## Water / Alcohol / Methanol Injection Parts List

Here are all of the parts that you'll need to build this system. As you'll see this kit is modular and allows for different pump, nozzle and tank options depending on your needs. Also, I've done my best to make the items on this list affordable and easy to find.

| Item   | Vendor                     | Price                | Notes   |
|--|----------------------------|----------------------|---|
| Water/Alcohol/Methanol Pump O  | ptions: All of these       | pumps are exc        | ellent and will perform well for a long time. Choose the one that best suits your needs. For high   |
|  |                            |                      | endors who specilize in high performance pumps below.   |
|  |                            |                      | 60psi 1.0 GPM, Mounts in any position, adjustable demand switch (pressure can be                    |
|  |                            |                      | increased to 80-100psi), Viton valves and Santoprene diaphragm to resist corrosion.                 |
|  |                            |                      | Compatible with 100% water or 50/50 water and denatured alcohol. This pump is extremely             |
| SHURflo pump #8009-543-236   | Northern Tool              | \$59.99              | reliable. I have been using them since 1999 with no failures or problems whatsoever.                |
| · · ·  |                            |                      | 60psi 1.8 GPM, Mounts in any position, adjustable demand switch (pressure can be                    |
|  |                            |                      | increased to 80-100psi), Viton valves and Santoprene diaphragm to resist corrosion.                 |
|  |                            |                      | Compatible with 100% water or 50/50 water and denatured alcohol. Similar to the one                 |
| SHURflo pump #8009-543-236   | CoolingMist.com            | \$79.99              | above, but with a higher GPM rating.  |
| Devil's Own Pump   | alcohol-injection.com      | \$99.95              | 150psi, Methanol Compatible.  |
|  |                            |                      | 200psi, Methanol Compatible. I use this pump in my 500+hp car and it has performed                  |
| CoolingMist Pump   | CoolingMist.com            | \$139.95             | flawlessly for years.   |
|  |                            |                      |   |
|  |                            |                      | nozzles available in the last few years. Below are two types that I've had very good results with   |
|  |                            |                      | he McMaster-Carr nozzles are inexpensive, perform well, but require more fittings to install.       |
| Γhe CoolingMist fittings are 6 times the co  | st of a McMaster-Cari      | r unit, but are e    | easier to install and are great performers. If you're unsure on the best nozzle size for you, start |
| smaller and work your way up.  |                            |                      |   |
|  |                            |                      | 3.1gph@40psi, 5.0gph@100psi. Good for small displacement engines in the 150-300hp                   |
| Small Nozzle: P/N 3178K75  | McMaster Carr              | \$4.00               | range.  |
|  |                            |                      | 6.32gph@40psi, 10.0gph@100psi. Good for small displacement engines in the 200-450hp                 |
| Medium Nozzle: P/N 3178K76   | McMaster Carr              | \$4.00               | range.  |
| DATE OF THE PART O | MaMartano                  | <b>0.4.00</b>        | 9.49gph@40psi, 15.0gph@100psi. Good for a large displacement engines making more                    |
| arge Nozzle: P/N 3178K77   | McMaster Carr              | \$4.00               | than 400hp.   |
|  |                            |                      | Sized from 1.3-12gph. Great quality with fewer fittings to install than the McMaster-Carr           |
| Cooling Mich com Novelog (verious since)   | Cooling Michoon            | <b>#22.0</b> F       | units. Pricey if you are unsure of what nozzle size you need though. Thankfully, they provide       |
| CoolingMist.com Nozzles (various sizes)  | CoolingMist.com            | \$23.95              | detailed flow data for each nozzle on their website.  |
| Electrical   |                            |                      |   |
|  |                            |                      | Route after the pump, before the nozzle. Assures that NO water will be sucked in until the          |
|  |                            |                      | switch activates and opens the solenoid. If you want a less expensive option, you can use a         |
|  |                            |                      | simple checkvalve. They can be found on the McMaster Carr website, from water injection             |
|  |                            |                      | vendors, as well as other sources. I am not including any additional information on                 |
| Vater Solenoid P/N# 7876K12  | McMaster Carr              | \$42.50              | checkvalves since I have no personal experience with them.  |
|  | omactor our                | ψ .Z.00              | P/N# 701-1575 This switch IS adjustable! Pop off the rubber cap on one end and adjust               |
|  |                            |                      | away! As an alternative, you can use electrical pressure switches. I've only used the hobbs         |
| Hobbs Pressure Switch  | Napa Auto Parts            | \$28.50              | switch above, so make sure you get a good, quality part if going this route.                        |
| Automotive 12V 30 Amp Relay  | Radio Shack                | \$5.00               | P/N# 275-226  |
|  |                            | ພູປ.ບບ               |   |
| z biade Type ruse noideis  |                            |                      |   |
| 2 Blade Type Fuse Holders<br>3 pack 20Amp Blade Type Fuses   | Radio Shack<br>Radio Shack | \$4.00               | P/N# 270-1213<br>P/N# 270-1083  |
| 3 pack 20Amp Blade Type Fuses  | Radio Shack                | \$4.00<br>\$1.30 (2) | P/N# 270-1213   |
| 3 pack 20Amp Blade Type Fuses Lighted (or regular) On/Off Switch Assorted Electrical Connectors  | Radio Shack<br>Radio Shack | \$4.00               | P/N# 270-1213<br>P/N# 270-1083  |

