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GVW-SCANGAUGE-KIT

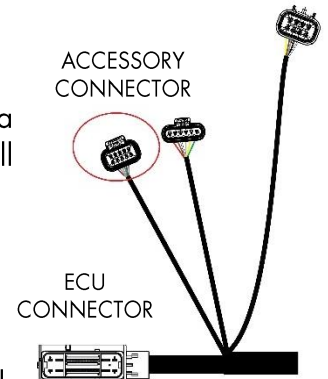
ScanGauge Kit for GoWesty EFI

DISCLAIMER: This kit has been designed for easy installation. However, it does involve some wiring. The installation of this kit is not within everyone's ability. Read through these instructions carefully and decide if installing it is for you. If not, please take your vehicle to an automotive electrician. Wiring errors can be troublesome and hazardous.

Refer to the wiring diagram at the end of the instructions. The wiring diagram demonstrates the bulk of this installation.

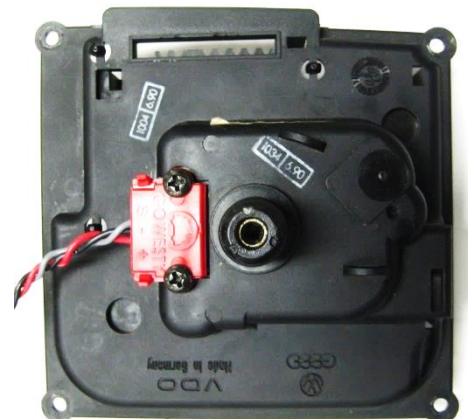
INSTALLING THE ACCESSORY CONNECTOR WIRES

1. Locate the 10-pin Accessory Connector near the GoWesty EFI ECU. There is a mating connector already installed in this connector. The mating connector will need to be removed from the Accessory Connector.
2. Remove the purple wire lock from the back of the plug by prying the tabs on each side.
3. You will need to remove 3 of the green wire seals. Refer to the diagrams for which seals to remove.
4. Locate the Cat5 coupler with the Purple, Grey and Brown wires with terminals attached. Place the wire terminals into the three wire cavities shown to the right. You should feel the terminal lock into place.
5. Replace the purple wire lock removed earlier.



INSTALLING THE VEHICLE SPEED SENSOR ([VSS-VANAGON](#))

1. Remove the Instrument Cluster from the dash.
2. Install the VSS into the back of the speedometer as shown in the image to the right. Your speedometer may have a black plastic tab covering the port for the speed sensor. Break this plastic tab off and use the two screws packaged with the speed sensor to mount the speed sensor in this space.
NOTE: If your vehicle has cruise control, remove the original VSS and refer to the back of these instructions to wire the NEW VSS to your cruise control.





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MOUNTING THE SCANGAUGE

1. The ScanGauge can be mounted anywhere on the dash or steering column cover. Use the supplied Velcro to mount the ScanGauge in your desired location.

NOTE: *In-house, GoWesty mounts the ScanGauge inside the speedometer housing as shown in the image to the right. In order to install the ScanGauge in this location, a hole will need to be drilled into the bottom of the cluster using a step drill. DO NOT use a normal drill bit. This installation is relatively advanced and may cause damage to the cluster if done incorrectly. Please install in this location at your own risk.*



2. Run and connect the Cat5 Ethernet cables as indicated in the wiring diagram at the end of these instructions. It is suggested to run the long Cat5 cable extension through the large EFI Grommet, under the vehicle, and through one of the headlight grommets to reach the dash. The Cat5 couplers have indications on which Cat5 port should be connected to the long Cat5 extension wire. Be sure to put the proper Cat5 wire in the proper port.

The ScanGauge has two Cat5 ports- one on the back and one on the side. Either port will work. Use the port that is more convenient to access in your desired mounting location.

WIRING FOR CRUISE CONTROL

NOTE: *If your van has factory or aftermarket cruise control, you will need to follow the steps below to keep the cruise control functioning properly.*

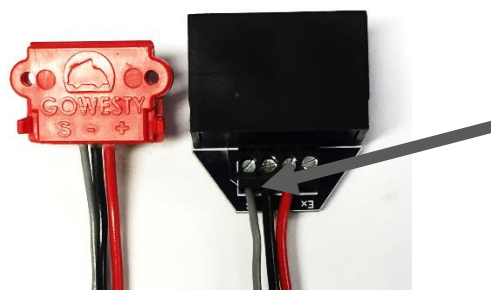
The signal wire to your cruise control will have to be combined with the NEW VSS's Grey wire by wiring the signal wire into the "S" screw terminal on the Cat5 Coupler near the VSS.

If you have Factory Vanagon Cruise Control:

The factory cruise control used a two-wire VSS. The white/blue wire (signal) on the factory harness for the original VSS will need to be cut and connected into the "S" terminal with the Grey wire on the Cat5 coupler near the NEW VSS. Use a small flat blade screwdriver to open the screw terminal, then connect the wire white/blue signal wire in the terminal. The other wire originally connected to the factory VSS will need to be secured under the dash as it will no longer be used.

If you have a GoWesty Aftermarket Cruise Control:

If you have a GoWesty Aftermarket VSS already installed, you will need to cut the grey wire from the OLD VSS and connect it into the "S" terminal with the grey wire on the CAT5 Coupler that is connected to the NEW VSS that comes with this kit. The red and black wires from the OLD VSS should be cut and secured under the dash as they will no longer be used. The OLD VSS can be discarded.



JOIN VSS CRUISE CONTROL SIGNAL WIRE WITH GREY WIRE SHOWN.

NOTE: LEAVE THE RED AND BLACK WIRES FROM THE CRUISE CONTROL UNIT ALONE. DO NOT CONNECT ANY WIRES TO THE RED AND BLACK WIRES.



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USING YOUR SCANGAUGE

Included in this kit are two excellent instruction booklets for your ScanGauge. Note that fuel mileage calculations will need to be calibrated using the method shown in the quick-start guide.

The GoWesty ScanGauge comes with proprietary gauges that come pre-programmed into each ScanGauge. Below is a description of each of the extra gauges that do not normally come with the ScanGauge and therefore are not listed in the ScanGauge instruction booklets.

Gauge	Description	Units
IAC	Idle Air Control Valve Demanded Position	%
MAF	Mass Air Flow	Grams/Second
OXS	Oxygen Sensor (% of Maximum Voltage)	%
AC	Air Condition Status	ON/OFF
PS	Power Steering Switch Status	ON/OFF
KNV	Knock Controller Voltage	V
KNR	Knock Retard	Degrees
OT*	Oil Temperature	°F
TT*	Transmission Temperature	°F
*Kit with required sensors and wiring sold separately		



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WIRING DIAGRAM

