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Water/ Methanol Injection Kit
Turbo Bike



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Benefits

- Reduces intake manifold air temperature.
- Prevents piston damage by lowering exhaust gas temperatures (EGT).
- Increases effective octane rating, reducing engine knock.
- Improves dynamic compression.
- Enhances combustion efficiency.
- Reduces harmful emissions: CO, CO₂, NO_x, and HC.

Features

- LED indicator activates when the pump starts; activation level is adjustable.
- Latest-generation digital electronic controller.
- Electronically controlled high-pressure diaphragm pump.
- All components manufactured from methanol-resistant materials.
- Simple installation with plug-and-play style connectors.
- Optional low-pressure transfer pump available.
- Optional horizontal float switch for added safety.

Turbo Bike (Forced Induction Gasoline Engines with Boost Switch)

- The operation: the system starts injecting when the boost switch reaches the user-adjustable point and it injects a fixed amount of fluid through the nozzle until the switch opens again.
- The new integrated optional solenoid valve and nozzle assembly provide 100% safety for installations with:
 - Rear-mounted reservoirs,
 - Injection points under vacuum, or
 - Installations where the nozzle is positioned lower than the reservoir.
- The Check Valve or optional Solenoid valve is mounted between the pump and injection point, preventing unwanted fluid flow when not in use.
- Fast-reacting solenoid design ensures injector-style precision.
- All metal components are corrosion-resistant: nickel-plated brass, brass, and EPDM-grade plastic.

Warranty

All products are covered by a 2-year warranty against manufacturing defects from the date of delivery.

Electrical Connections

Color	Function	Section (mm ²)	Length
Yellow	+12V Battery	0.75	1 m
Pink	+12V Ignition Switch	0.25	1 m
Black	Ground (0V)	0.75	1 m
Blue	Pump (+)	0.50	4.5 m
Brown	Pump (-)	0.50	4.5 m
Red	Solenoid +	0.34	2.5 m
Black	Solenoid -	0.34	2.5 m
Green	WOT Switch	0.25	1 m
Purple	WOT Switch	0.25	1 m
Orange	LED +	0.25	1 m
White	LED -	0.25	1 m

Box Contents

1. High-Pressure Diaphragm Pump
2. 2 × Pump Fittings
3. Nozzle
4. Nozzle Mounting Bung
5. 40-Micron Stainless Steel Filter
6. Filter Nut
7. Check Valve (Opt. Solenoid Valve w/Fittings)
8. 1/8" NPT → 1/4" Elbow Female Fitting
9. 1/8" NPT → 1/4" Fitting
10. 1/8" Nut
11. Plastic 4mm Tee Fitting
12. Plastic Tank
13. Tank Cap
14. 10 ft (3 m) 1/4" OD Injection Hose
15. Adjustable Boost Pressure Switch
16. Controller with Wiring Loom
17. 2 × fully insulated female cable connectors
18. 2 × Fully Insulated Butt Cable Connectors
19. Fully Insulated Ground Cable Connector
20. LED Holder
21. 5 × Zip Ties
22. 3 × Screws & Washers for Tank
23. 4 × Screws & Washers for Pump
24. 3D Sticker
25. Product Stickers
26. Installation Manual

Installation Requirements

- Flathead screwdriver
- Side cutters
- Wrenches

Installation Guide

- Route the water/methanol hose to the engine bay, avoiding sharp edges and hot surfaces.
- Mount the injection pump below and under the tank.
- Weld the nozzle bung onto the intake pipe at a 90° angle, minimum 10 cm before the throttle body.
- Mount the ON/OFF switch and LED indicator inside the cabin, easily accessible to the driver.

Nozzle Sizing Guide

- 100% Water: 10–15% Water/Fuel ratio → 0.5–1 cc per HP
- 50/50 Water-Methanol: 15–20% ratio → 1–1.5 cc per HP
- 100% Methanol: 20–25% Methanol/Fuel ratio → 1.5–2 cc per HP

Example:

- 100 HP engine using only water → ~50 cc/min nozzle.
- 100 HP engine using 50/50 mix → ~100 cc/min nozzle.

(If unspecified, kit includes a 50 ml/min nozzle by default.)

⚙️ Operation & Settings

- The adjustment knob is the flathead screw center of the boost switch;
- When the adjustment knob turns clockwise, it increases the boost pressure to working.
- When the adjustment knob turns counter-clockwise, it decreases the boost pressure to the working of the system.
- When the pump activates, the cockpit LED glows orange.
- To disable the system, turn off the ON/OFF switch.

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