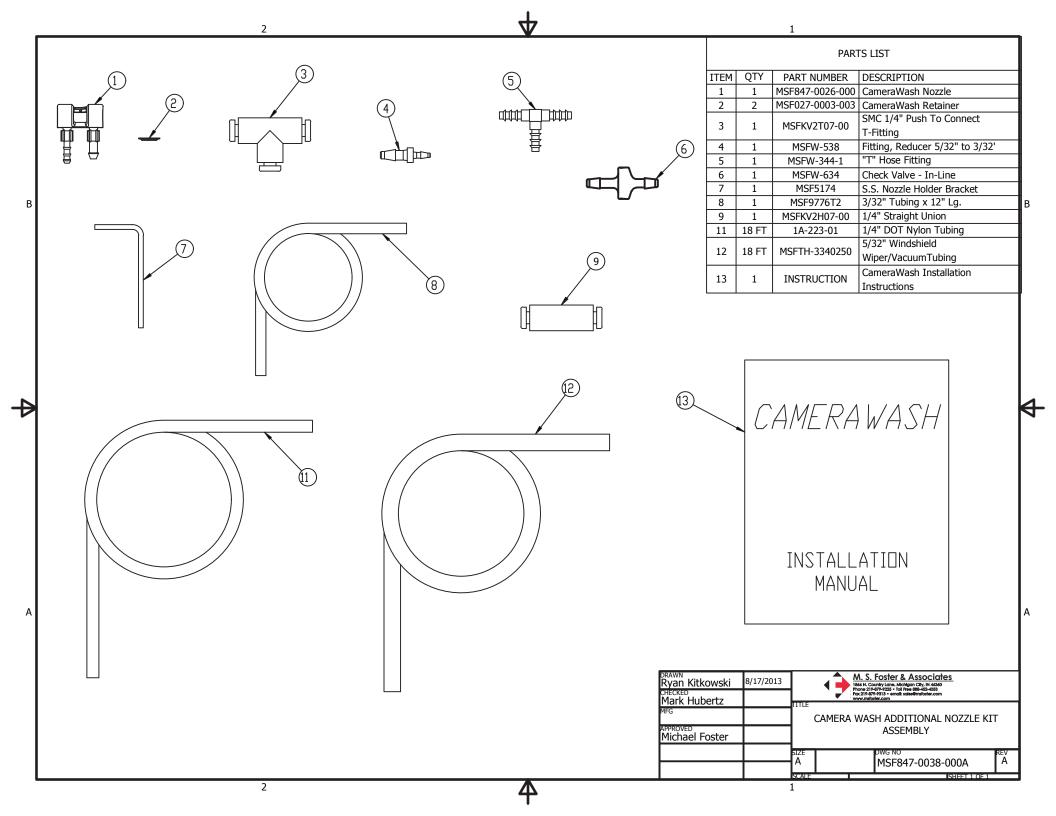
INSTALLATION GUIDE

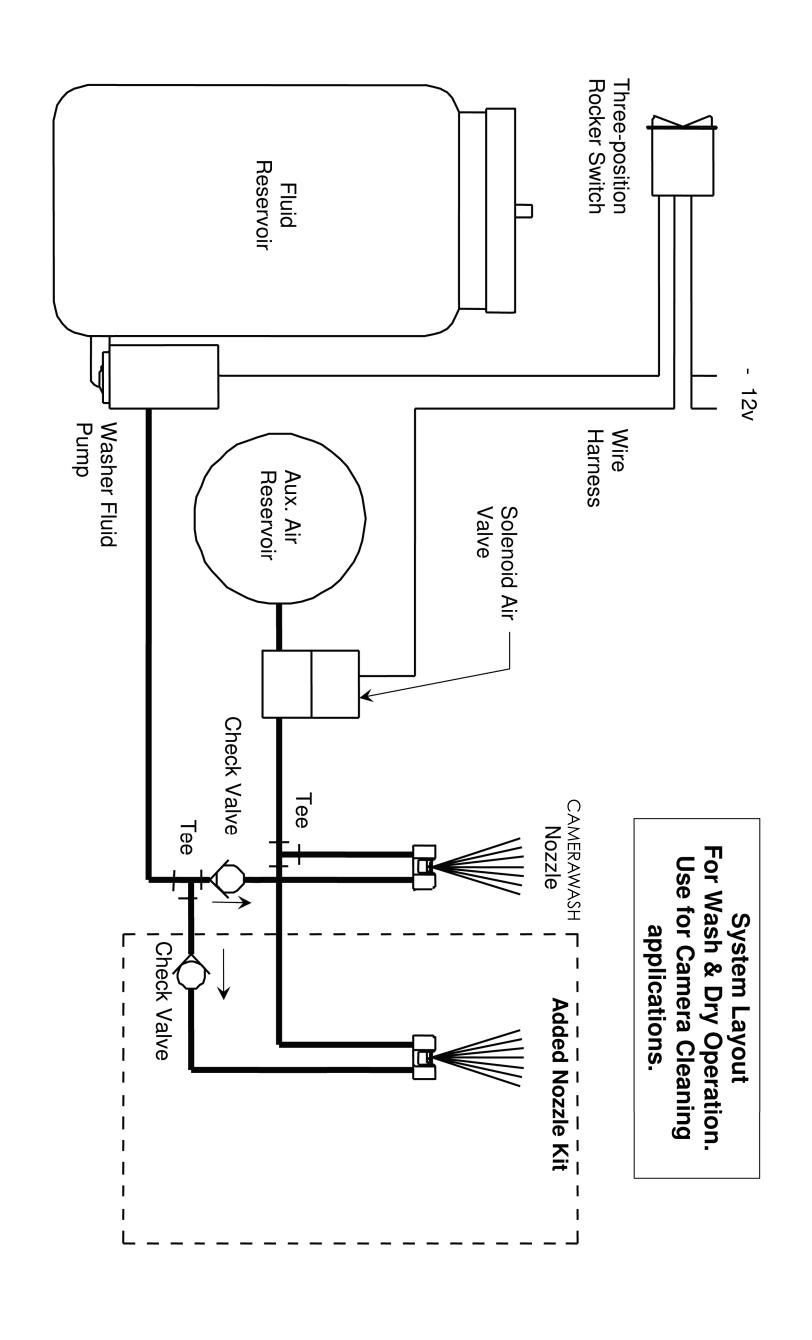


Another Convenience Product from

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Installation Instructions CAMERAWASHTM – Additional Nozzle

These instructions describe the installation of an additional Nozzle to a CAMERAWASH system. Up to four (4) Nozzles may be used with each Pump and Solenoid pair.

- Step 1. Cut into the air and fluid delivery lines from the Reservoir and Solenoid that go to the first Nozzle and insert the appropriate tee fittings. Make sure that the fluid line splice is into the larger (5/32" I.D.) rubber tubing and not the smaller tubing.
- Step 2. Route the air and fluid delivery lines from the tees to the additional Nozzle location. Avoid sharp edges and kinks. Route so as to avoid tubing damage in normal use.
- Step 3. Locate the Nozzles as instructed in the CameraWash kit instructions.
- Step 4. **Nozzle Location:** The Nozzles can be aimed up, down, or sideways. The primary consideration is to have the Nozzle within 4 inches of the lens, and 1" to 2" ahead of it.

Nozzle Adjustment: The Nozzle spray Step 5. direction is adjustable over 125°. Preadjust the Nozzle before installing 125° to spray in the direction needed. Always use a 5/16" wide, flat head screwdriver (in good condition) to adjust the Nozzles. Hold the Nozzle securely, against a **Adjustable** solid surface and Spray turn slowly, applying **Direction** generous downward force to prevent the bit from slipping out of the slot.

