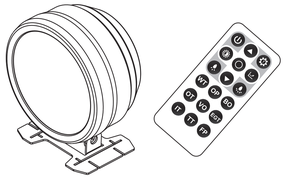
MI Gauge (Methanol/Water Gauge) Methanol Injection Kit Installation Guide

Product Number:
VT-7700050~VT-7700057

Product Name: Water Spray Gauge Kit Installation
Liquid Level Sensor (Optional) Installation
Solenoid Valve (Optional) Installation



Package Content :

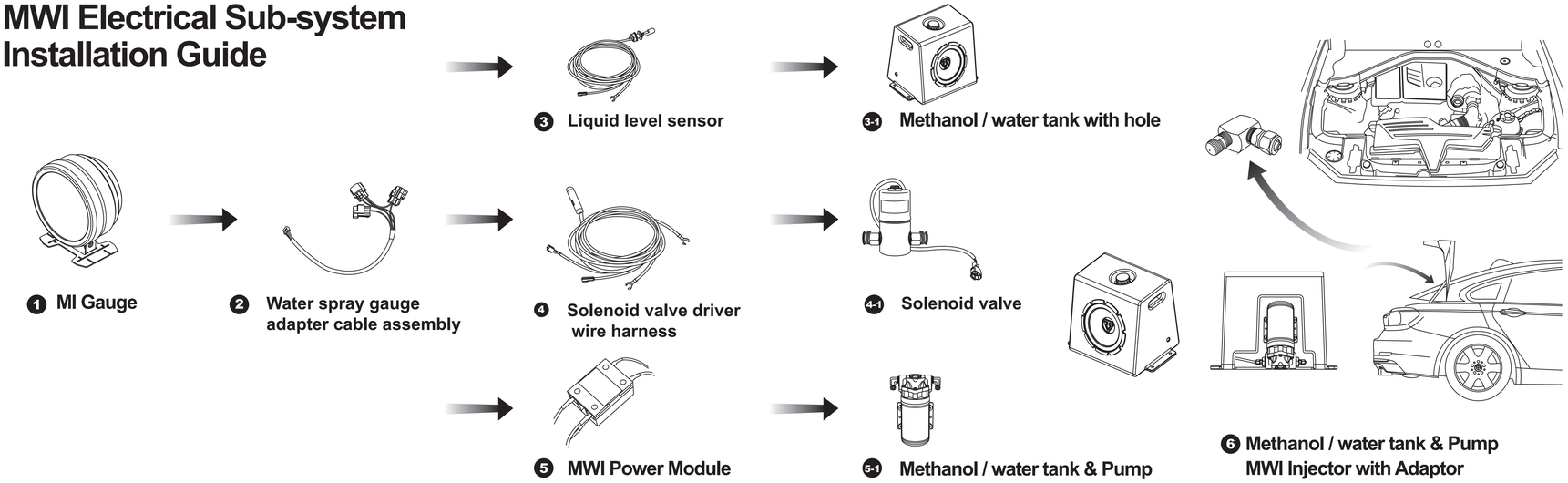
- Turbo Gauge X1
- Remote Control X1
- Wiring Harness X1 (Standard or Straight Type)
- Nozzle with Nozzle Holder X1
  (Comes with 2nd Nozzle by default)
- VT-7400520 - Water spray gauge adapter cable assembly X1
- VT-7400090 - 400P Pump X1
- VT-7400130 - Explosion-Proof Tank 12L X1
- VT-7100010 - Boost and Switch Module X1
- VT-7400420 - PTFE Tubing X1

Optional Contents:

