

# bosphorus



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



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**Water/ Methanol Injection Kit benefits:**

- Decrease the manifold temperature.
- Prevent from melting the pistons by decreasing EGT.
- Increasing the total number of octane prevents knocking.
- Increase the dynamic compression.
- Increase in combustion efficiency.
- Reduces carbon monoxide (CO) emissions.
- Reduces carbon dioxide (CO<sub>2</sub>) emission.
- Reduces NO<sub>x</sub> emissions.
- Reduces HC emissions.

**Water-Methanol Injection Kit features:**

- When the pump start, led turn on and you can set the desired level.
- Kit has the latest technology digital equipment.
- Electronically controlled pump controller.
- All parts produced by methanol durable materials.
- Easy installation with special plugs.
- Optional transfer pump offers up to use.
- Optional horizontal float switch.

**Stage 1.5+ Turbo:** The all-new stage 1.5 water-methanol injection controller from Bosphorus Innovations gives you the benefits of a boost gauge and water-methanol controller/ fail-safe all in one! The new controller comes with a built-in 10 bar/ 145 psi manifold absolute pressure sensor. That allows you to set water-methanol in desired boost pressure. The injection stage is adjustable to match what the engine requires.

The new green and red dual-tone color LCD screen shows boost, injection, test mode, fault codes, setting response time, resolution, fine adjustment, power saving mode, lock the keys and output modes in a bright easy to read the screen.

Water/ Methanol Injection pump has no pressure cut off switch for eliminating any oscillation/pulsation. Internally bypasses for a smooth constant even flow at the nozzle.

The new integrated solenoid valve and the nozzle assembly offer 100% safety for all injection systems utilizing a rear-mounted reservoir, injection points under vacuum, or installs where the injection nozzle is lower than the water-methanol reservoir. The solenoid fits nozzle between the pump and injection point and locks fluid in place when not in use adding safety and peace of mind to any injection system. The solenoid mounted nozzle works as an injector style. Because of the reaction time is fast.

All metal equipment has the durability to corrosion of methanol and water, which constitute corrosion impact-resistant nickel-plated brass, brass and EPDM grade plastic material.

All of our products are guaranteed for 2 years against the fabricated problem from the date of receipt by you.

**"Water/ Methanol Injection Stage 1.5+ Turbo" connection and settings:**

COLOR	FUNCTION	SECTION mm2	LENGHT
Yellow	ACC +12V	0,75	1 meter
Black	GND 0V	0,75	1 meter
Blue	Pump RED	0,50	4,5 meter
Brown	Pump BLACK	0,50	4,5 meter
Red	Solenoid +	0.34	2,5 meter
Black	Solenoid -	0.34	2,5 meter

Brown	LCD unit +	0,15	1 meter
Blue	LCD unit -	0,15	1 meter
Black	LCD unit Signal	0,15	1 meter

**The box contains:**

1. High-Pressure Diaphragm pump
2. 2 x 3/8th NPT to 1/4" compression type fitting
3. Nozzle
4. Nozzle mounting bung
5. 40-micron stainless steel filter
6. Filter nut
7. LCD unit
8. 2 x 1/8th NPT to 1/4" compression type female fitting
9. Controller with wiring loom
10. Solenoid valve
11. 1/8th NPT to 1/4" compression type hose fitting
12. 1,15 Gallon/ 4,6 Quart/ 4,3 Liter plastic tank
13. Plastic tank cap
14. 1/8th NPT 100-micron in-tank filter
15. Rubber O-ring
16. 20 FT/ 6 meter 1/4" OD. red injection hose
17. 1/4" plastic compression fitting type Tee for vacuum line
18. Fuse holder
19. 7.5 Amp fuse
20. On/ Off button
21. 4\*Fully insulated female cable connector
22. Fully insulated Ground cable connector
23. 5\*zip tie
24. 4\*screw for the controller
25. 2\*screw and 2\*washer for tank
26. 4\*screw and 4\*washer for pump
27. 3d sticker
28. 8,5\*4,5cm sticker
29. 2 x 5\*2,5cm sticker
30. Installation manual

**Required for installation and adjustment:**

Flathead screwdriver, side cutter, wrenches.

**How to install your kit;**

The Water/ Methanol Injection tube should be taken to the engine compartment passing through the sharp edges and pointed parts away from the under the upholstery of the car.

If you did not buy a low-pressure transfer pump: The water/ Methanol Injection pump should install in the luggage compartment below the tank.

If you buy a low-pressure transfer pump: The water/ Methanol Injection pump can be installed in the engine compartment.

The pressure switch should connect to the pressure switch and the vacuum tube should connect to the intake manifold.

The end of the nozzles is 1/8"-27 NPT male thread. The nozzle mounting bung should be weld on the intake pipe at a 90-degree angle and minimum 10 cm before the throttle body for better air to Water/ Methanol liquid mixture.

The on/off button and led light should be visible on the inside of the car and should install reachable by the driver.

