

Instruction manual m-CAN

Exclusion of liability

DEVICE HOUSINGS AND ALL OTHER DELIVERED PARTS MUST NOT BE OPENED OR DISMANTLED. IN CASE OF NON-COMPLIANCE ALL GUARANTEE CLAIMS BECOME INVALID. THE M-CAN CAN ONLY USED WITH MOTOGADGET INSTRUMENTS. THE USE WITH OTHER INSTRUMENTS WILL DAMAGE THE M-CAN; ALL GUARANTEE CLAIMS BECOME INVALID. THEREFORE A CHANGE OF A DEFECT M-CAN IS ONLY POSSIBLE IF THE USED MOTOGADGET INSTRUMENT WILL BE SEND TOGETHER WITH THE DEFECT M-CAN. MOTOGADGET ACCEPTS NO LIABILITY FOR DIRECT OR INDIRECT DAMAGE OR SUBSEQUENT DAMAGE OF ANY KIND RESULTING FROM THE USE, INSTALLATION OR CONNECTION OF THE M-CAN OR OTHER DELIVERED EQUIPMENT. THIS EXCLUSION OF LIABILITY PARTICULARLY INCLUDES DAMAGE TO PERSONS, MATERIAL LOSSES AND FINANCIAL DAMAGES. THE USE OF THE DEVICE IN AREAS OF PUBLIC TRAFFIC IS UNDERTAKEN AT THE USER'S OWN RISK.

Application area

m-CAN connects all instruments of the motoscope series from motogadget directly to the OBD Interface of Harley Davidson, model year 2004 and up. Installation and connection of additional sensors or other equipment is no longer necessary. Models coming with HD-LAN are not compatible.

Connection

Connect m-CAN and motoscope cable colours as shown in the table below. Connect the cables properly with a solder, a crimp or a plug and socket connection. Make sure the insulation of the connection is adequate. A weak insulation may wear due to vibration. An inaccurate connection or insulation can cause a short circuit or a malfunction of the motoscope.

An additional feature of m-CAN is its output for the vehicle warning lamp. As long as an error code is set, the green cable of m-CAN will drain to battery ground. At this cable you can connect a light bulb with max. 0,5W, a LED with series resistor or directly an indicator light of the motogadget indicator light series (motosign, HD handlebar clamp). If the Output is activated by the m-CAN, the connected light will flash. **Attention!** Connecting m-CAN's green cable straight to +12V will destroy this output.

Installation

Locate the "Data Link" interface connector. It is located under your seat or behind the side cover, depending on model and year

For the place of attachment consider a sufficient distance to hot engine or exhaust parts (max. ambient temperature in operation is 85°C). Attach the m-CAN with cable ties at the wiring loom or a frame tube. Install the cable for the motoscope along the vehicle harness. A sufficient strain relief and bend protection of the cables is important. At mechanically stressed areas an additional insulating may be necessary to prevent cable damage. Mechanical forces (pull, push or shock) act on the device must be avoided. If the installation electrical connection to the instrument is finished, plug m-CAN's connector into the "Data Link" interface.

Instrument Setup

Please adjust following settings: ImpW=4, ImpE=1 and Circ=2000mm.

m-CAN cable	configuration	motoscope mini	motoscope classic	motoscope tiny	SureShift	motoscope PRO	Multiview
-	battery plus +12V	-	-	red	-	red	-
red	switched plus +12V	red	red	brown	red	brown	red
black	vehicle earth	black	black	black	black	black	black
yellow	tacho signal	yellow	yellow	-	yellow	yellow	yellow
white	speed signal	white	orange	orange	white	white	white
green	output malfunction indicator lamp	see connection scheme					