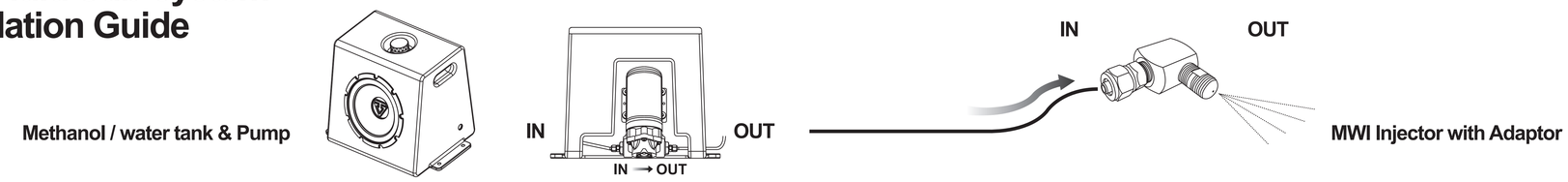
- VT-7400530 - Solenoid Valve Drive Cable X1
- Solenoid Valve X1
- VT-7400510 - Liquid Level Sensor Cable X1
- Water Spray Tank with Holes X1

Web. QR Code

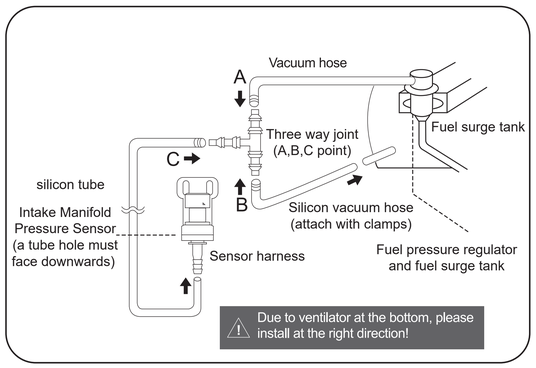
MWI Electrical Sub-system Installation Guide



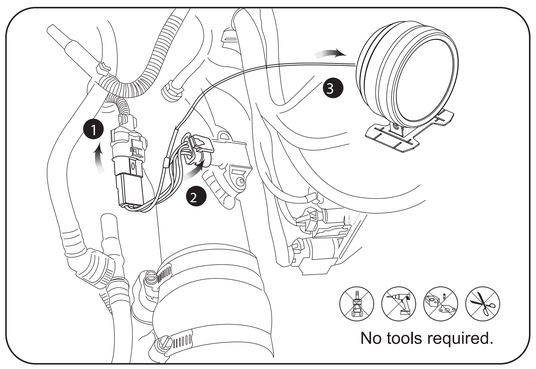
MWI Fluid Sub-system Installation Guide



Sensor Type



Plug & Play



Remote control operation manual

Functional buttons	
Warning	Peak
Up (+)	Down (-)
Brightness	Enter
Initial methanol injection	Full methanol injection

GAUGE MODEL	BO- Booster
WT- Water temperature	VO- Voltage
OT- Oil temperature	IT- Intake air temperature
EGT- Exhaust temperature	TT- Transmission temperature
OP- Oil pressure	FP- Fuel pressure temperature

Steps to connect:

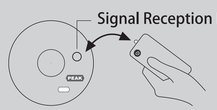
1. Select the gauge. Once selected, the gauge will reset, and the pointer will flash. This indicates that you are entering pairing mode. If there is no activity within 30 seconds, you will need to start the pairing process again.
2. When you've entered pairing mode, the function keys will become active.
3. To exit pairing mode, press the confirm button or any other gauge button.
4. While connected, a long press on the turbo or exhaust temperature gauge button allows you to access sensor value calibration settings. Please note that this feature is only supported for turbo or exhaust temperature gauges.

Water Injection Operation Steps:

1. Press the BO button to enter the water injection settings. Then, proceed to set the initial spray and full spray settings as needed.

Attention

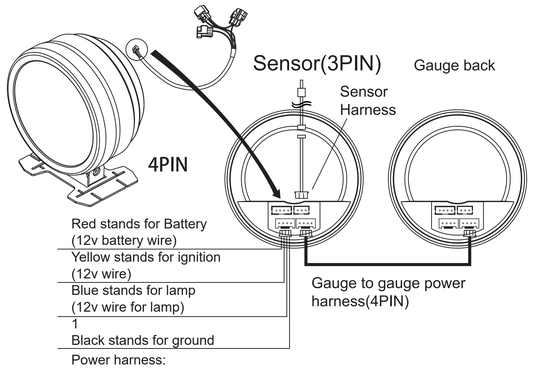
Remote control operation requires alignment at a 75-degree angle for switching.



