

# Instruction Manual

## Petrol Float Emulator EX524



## GENERAL WARNINGS



We advise you to fix the box in a vertical position, away from possible water infiltrations and excessive heat sources (for example: exhaust manifolds), so as to avoid to irreparably damage.



To avoid bad workings of the Emulator we advise you to:  
Pass away from the high tension wire;



Make good connections and do not use "**steal current**".  
**Please, pay attention that the best connection you can do is a duly insulated welding.**



**Please advise the client** that in event of a GAS electric system breakdown, the Emulator automatically resets the original connection.



Do not absolutely open the box, especially when the engine is running or the board panel is inserted. **EX declines every responsibilities for damages caused to things or person which derive from the tampering of its own device provoked by unauthorized persons.**

## TECHNICAL SPECIFICATIONS


|                               |               |       |
|-------------------------------|---------------|-------|
| Feeding Tension               | 10 ÷ 14 Vdc   |       |
| Overall dimensions of the box | height        | 60 mm |
|                               | depth         | 29 mm |
|                               | width         | 41 mm |
|                               | Ø fixing hole | 5 mm  |

## OPERATING PRINCIPLE

On new generation vehicles, which are normally equipped with trip computer, the PETROL indicator is not up-dated as in the previous systems that just considered the indication given by the float inside the tank, but it is now the actual computer that calculates the consumption and commands the indicator on the dashboard, consequently reducing the fuel level based on the kilometers driven and on the driving conditions.

When the vehicle runs on GAS, even if the amount of petrol in the tank does not drop, the trip computer still reduces the PETROL level and it is impossible to read the correct level in the tank. The tank level indicator is up-dated and corrected only after topping-up with fuel. By installing the EX524 emulator, when the vehicle runs on GAS, the trip computer reduces the petrol level in the tank, but the emulator restores the correct PETROL level each time the vehicle is started.

### Vehicles on which the emulator can be installed

- CITROËN C3 - Diagram 1
  - CITROËN Xsara Picasso as of 2002 - diagram 1
  - PEUGEOT 206 as of 2002 - diagram 1
  - PEUGEOT 307 - diagram 1
  - PEUGEOT 406 as of 2002 - diagram 1
  - RENAULT Espace as of 2003 - diagram 2
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## CONNECTION METHOD

We have been unable to test the emulator on some vehicles and we are therefore unable to provide the assembly diagrams; however these vehicles can still fit the emulator type EX524.

On these vehicles, you need to identify the level float wire that normally has a connector with 4 wires of different cross section:

- 2 of larger diameter that represent the power supply and the earth of the petrol pump respectively;
- 2 of smaller diameter that represent the signal and the earth of the level float respectively.

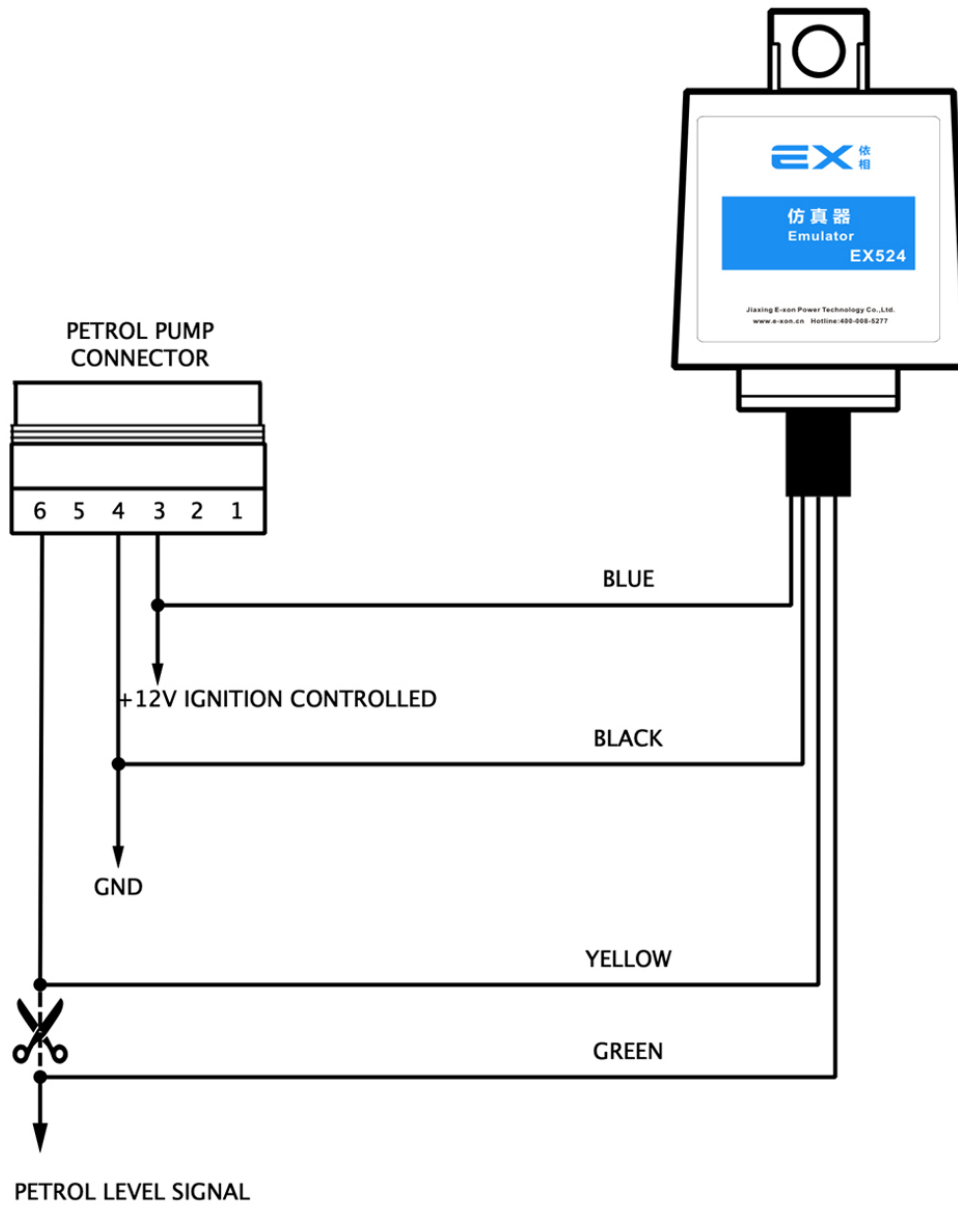
To identify the signal wire among the 2 wires of smaller diameter, simply start the vehicle engine and measure the voltage using a multimeter. The wire with voltage that varies based on the amount of petrol in the tank is to be disconnected.