If you are using only water, the total nozzle cc is half of the power of your car cc. If you are using 50-50% water and methanol mixture, your car's power is cc-based. For example; only 200 cc/min for a 400 hp car using water, 400 cc/min if a methanol mixture is used.

**Nozzles have a flow rating of your choice:**

%100 water: 0,5cc/HP

%50-50 methanol/ water mixture: 1cc/HP



%100 methanol/ water mixture: 2cc/HP


**If you did not specify the size, we sent you a 247 ml/min. (3.9GPH).**

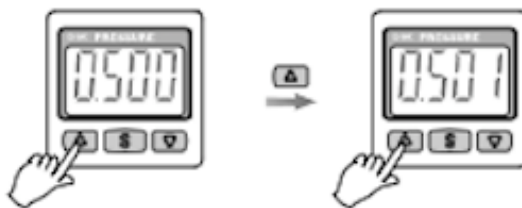
**How to set:**


- When the pump starts, the LCD screen goes red and out1 indicator goes on.
- When you don't want to use it, you can turn off the switch and it will not work.

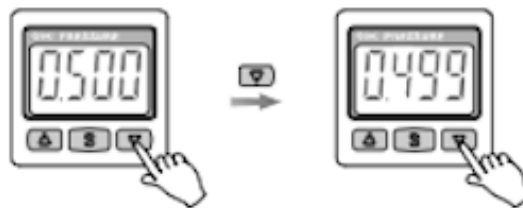
Press the  or  button to change the set value.

The  button is to increase and the  button is to decrease.

- Press the  button once to increase by one digit, and press it continuously to keep increasing the set value.



- Press the  button once to decrease by one digit, and press it continuously to keep decreasing the set value.



## ■[F98] Check of output

Output from the switch can be confirmed.  
It can be selected to provide or not provide the output.

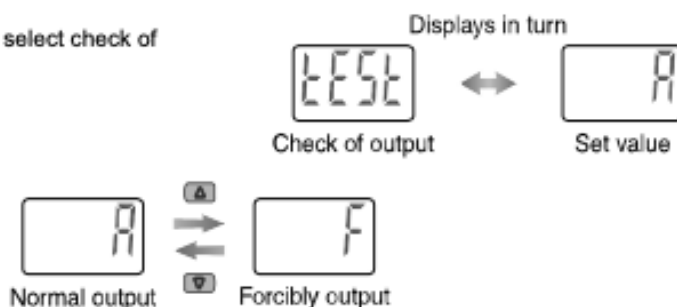
### <Operation>

Press the  or  button in function selection mode to display [F98].


Press the  button. ↓ Move on to check of output.

#### Check of output

Press the  or  button to select check of output.



If [A] (normal output) is selected,



Press the  button to set.

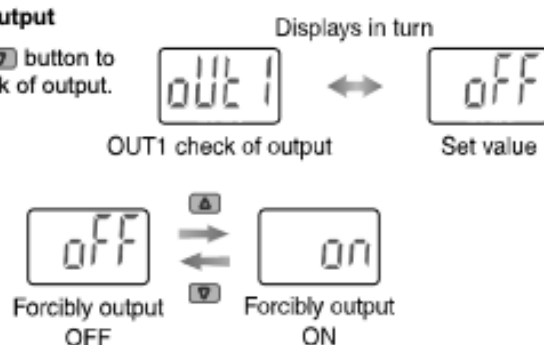
Return to function selection mode.

If [F] (forcibly output) is selected

Press the  button to set.

#### OUT1 check of output

Press the  or  button to select OUT1 check of output.

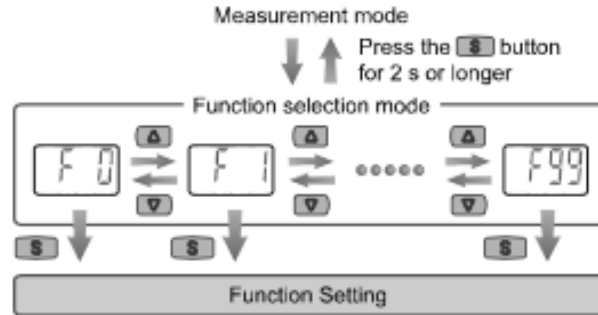


## Function Setting

### ■Function selection mode

In measurement mode, press the **[S]** button for 2 seconds or longer to display [F 0]. Select to display the function to be changed, [F□□].

Press the **[S]** button for 2 seconds or longer in function selection mode to return to measurement mode.



\*: Some functions are not available depending on part number. All functions are displayed with [F□□] followed by the function description. If a function is not available, the function is displayed as [---].

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### Online Stores:

<https://tr.bosphorusinnovations.com/urunler/>

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<http://www.n11.com/magaza/bosphorusinnovations>

<https://www.sahibinden.com/arama?userId=aggtFSTQVu5AEtnX3KPzsAQ>

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