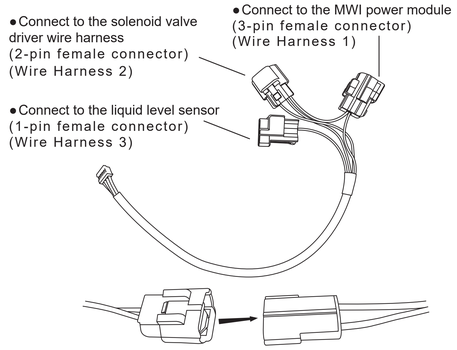
Operation manual	Illustration
POWER: POWER Button: Press to start operation or stop operation. OFF: Press POWER button to turn gauge off under setting mode. ON: Select and press the GAUGE MODEL under OFF mode to enter the setting mode, and the pointer will start flashing. After that, press POWER button to turn gauge on, and if press other GAUGE MODE will turn the gauge off.	Needle sweeps around… …while panel flashes
BRIGHTNESS SETTING: (Warning light and Peak light will flash alternately) Adjust the brightness by selecting UP and DOWN buttons (1-2-3 steps) and then press ENTER button to complete setting.	Alternating flashing
INITIAL METHANOL INJECTION SETTING: (Only methanol injection turbo gauge is available) (PEAK light and Pointer will flash at lower speed) Press UP and DOWN buttons to adjust the pressure of initial injection and then press ENTER button to complete setting. The highest value must be less than the injection value of full power.	Slow blinking

Operation manual	Illustration
FULL METHANOL INJECTION SETTING: (Only methanol injection turbo gauge is available) (PEAK light and Pointer will flash at higher speed) Press UP and DOWN buttons to adjust the pressure of full power injection and then press ENTER button to complete setting. The lowest value must be higher than the value of initial injection.	Quick blinking
PEAK VALUE SETTING: (PEAK light will come on) Press PEAK button and the recorded peak value will be displayed. Press PEAK button again, the gauge will return to the setting mode and the peak value will be kept. If ENTER button is being pressed, the recorded PEAK value will be deleted and the gauge will return to the setting mode.	Press ENTER button to clear peak value record. Permanent light
WARNING VALUE SETTING: (Red WARNING light will come on) Adjust WARNING value by pressing UP and DOWN buttons. After setting, the gauge will buzz when the vehicle reaches above or under the setting value.	Permanent light

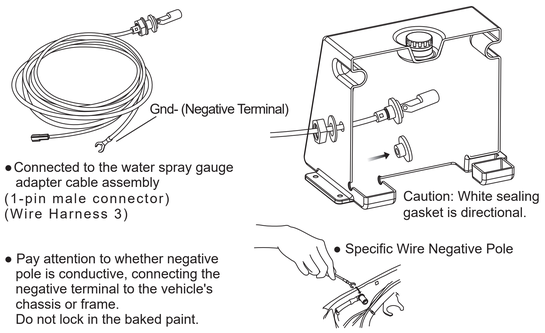
❶ Connection Method of MI Gauge (Methanol / water Gauge) & Adapter Wire



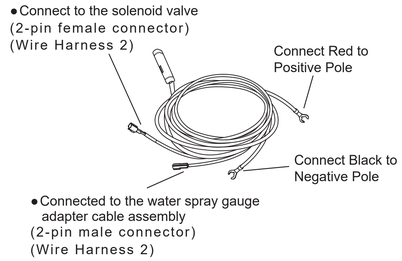
❷ Water spray gauge adapter cable assembly



