

OBM-2T for 1KZ-TE Engine only for Toyota KZN-165R (2000-2005)

Quick Install Guide

To install Manual Mapper OBM-2T you need to locate the Turbo Pressure sensor



Photo of Turbo Pressure Sensor.

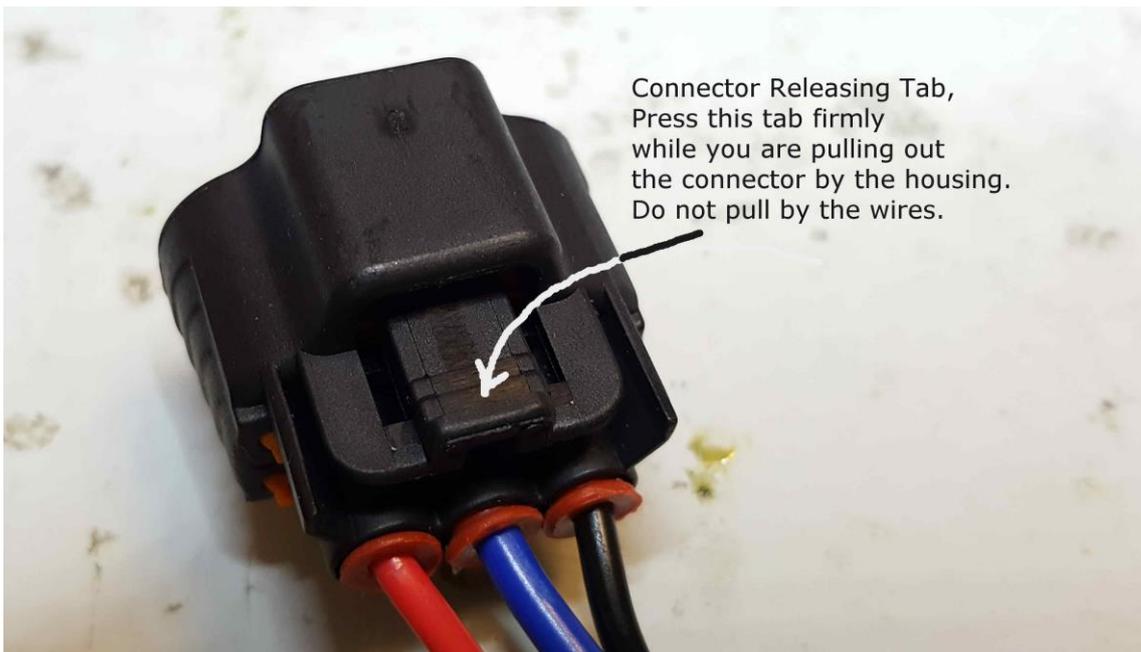
Disconnecting the connector

Please do not pull the connector by the wires.

Hold the connector and Press the plastic releasing tab firmly with your thumb while pulling the connector by the plastic housing.

All the automotive connectors have waterproofing rubber seals and this seal will make your connecting and disconnecting very hard sometimes.

Be careful not to damage the connectors.



Connector Releasing Tab,
Press this tab firmly
while you are pulling out
the connector by the housing.
Do not pull by the wires.



Insert Manual Mapper OBM-2T in between the turbo pressure sensor and car computer.

You will need to supply the +12V to Manual Mapper. You can connect to aux power or directly to the battery. Manual Mapper only consumes 7ma in total.

OBM-2TCC in cabin controller shown here. The OBM-2T don't have the remote control box, but the connection is same to turbo pressure sensor.

Please watch out for the stiff connector due to rubber seals, especially to the car computer side where the original female connector is hanging in the air.

Hold onto two connectors and push it very hard each other until you hear or feel the "click".

