

Instruction manual for the ignition signal trigger unit

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Application

The igniting signal trigger unit (ISTU) takes the engine speed signals directly from the high tension (ignition) cable. It can be used for CDI, magneto or transistorized ignitions if no possibility exists to transmit the ignition signals directly from the ignition coil.

Safety instructions

Make sure that your vehicle is equipped with an interference suppressing ignition system, that means a interference suppressing spark plugs or plug caps. Use of the ISTU with a non-suppressed ignition system can lead to malfunction or damage to the device! It must no mechanical stresses and strains act on the device (pull, push or shock forces).

The front side of the sensor has a contact stripe and two drillings on its edge. Directly above the contact stripe the high tension cable (ignition cable) has to be fastened tightly. The high tension cable has to be located between the drillings and the edge of the circuit board (see below). The contact stripe is the only element that has contact with the insulation of the high tension cable. **Contacts to insulation stripped high-tension wires must be avoided!** Ignition impulses are triggered without direct electrical contact.

Connection

Locate switched positive pole of your power supply (+12 V) on the wiring harness. Remove the vehicle battery or interrupt the connection to the onboard power supply. Connect the red cable to the switched positive terminal (+12 V) and the black cable to a negative terminal. The brown cable has to be connected to the engine speed input cable of the instrument. Make sure the power supply cable to the red cable is fused with a 5A safety fuse. If not, damage at the connection cables can cause a cable fire. Make sure you are capable to connect the device properly. If you are not sure, let the professional shop do the job!

Assembly

The device should be attached directly to the high tension cable between ignition coil and spark plug. It is recommended to choose a location nearby the ignition coil. Avoid any contact with bare metal and put the ISTU beyond the reach of hot engine parts and in a place protected from splashing water. Insert the enclosed cable ties into the two drillings of the circuit board. Then position the high tension cable on the contact stripe and fit the cable ties together. Finally tighten the cable ties and cut them for best fit. Now check the function using your rev-counter.