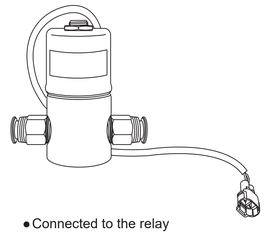
❸ Liquid level sensor



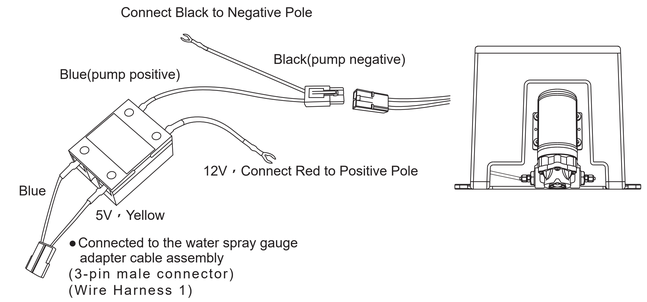
❹ Solenoid valve driver wire harness



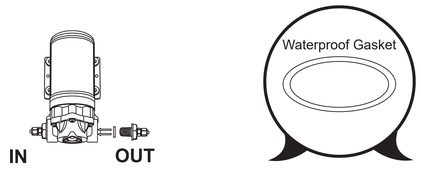
❺ Solenoid valve



❻ Connection Method of METH Power Wire – DUTY-1 & Pump

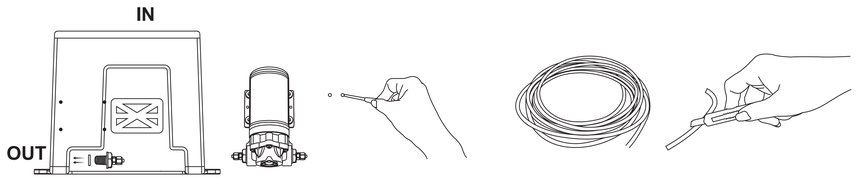


❼ Pump



- Please pay attention to IN / OUT
- Waterproof gaskets need to be placed in the inlet/outlet holes of pump.

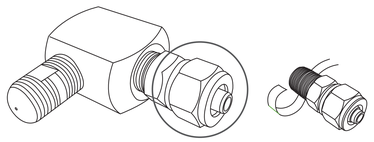
❽ Methanol / water tank



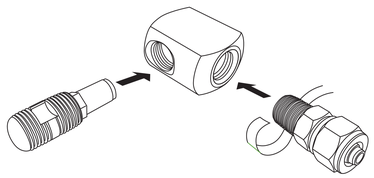
- Please pay attention to OUT. Waterproof gasket need to be placed in the outlet hole of methanol / water tank. Use screws to secure the pump onto the methanol/water tank.

- Please pay attention: Do not fold or press the pipe when installing, otherwise it will damage the pipe structure. Cut the pipe with a knife, scissors will deform the pipe.

❾ MWI Injector with Adaptor

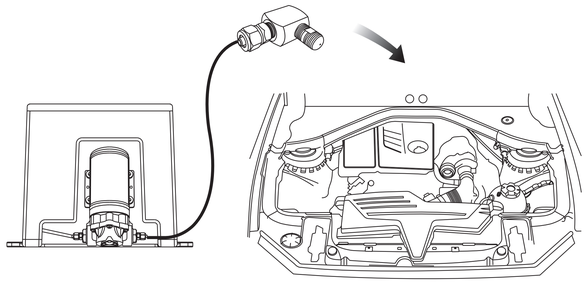


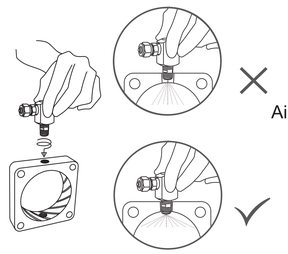
- Please pay attention do not tighten the quick coupling too tightly.



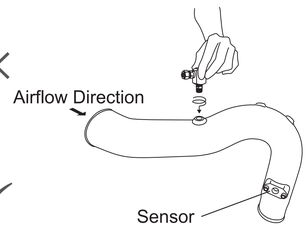
- Please pay attention when wrapping the anti-leakage tape, it needs to be in the opposite direction to the screw thread.