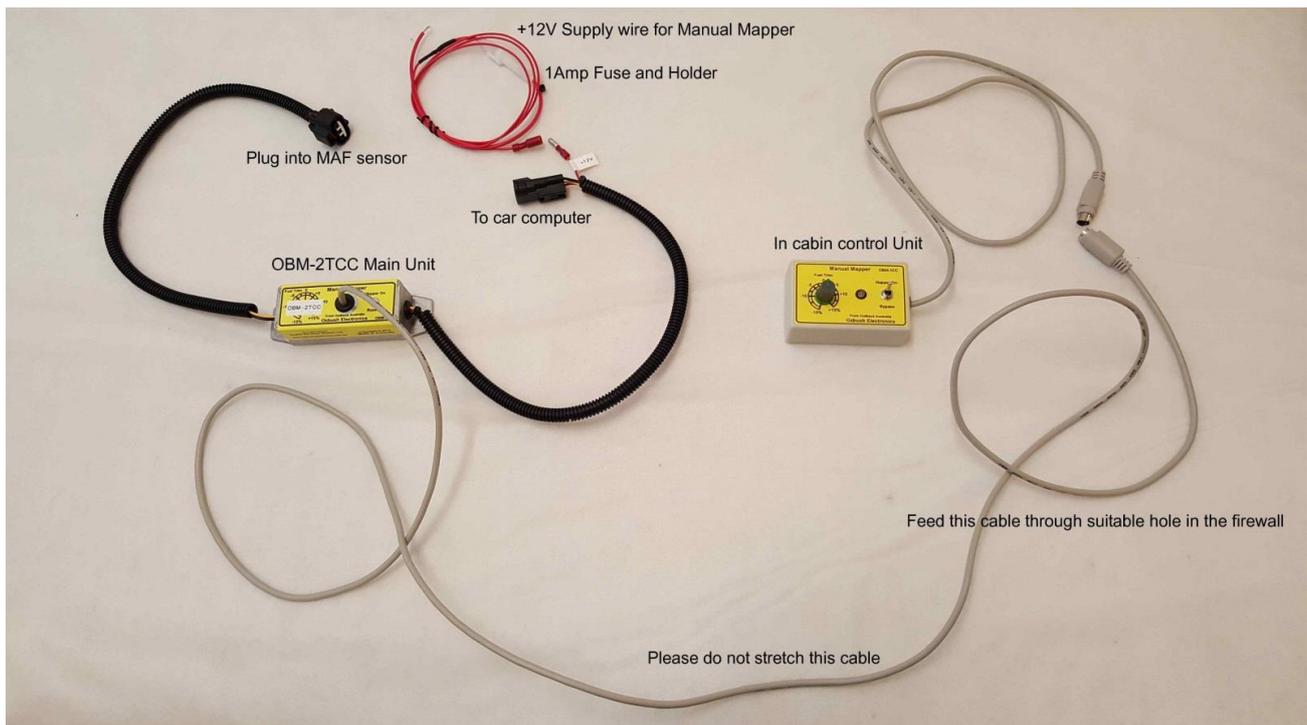


Photo of finished installation.



After the installation, check the green light is on when the Mapper is turned on.

Try to set dial zero first time, then gradually try out the whole dial range.

You can feel the minus side easily, but plus side is not easily felt due to insignificant power rise (10-15kw power increase is hard to feel).

Rarely, some engines will reject full +15% and put you into limp mode so you need to know the limit before you commit any heavy towing.

Emergency Fix:

The Manual Mapper is designed and manufactured according to military specification up to 90%. However, any electronics equipment can fail, no matter how well designed, we even had a customer calling near desert asking for help because he accidentally smashed the switch in the Mapper unit with his spanner while he was fixing additional fuel filter. We have been helping stranded people unrelated our product too.

So here are some suggestions for you if you have a problem.

1... If you suspect Mapper has a problem then all you have to do is simply throw the power switch to "BYPASS". In this position, the Mapper is out of the circuit all together and the problem should go away if there was a problem with Mapper.

2... If you still not sure then you can disconnect the Mapper physically and restored to the original connection, which only takes 1 minute.

3... We also found out many people had MAP sensor failures regardless of our Manual Mapper. (MAP sensor = Turbo pressure sensor). Mostly aging problems.

So if you have a Manual Mapper problem, then all you have to do is to set the switch to bypass or physically disconnect it.

You can still drive in limp mode even if you have a faulty (P0101 error code) to reach the nearest town to get help. However, I strongly recommend that you do not reconnect the Mapper with new MAP sensor until you checked out the Mapper hasn't been damaged too. (please call us if you are not sure).

It was rare, but we found two times the faulty MAP sensor damaged the Mapper and then the damaged Mapper will now burn out new MAP sensor when you replaced. The micro fuse has been inserted in the Mapper to protect new MAP sensor since Oct 2017.

Emergency Field Master Reset for the car computer:

To clear the check engine light and the error codes without Scantool.

The scantool will clear any codes, but in case if you don't own the scantools then this is a way to clear the error code and works most of the time.

1... Disconnect the Negative battery terminal to disconnect the power to the car computer.

2... Push on the brake pedal for two minutes to discharge any remaining charged power in the car wirings and devices.

3... Reconnect the battery terminal.

This action should clear, the most of the codes but if you can't then you are most likely to have a serious problem which turns on the check engine light straight away.

Disclaimer notice:

Please take ample awareness about the Manual Mapper usage, we take as much research as possible to prevent any mishaps but **the ultimate responsibility is on you**. Please look after yourself and your car at best.

Do not be distracted by your devices in the cabin. Look out on the road!

We may not refund the unit in case of you have changed your mind because once you have installed the Mapper unit, then it is no longer re-saleable due to mechanical markings.

The unit is resin sealed and can not be re-manufactured.

Please always in communication with us for any difficulties or questions, we are not responsible for your action and consequent damages or costs.

Please don't hesitate to send any inquiries to ozbush@hotmail.com. We will try best to answer all we can.

Emergency contact mobile phone number 0425 221 412 (Int: 61-425-221412)

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