

# bosphorus

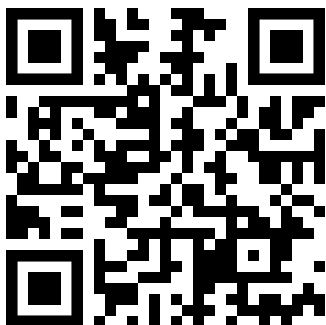


innovations

# bosphorus

**Water/ Methanol Injection Kit**  
**Stage 1.5 Turbo LCD**

You can see the installation video using QR code:



## Product Benefits


- Reduces intake manifold temperature
- Lowers Exhaust Gas Temperature (EGT) to prevent piston melting
- Increases effective octane to eliminate knocking
- Improves dynamic compression
- Enhances combustion efficiency
- Reduces CO, CO<sub>2</sub>, NO<sub>x</sub> and HC emissions

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## Key Features

- LED indicator activates when the pump starts; fully adjustable injection level
- Latest-generation digital electronic control system
- Electronically controlled pump driver
- All components manufactured from methanol-resistant materials
- Quick and easy installation with dedicated plug-in connectors
- Optional low-pressure transfer pump
- Optional horizontal float switch

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 The Stage 1.5 Water/Methanol Injection Controller by Bosphorus Innovations combines a boost gauge, water-methanol controller, and fail-safe system into a single compact unit.

### Integrated MAP Sensor

- Built-in 10 bar / 145 psi manifold absolute pressure sensor
- Adjustable injection start point based on desired boost pressure
- Injection curve can be tailored to engine requirements

### Advanced Dual-Tone LCD Display

White/red dual-tone LCD provides high visibility for:

- Boost pressure
- Injection status
- Test mode
- Fault codes
- Response time
- Resolution
- Fine adjustment
- Power-saving mode
- Key lock
- Output modes

### High-Performance Injection Pump

- No pressure cut-off switch; eliminates oscillation/pulsation
- Internal bypass system ensures smooth and constant nozzle flow

### Durable Construction

All metal components are corrosion-resistant and produced from:

- Nickel-plated brass
- Brass
- EPDM-grade plastic

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## Wiring Specifications (Stage 1.5 Turbo)

Color	Function	Cable Size	Length
Yellow	Battery +12V	0.75 mm <sup>2</sup>	1 m
Black	Ground 0V	0.75 mm <sup>2</sup>	1 m
Pink	ACC +12V	0.25 mm <sup>2</sup>	1 m
Blue	Pump RED	0.50 mm <sup>2</sup>	4.5 m
Brown	Pump BLACK	0.50 mm <sup>2</sup>	4.5 m

Brown	LCD +	0.15 mm <sup>2</sup>	1 m
Blue	LCD -	0.15 mm <sup>2</sup>	1 m
Black	LCD Signal	0.15 mm <sup>2</sup>	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
8. 1/8" NPT → 1/4" Compression Female Fitting
9. 1/8" NPT → 1/4" Compression Fitting
10. 1/8" Nut
11. Plastic Tank
12. Tank Cap
13. 20 ft (6 m) 1/4" OD Injection Hose
14. Gauge controller
15. 5 mm – 1/4" fitting for gauge
16. Controller with Wiring Loom
17. 2 × Fully Insulated Butt Cable Connectors
18. Fully Insulated Ground Cable Connector
19. LED Holder
20. 5 × Zip Ties
21. 3 × Screws & Washers for Tank
22. 4 × Screws & Washers for Pump
23. 3D Sticker
24. Product Stickers
25. Installation Manual

### Installation Requirements

- Flathead screwdriver
- Side cutter
- Wrench set

### Installation Guide

#### Routing the Injection Line

Ensure the hose is routed away from sharp edges, hot components, and moving parts.

#### Pump Installation Options

Without a low-pressure transfer pump:

- Main pump must be installed in the trunk, below the tank level
- Tank must be positioned lower than the nozzle to avoid siphoning and dripping

With a low-pressure transfer pump:

- Main pump may be mounted in the engine bay

#### Pressure/Vacuum Connections

- Pressure switch must be wired into the pressure circuit
- Vacuum hose must be connected to the intake manifold

#### Nozzle Installation

- Nozzle thread: 1/8"-27 NPT male
- Nozzle bung must be welded on the charge pipe at 90° angle, at least 10 cm before the throttle body for optimal atomization

## Gauge Placement

- Must be mounted in clear view of the driver
- Easily accessible for adjustments

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## 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:

- 400 HP engine using only water → ~200 cc/min nozzle.
- 400 HP engine using 50/50 mix → ~400 cc/min nozzle.

*(If unspecified, kit includes a 252 ml/min (4GPH) nozzle by default.)*

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## Controller Adjustment

- Increase trigger level: press UP
- Decrease trigger level: press DOWN
- Exit menu: press M
- When pump activates, LCD turns red and OUT1 illuminates
- System can be disabled by switching it off

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## Warranty

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

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## Company Info

### Bosphorus Innovations


#### Headquarter


Prodimar İç ve Dış Tic. Elektronik San. Ltd. Şti.


Maltepe Street Alba Site No:12BI, Bayrampasa, Istanbul, TURKIYE

#### Warehouse


3260 Gorham Ave Suite 5954 Minneapolis, MN 55426, USA

 Phone: +90 212 544 3141 / +01 952 232 0677

 WhatsApp: +90 850 307 5458

 GSM: +90 535 942 8747

 Email: [info@bosphorusinnovations.com](mailto:info@bosphorusinnovations.com)

 Web: [www.bosphorusinnovations.com](http://www.bosphorusinnovations.com)