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Step 6. Insert the Nozzles into the nozzle bracket. Position the Nozzles so that the fluid and air outlets are facing the camera. You may need to access the adjustment slot later, so make sure it is easily

Fluid and

Air Outlets

Adjustment

Slot

Once the Retainers are installed, they cannot be reused. To install them use a 5/16" or 8mm hex deep socket; push the Retaining Washers onto the Nozzle hose barbs until the Retainers Nozzle fits snuggly onto the bracket.

accessible.

Step 7. Install the 18" piece of 3/32" ID rubber Tubing to the Nozzle

fluid fitting. (The fluid fitting has three barbs.) Attach the nylon Tubing to the Nozzle air fitting. The air fitting is shorter, has one single barb, and is label "AIR".

Check to make sure that the air and fluid lines are connected to the correct barbs. Install the Check Valve between the small rubber tubing to the nozzle and the larger rubber tubing from the pump. Make sure the arrow is pointing away from the Pump.

NOTE: If more tubing is needed, use .156" (5/32") I.D. Windshield Washer Tubing for the rubber tubing and use 1/4" O.D. SAE J844 Nylon tubing for the air lines.

- Step 8. Attach the bracket to the vehicle.
- Step 9. Install the Check Valve near the Nozzle. Make sure the arrow points toward the Nozzle.