USER'S GUIDE

Thank you for purchasing this PIVOT product. Please read this manual carefully before installation and use. Please keep this manual for future reference.



1. The display will not be proper if the ECU being used is not the standard one or if a sub-computer is being used, even in compatible car models.

2. Cannot be used in combination with products that use another company's diagnostic monitoring connectors.
 3. For details about using in combination with other PIVOT products please see our Web Site at

http://pivotjp.com/obd-e/.



FEATURES

With our 52X-VW, just by connecting to the diagnostic monitoring connector, the VW specialized CAN communication can be analyzed and three types of data can be simultaneously displayed. (Not for use with incompatible models)

	Simultaneous display of three types of data: Boost, Water Temperature and Oil Temperature	No Piping or Wiring Necessary	It is possible to connect directly using the connector to the diagnostic monitoring connector meaning there is no need for troublesome wiring
LED Illuminatio	Illumination by high contrast highly luminous white LED	Stepping Motor Drive	Stepping motor drive brings you a high-performance display with no hunching or overshooting

Displays and Uses

Boost (Absolute pressure display %)

- ▶ **Display** -100~154KPa
- ► Use ●Check Boost ●For Eco-driving [Vacuum] [Boost] [Vacuum]



 This display of absolute pressure includes barometric pressure and may differ from a gauge showing relative pressure (mechanical type).
 With the key in the ON position, due to altitude the boost needle may show a minus reading.

Water Temp

- ▶ **Display** 20°C~120°C
- ▶ Use ●Prevention of overheating
 ●Check Heating etc.



Oil Temp



Tim

Opening Demo

When the engine is started an opening demo (the needle will go around once) for all three types will be shown and then the unit will go into its normal display.

Ex:120°C

(52X-VW As of November, 2014 No.4)

52X Series

plug in gauge ø52 EURO SPEC

PART NAMES



WIRING METHOD and INSTALLATION



1

Installing the Three Cables between the Gauges and the Server (In case of VW GOLF V)

Preparation

- Remove the under cover (torque screw T20 x 2) from beneath the steering wheel.
- 2 Pull up on the emergency brake.
- ③ Turn the key to ON (do not start engine), shift into "D" and then turn the key back to OFF. (This will place it into ACC and the key cannot be removed.)



Remove the cover below the air-conditioner dials and the ashtray

- ① Remove the cover of A by pulling down as shown in figure 1.
- ② As shown in figure 1, lift up the cover of B turning the shift boot inside out and wrapping it up over the shift knob. (Allowing installation without removing the shift knob)
- ③ Remove the two screws from the front of the ashtray of C, as shown in figure 1. (torque screw T20 x 2)
- ④ After having lifted up the front of C as shown in figure 1, remove all connectors and completely take off C.



Figure 1 : Figure showing Removal of Covers

2 Laying the Cables

- ① Lay the three cables to connect the gauge and the server as shown in Figure 2.
 - · Large Connectors \Rightarrow Gauge Side
 - · Small Connectors \Rightarrow Sever Side
- 2 Pull the end of the cables for the server side through the inside of the console and bring them to the under cover area. (See figure 3)
- ③ Insert the three cables into the server. (They can be connected to any position)
- ④ Remove the small storage compartment from the right side of the steering wheel.
- (5) Fasten the server to the top back of a storage space using the double-sided tape.
- 6 Return the ashtray to its original position. (Pull the cables over toward the right side as shown in figure 2)







Opening Holes for the Cables

- ① Step on the brake and put the shift lever into "P"
- 2 Turn the key ON, then back to OFF and remove the key.
- ③ Return the cover of B in figure1 to its original position.
- (4) Make a cut in the cover of A in order to pull through the gauge cable. (see the figure below)



5 Return the cover of A cut in step 4 to its original position.

Connecting the Fuse and OBD Connector

The following is just one example of wiring to the fuse box of a GOLF V GTI BWA (steering wheel on right). If your model is different and you are unsure of how to connect please contact your dealer.

1 Connecting to a Power Source

Black

OBD connector



Black

Black

□ Use cut connector

female cover.

3

Installing the Three Gauges and the Meter Hood



4

Key OFF (Engine stop)

The needle stops at the key OFF position.



Real display

Each gauge will display

actual measurements.

Trouble	Possible Causes	Possible Solutions	
Don't operate when the engine is started (all three).	Poor connection of the Gauge Cable, OBD connector or fuse.	Please reconfirm whether wiring and connections are correct or not.	
	If wiring has been direct to power the red wire may have been improperly wired or there is a poor connection.	Please reconfirm whether wiring and connections are correct or not.	
	The unit has been installed into an incompatible car model.	Please check the list of compatible car models.	
	The power is connected to the normal power source (12V even with key OFF).	Change the power to IGN (12V with key in ON position).	
Don't operate when the engine is started (one or two).	There is a poor cable connection between the gauge(s) and the server.	Check the each cable connections or conditions.	
The displayed values are different from the standard or other gauges.	Due to the ECU information received, the displayed values on this product may differ from those of the standard or other gauges.		
The boost pressure display is different from the standard or other gauges.	This product's boost gauge reads absolute pressure and may differ from a gauge using relative pressure.		
With the key in the ON position the boost needles points to a minus reading.	The sensor for absolute pressure is subtracting for barometric pressure and hence the display shows minus. (EX: Elevation of 700 meters = minus 8Kpa)		
With the key in the ON position, the oil temperature display shows a minus reading.	This is a normal data operation for your car and is not a problem.		

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