

Instruction Manual



P/N 30-3325 Water/Methanol Injection V2 1-Gallon Tank With Conductive Fluid Level Sensor*



STOP!

THIS PRODUCT HAS LEGAL RESTRICTIONS.
READ THIS BEFORE INSTALLING/USING!

IT IS THE RESPONSIBILITY OF THE INSTALLER AND/OR USER OF THIS PRODUCT TO ENSURE THAT IT IS USED IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IF THIS PRODUCT WAS PURCHASED IN ERROR, DO NOT INSTALL AND/OR USE IT. THE PURCHASER MUST ARRANGE TO RETURN THE PRODUCT FOR A FULL REFUND.

THIS POLICY ONLY APPLIES TO INSTALLERS AND/OR USERS WHO ARE LOCATED IN THE UNITED STATES; HOWEVER CUSTOMERS WHO RESIDE IN OTHER COUNTRIES SHOULD ACT IN ACCORDANCE WITH THEIR LOCAL LAWS AND REGULATIONS.

WARNING!

Improper installation and/or adjustment of this product can result in major engine/vehicle damage. For technical assistance visit our dealer locator to find a professional installer/tuner near you.

Note: AEM holds no responsibility for any engine damage or personal injury that results from the misuse of this product, including but not limited to injury or death caused by the mishandling of methanol.

*AEM's conductive fluid sensor is only compatible with the V2 controller and NOT with V1.

IMPORTANT SAFETY NOTICE REGARDING METHANOL

AEM *strongly* recommends that users never exceed a 50% methanol concentration when using any AEM Water/Methanol system or component.

All AEM water/methanol injection systems and components (pump, lines, fittings, filter, flow sensor, tank, and nozzles) are 100% chemically compatible with methanol. However, for safety reasons we strongly recommend that users never use more than a 50% methanol concentration in our systems.

Methanol is a toxic and highly flammable chemical. 100% methanol ignites easily and burns vigorously with an almost undetectable flame. Methanol can be absorbed through the skin, and even small amounts can cause blindness or even death. Using this fluid at high pressures, without dilution, in an under-hood environment with nylon lines and push-to-connect fittings is very unsafe. The performance advantages of using greater than 50% methanol concentrations are small, if they exist at all. However, the safety issues are very real and far outweigh any perceived benefit of running high concentrations of methanol.

Note: AEM holds no responsibility for any engine damage or personal injury that results from the misuse of this product, including but not limited to injury or death caused by the mishandling of methanol.

INSTALLATION

Tank Install



Find a suitable location to mount the tank and pump. The tank **must** be mounted such that it is below the injection point. **Failure to do so may lead to fluid leaking into the intake tract due to gravity or siphoning, which may result in engine damage.** The tank and pump must be mounted in the same area. Pump may be mounted on exterior of vehicle but should be mounted away from wheel wells or other areas where it will come into direct contact with water or road debris. Pump failures that have clearly been caused by exposure to water/mud/debris will not be covered under warranty. This includes, but is not limited to, the bed of a truck and the inside of the fender wells. Find a location where the pump will remain dry. Use 4 of the 8 supplied #8 sheet metal screws along with the 4 large washers or the 5/16-18 bolts and Nylock nuts to mount the 1.15-gallon tank.

(Optional 5-Gallon Tank Install)

Before mounting the tank, check the area under the desired mounting location for fuel tanks, fuel lines, or any other obstructions. Mount the tank in an upright level position as shown below. Mark the four mounting points and drill with a 3/8" bit. Use the supplied 5/16-18 bolts, nuts, and large OD flat washers for mounting the tank into your vehicle. **IMPORTANT:** Use the supplied large OD washer to spread the load on the plastic mounting ears of the tank. **DO NOT OVERTIGHTEN!** Nuts should just be snug; they are locking nuts and will not loosen. Overtightening will crack the plastic and cause leaks and void the warranty.



CORRECT





Note: All tanks are tested for leaks during assembly. A special sealant adhesive is used to bond the plastic tank to the metal fitting. **DO NOT** attempt to tighten the fitting any further!

Pump/Tank Flush

After all wires are hooked up, add water to the tank and, with the hose pointed into a container, press and hold the TEST push button on the controller module. The TEST button can be used to test the system. The pump speed will gradually increase from zero to full speed within 3 seconds and then remain full for another 3 seconds before stopping. Repeat the TEST button procedure until you are sure the system is free of any debris that may have been in the lines or tank. Drain the water out of the tank and refer to the next section on installing the nozzle.

OPTIONAL SYSTEM UPGRADES

Water/Methanol Injection FAILSAFE Device – AEM P/N 30-3020/30-3020M



Actively monitors the entire flow curve independent of pressure, continuously collecting flow vs. injection rate data so that any deviation from your established flow curve will trigger an alarm output that can be used to reduce boost or timing, change maps, add fuel, trigger a two-step, or perform practically any action you choose to save your engine. It is PC programmable (with USB connectivity) which eliminates the guesswork when setting min/max threshold parameters. **HIGHLY RECOMMENDED** for all water/methanol injection systems.

Water/Methanol Injection Flow Gauge – AEM P/N 30-5141/30-5142



Displays flow rate data on a smooth moving needle-type gauge that allows you to accurately monitor the status of your injection system in real time. Available in max flow rates of 500 cc/min or 1000 cc/min with a black or white face. The AEM water/methanol injection filter is **HIGHLY RECOMMENDED** when using this flow gauge.

Water/Methanol Injection Filter – AEM P/N 30-3003



Inline filter that uses a micron mesh screen to filter out particles as small as 40 microns. Allows a cleaner flow of water/methanol into the injection pump, lines, and nozzles increasing overall system longevity. Injection filter is **HIGHLY RECOMMENDED** when using the AEM water/methanol injection flow gauge.

Additional Nozzle Kit – AEM P/N 30-3312



Includes one nozzle body, two jet sizes, and the necessary hardware to run a second nozzle in your injection system.

5-Gallon Tank – AEM P/N 30-3320



Upgrade to a 5-gallon tank to maximize your fluid holding capacity. Includes level sensor and mounting hardware.