❿ Connection Method of Methanol / water Tank & Pump & MWI Injector





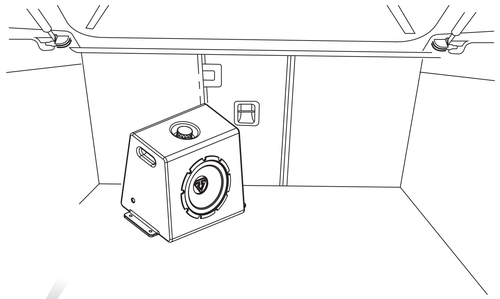
- Please note that Spacer washers are for specific vehicles, please choose the correct model.



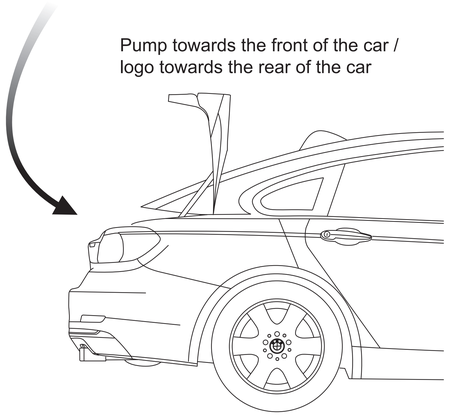
- Please note that turbo pipes with methanol hole are for specific vehicles, please choose correct model. When drilling the hole, please note that it must be in front of the sensor.

⓫ Place in the rear trunk

- Methanol storage hole at the top of the tank



Pump towards the front of the car / logo towards the rear of the car



⚠ To prevent damage to the vehicle, please use only unleaded gasoline with a Research Octane Number (RON) of 97 or higher, or premium diesel fuel.

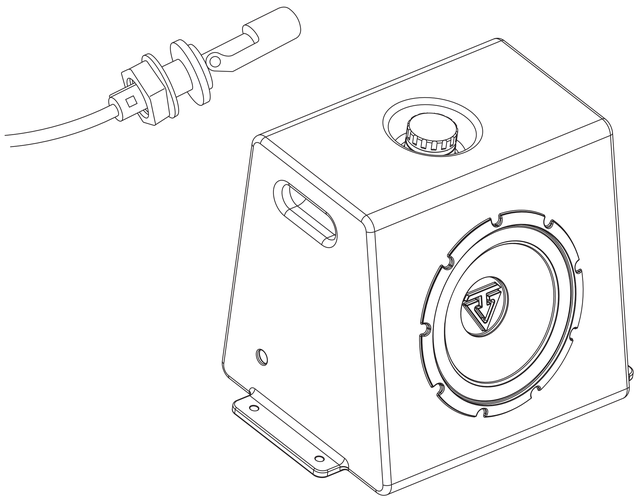
⚠ After installation, it is necessary to shorten the maintenance interval. It is recommended to service the vehicle every 6 months or 5,000 km To avoid damage to the engine and components, it is advisable to replace the spark plugs every 10,000 km.

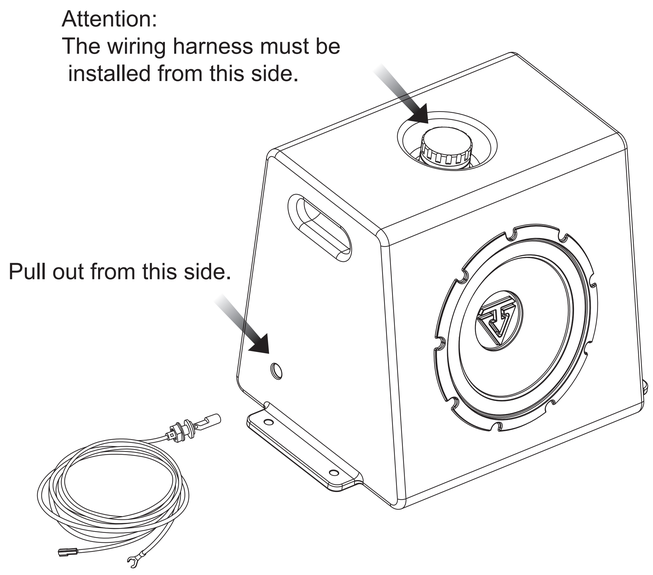
⚠ Please do not interfere with safety devices such as seatbelts, airbag systems, or vehicle equipment (e.g., engine control systems, wheels, and braking systems) during product installation. Interfering with these devices may lead to accidents or fires.

