



Water/Methanol Injection Nozzle Kit 30-3312



WARNING:

Improper installation and/or adjustment of this product can result in major engine/vehicle damage! Use of this injection system requires proper tuning! Use this system with **EXTREME** caution! If you are uncomfortable with anything about this, please refer the installation to an AEM trained tuning shop or call 800-423-0046 for technical assistance. You should also visit the AEM Performance Electronics Forum at <http://www.aemelectronics.com>

NOTE: AEM holds no responsibility for any engine damage that results from the misuse of this product!

This product is legal in California for racing vehicles only and should never be used upon a highway. This product is legal solely for vehicles used in competition which may never be used upon a public road or highway.

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Instruction Part Number: 10-3312 Rev A
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Injector Nozzle Kit:		
Description	#	Part #
Jet, Medium (500 cc/min)	1	35-4514-02
Jet, Small (250 cc/min)	1	35-4514-04
Jet, Large (1000 cc/min)	1	35-4514-05
Nylon Washer	2	35-4517
Injector Body	1	35-4515-2
H2O Nozzle	1	35-4545
H2O INJ CHECK VALVE INTERNAL	1	35-4530
FITTING, 1/8 NPTM TO 1/4 TUBE	1	35-4531
O-RING, H2O CHECK VALVE SEAL	1	35-4538
FITTING, T, 1/4 x 1/4	1	35-4504
HOSE, NYLON, 1/4 OD, BLACK	1	35-4500

Nozzle Selection and Assembly

This injection kit includes three different sized injection jets that cover a very large range of horsepower levels. Use the following chart to select the appropriate jet for your power level. The kit comes with one medium nozzle already preassembled.

HP	Fuel Flow N/A (.5 BSFC)	Fuel Flow F/I (.7 BSFC)	W/M Flow N/A	W/M Flow 5-10psi Boost	W/M Flow 10-25psi Boost	W/M Flow 25+psi Boost
150	788	1101	95	220	275	330
200	1050	1469	126	294	367	441
250	1313	1836	158	367	459	551
300	1575	2203	189	441	551	661
350	1838	2570	221	514	642	771
400	2100	2937	252	587	734	881
450	2363	3304	284	661	826	991
500	2625	3671	315	734	918	1101
550	2888	4038	347	808	1010	1212
600	3150	4406	378	881	1101	1322
650	3413	4773	410	955	1193	1432
700	3675	5140	441	1028	1285	1542
750	3938	5507	473	1101	1377	1652
800	4200	5874	504	1175	1469	1762
850	4463	6241	536	1248	1560	1872
900	4725	6608	567	1322	1652	1983
950	4988	6976	599	1395	1744	2093
1000	5250	7343	630	1469	1836	2203

Nozzle
250
500
1000
1000 + 500
1000 + 1000

The nozzles are serviceable and can be disassembled for cleaning. If you find excessive debris in the screen, check your tank for contamination. When installing the screen it is only necessary to be slightly tighter than finger tight. **Do not over-tighten.** The nylon washers are reusable but a spare is included.



Nozzle Mounting

Select the location where the nozzle will be installed. **Nozzle should be mounted such that it is higher than the tank.** Nozzle must be mounted **before** the throttle plate. Nozzle should also be mounted **after** the MAF sensor if present. Nozzle must also be mounted **after** any intercoolers. In most instances, mounting the nozzle 6-8" ahead of the throttle body provides an excellent combination of air charge cooling and combustion control.



Nozzle installed before the throttle plate, after the MAF and any intercoolers.

In most instances, the air charge piping can be drilled and tapped for 1/8" NPT to directly mount the nozzle. If using thin walled tubing it's suggested that a bung be welded to the piping. Mounting hole should be tapped deep enough to allow the end of the nozzle to be nearly flush with the interior of the intake once the nozzle is fully installed.

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 micronic 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 30-3012



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 30-3010



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

AEM Electronics warranty

Advanced Engine Management Inc. warrants to the consumer that all AEM High Performance products will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fail within this 12-month warranty period will be repaired or replaced at AEM's option, when determined by AEM that the product failed due to defects in material or workmanship. This warranty is limited to the repair or replacement of the AEM part. In no event shall this warranty exceed the original purchase price of the AEM part nor shall AEM be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12-month warranty period. Improper use or installation, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM. Warranty returns will only be accepted by AEM when accompanied by a valid Return Merchandise Authorization (RMA) number. Product must be received by AEM within 30 days of the date the RMA is issued.

Please note that before AEM can issue an RMA for any electronic product, it is first necessary for the installer or end user to contact the EMS tech line at 1-800-423-0046 to discuss the problem. Most issues can be resolved over the phone. Under no circumstances should a system be returned or a RMA requested before the above process transpires.

AEM will not be responsible for electronic products that are installed incorrectly, installed in a non-approved application, misused, or tampered with.

Any AEM electronics product can be returned for repair if it is out of the warranty period. There is a minimum charge of \$50.00 for inspection and diagnosis of AEM electronic parts. Parts used in the repair of AEM electronic components will be extra. AEM will provide an estimate of repairs and receive written or electronic authorization before repairs are made to the product.