| Water/alcohol plumbing: Thes  | se items will be used to co | nnect the supply | tank to the pump, the pump to the solenoid and the solenoid to the nozzle.  |  |  |  |
|---|-----------------------------|------------------|---|--|--|--|
| Brass Fitting   | Auto Parts Store            | \$3.00           | Brass-Tite! #43033, used for nozzle mount assembly  |  |  |  |
| Brass Fitting   | Auto Parts Store            | \$3.00           | Brass-Tite! #43231, used for nozzle mount assembly  |  |  |  |
| (6) 3/8" Brass Fittings   | Parts Store                 | \$12.00          | Brass-Tite! #43075, used for pump, water tank, water solenoid and nozzle mount assembly.  |  |  |  |
| 3/8 Fuel Injection Hose & Clamps  | Auto Parts Store            | \$15.00          | Use high pressure fuel injection hose only!   |  |  |  |
| Water/alcohol plumbing (cont.): Used to connect the supply tank to the pump, the pump to the solenoid and the solenoid to the nozzle. |                             |                  |   |  |  |  |
| Small O-Ring Gasket   | Auto Parts Store            | \$1.00           | To seal any gap between throttle body elbow and nozzle mount.   |  |  |  |
|   |                             |                  | I've used the stock washer fluid reservoir in many cars since it's a decent size and already mounted in the engine bay. Another inexpensive option is the coolant overflow jugs found at most parts stores. Lastly, you can go to your local "U-pull-it" salvage yard and find a nice jug out of an 80's import that will work perfectly. Price? \$5.00-\$15.00 Either way, insert a 3/8" fitting into the tank for free flow to the pump. Don't forget to use silicone on the threads of the |  |  |  |
| Water/Alcohol Tank  |                             | \$0-\$15.00      | fitting.  |  |  |  |
| Miscellaneous Parts: Last but not least, here are the remaining items you'll need.  |                             |                  |   |  |  |  |
| Denatured Alcohol   | Home Depot                  | \$10.00/gallon   | Only if you're using a 50/50 alcohol/water mix.   |  |  |  |
| Distilled Water   | Grocery Store               | \$1.00/gallon    | Use only distilled water, no tap water.   |  |  |  |
|   |                             |                  | Used to tap into a boost/vacuum hose on your engine. After tapping run a vacuum hose from the open end of the vacuum tee to the open end of the pressure switch.  |  |  |  |
| Vacuum Tee  | Parts Store                 | \$1.00           |   |  |  |  |