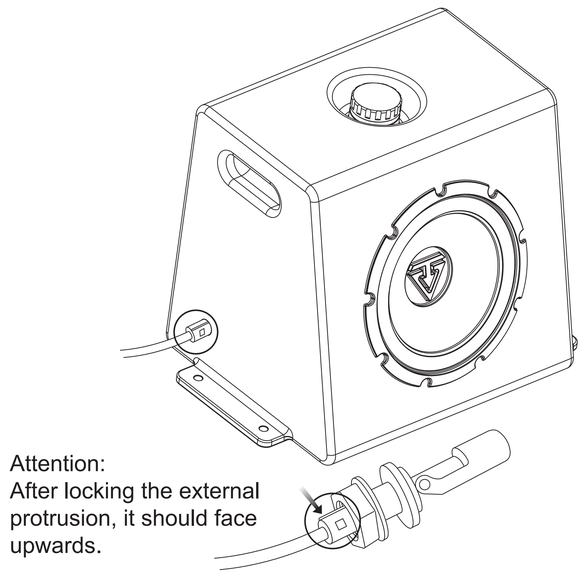
⚠ In any case, VAITRIX shall not be responsible for any damage or loss to factory components resulting from the installation of the product.

⚠ In no event shall VAITRIX be liable for any damages, even if VAITRIX has been advised of the possibility of such damages, arising from the use (or inability to use) the product.

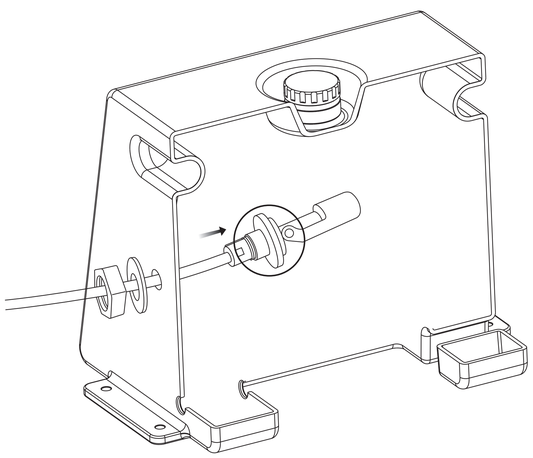
Key Point of Install Liquid level sensor (optional)

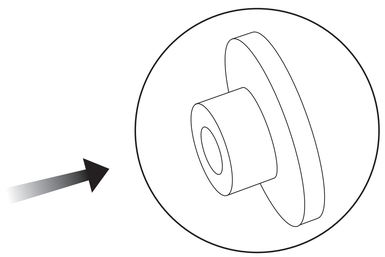






External Diagram

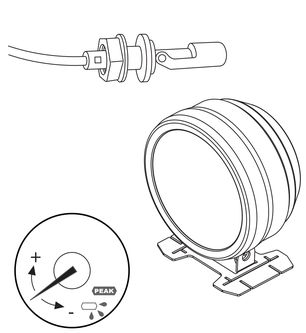




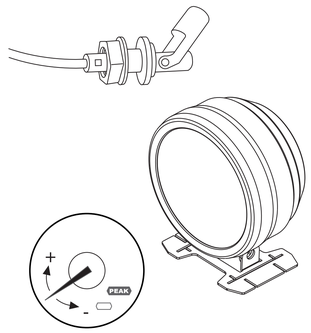
Caution: White sealing gasket is directional.

Internal Diagram

Water tank water level and gauge display

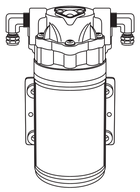


When there is no water,
the sensor will sink, and
the light will flash rapidly.