If more than one wire of smaller diameter is electrically powered, you are recommended to measure the voltage, then top-up with fuel and check on which wire the voltage has varied.

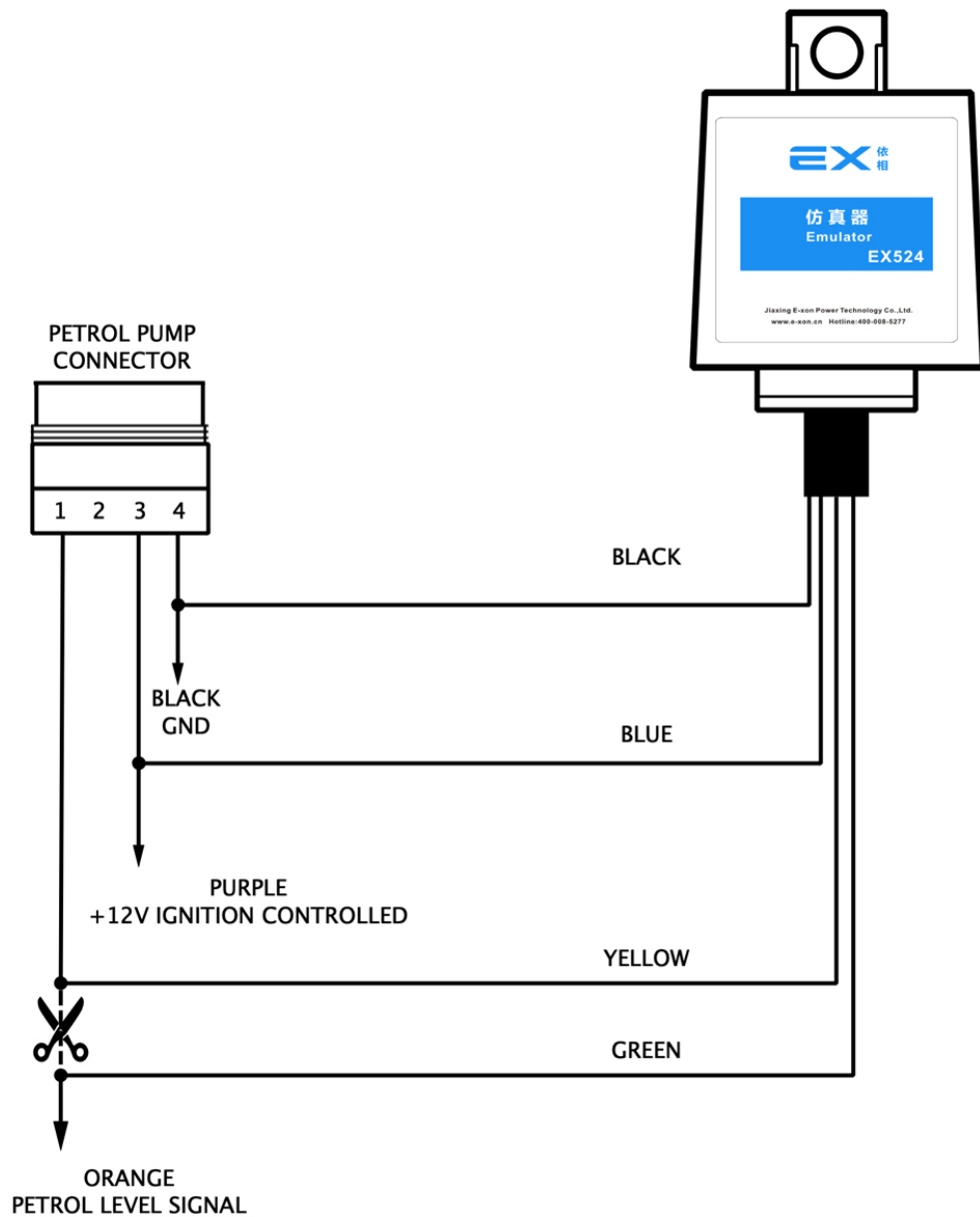
### Vehicles applicable to installation diagram 3

- CITROËN: C2- C3 - Xsara Picasso
- PEUGEOT: 206 - 307
- RENAULT: All models, barring Twingo
- MERCEDES: ML year of registration 2004
- LEXUS: IS200 - RX300
- OPEL: Astra year of registration 2002-2003 - Vectra year of registration 2002-2003

## INSTALLATION DIAGRAM 1



## INSTALLATION DIAGRAM 2



INSTALLATION DIAGRAM 3