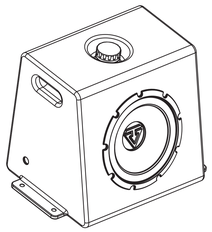


When there is water,
the sensor will float, and
the light will not flash.

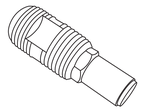
【Optional Section】



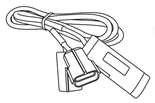
Methanol / water tank & Pump



Methanol / water tank with hole

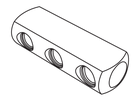


NO.1 100 cc/min
NO.2 300 cc/min
NO.3 420 cc/min
NO.4 600 cc/min
NO.5 700 cc/min
NO.6 900 cc/min



Bluetooth module
for mobile phones.

The VAITRIX AIR FORCE ONE Bluetooth module
For Android phone users only
(Switch easily with one device in hand)
★Please follow the switching procedure within
the optimal network signal range.



Pipeline one to six connecto

Temperature sensor

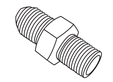
Turbocharger sensor

T-shaped metal pipe adapter

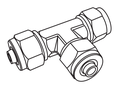
Nozzle base

Oil pressure sensor

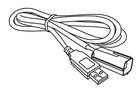
Exhaust temperature sensor



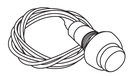
Metal pipe adapter



T-type three-way connector



Adjustment data cable



Water spray pre-injection switch /
External computer switch

L-shaped metal pipe adapter

Solenoid valve

Teflon tube

Liquid level sensor wiring harness

A 10-foot/300 cm metal braided PTFE hose

【Q&A Section】

Q: Why doesn't my car remember the settings after I install it, and it turns off and on again?

A: Please ensure that the wires are installed in the following relative positions:

Yellow wire = ACC (Switched power)
Red wire = Constant power
Blue wire = Usually not connected
Black wire = Ground (Connect to unpainted metal)
If both the red and yellow wires are connected to switched power, it will result in the device not remembering settings.
If both are connected to constant power, it will cause the device to remain powered and not turn off as expected.

Q: How can I confirm if the water injection system is working after installation?

A: You can confirm the operation of the water injection system through the following methods:

Check if the light on top of the water injection module is illuminated. If it's lit, it indicates normal operation.
Verify if the solenoid valve is vibrating or if you hear a "click" sound from it.
You can install an intake temperature gauge. If you observe a decrease in temperature after activation, it indicates normal operation. (Note: Ensure correct placement of the intake temperature gauge — behind the nozzle, intake temperature gauge, and in front of the throttle body.)

Q: Can the 4-hole positions behind the gauge be interchangeable?

A: The top positions with clips cannot be interchanged with the bottom positions without clips. However, the two bottom positions without clips can be interchanged.

Q: Is there a directionality to the electromagnetic valve IN and OUT?

A: Please make sure that IN is connected to the bucket end, and OUT is connected to the nozzle end. If connected incorrectly, it can flood the engine (cause engine damage)!

Q: Should the pipelines run inside or outside the car?

A: It is recommended to run the Teflon hoses outside the car, following the brake fluid lines for safety. Other hoses can run inside the car.

Q: Why is there still a water leak after installing the liquid level sensor? What went wrong?

A: When installing the liquid level sensor, it's crucial to pay attention to its orientation. Install it from the inside to the outside. Make sure the internal sealing gasket is correctly oriented, and the external protrusion should be facing upwards. Please refer to the "Installation Key Points for Liquid Level Sensor" for more details.

Q: Are there any preparations needed before installing the water injection system in the car?

A: In terms of hardware, you'll need to replace the turbo pipe with an aluminum pipe that has a water injection port.

Q: How should I connect the boost gauge and the external computer simultaneously?

A: You should connect the boost gauge first and then connect the external computer.

Q: Why is it that after installation, the remote control doesn't respond when I press it?

A: Please make sure to aim the remote control at a 75-degree angle to the upper right
corner of the instrument panel (receiver) to initiate the switch.

Q: Are there any recommended products for selection?

A: The electromagnetic valve's main function is to prevent methanol from flowing back and causing leaks.