mo.tri – Installation and Operating Instructions
Triumph Scrambler 2011, 12, 13, 14, 15

Thank you very much for choosing a high quality product from motogadget.

Please note the correct order of the steps to be performed as given in these operating instructions. Please check the proper connection of the instrument several times. Faulty connections can result in damage to the vehicle, instrument and mo.tri. First, please check if you have ordered the correct version, i.e. the device is matching to the year of manufacture of your vehicle. motogadget can provide technical support only if you return the mo.tri with connected instrument including the VIN (Vehicle Identification Number).

THE CASING MUST NOT BE OPENED. IN CASE OF NON-COMPLIANCE, ALL WARRANTY CLAIMS WILL BECOME VOID. THE ONLY INTENDED USE OF THIS DEVICE IS THE COMBINATION WITH MOTOGADGET INSTRUMENTS. IN CASE OF IMPROPER USE WITH THIRD-PARTY INSTRUMENTS ALL WARRANTY CLAIMS WILL BECOME VOID. IN CASE OF NON-INTENDED USE, THE DEVICE MAY BE DAMAGED. IN CASE OF MALFUNCTIONS, THE MO.TRI HAS TO BE RETURNED TO MOTOGADGET FOR INSPECTION, TOGETHER WITH THE USED MOTOGADGET INSTRUMENT. MOTOGADGET WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT OR SUBSEQUENT DAMAGE OF ANY KIND RESULTING FROM USE, INSTALLATION OR CONNECTION OF THE DEVICE OR OTHER DELIVERED EQUIPMENT. THIS EXCLUSION OF LIABILITY APPLIES TO, INCLUDING BUT NOT LIMITED TO, PERSONAL, MATERIAL AND FINANCIAL DAMAGES. PARTICULARLY, THE USE IN PUBLIC TRAFFIC IS AT THE USER'S OWN RISK.

Scope of Application

Using the mo.tri, all motogadget instruments (except motoscope Pro) can be connected directly to the instrument connectors. There is no need for modifications on the original motorbike wiring harness. ***The year of manufacture of the vehicle can be identified at position "11" in the vehicle identification number (from left). Example: "8" = 2008, "A" = 2010, "B" = 2011, "D" = 2013 etc. The registration date in the vehicle documents is not identical with the year of manufacture.***

Instrument installation

According to the respective manual, remove the original instruments. Subsequently, the mo.tri connectors will be connected to the instrument connector on the vehicle. Mount the motogadget instrument and, if available, the motogadget indicator lights assembly on the vehicle. Now route the cables of the instrument and the indicator lights assembly to the position of the original connectors. Carefully remove 50 mm (2 in.) of the cable jacket. Next, remove 10 mm (approx. 1/2 in.) of the strand insulation and slide the end ferrules onto the exposed strand ends. Cut off any excess cable material using wire-cutting pliers.

Connecting the motogadget instrument to the mo.tri

To protect the components, **make sure** to apply contact grease to all metal parts of the screw-type terminals. Insert the instrument cables into the corresponding terminals (see table below) and tighten the screws.

Terminal	motoscope mini	motoscope classic	motoscope tiny	SureShift	Multiview
25	-	-	red	-	-
26	red	red	brown	red	red
24	black	black	black	black	black
9	green	green	green	green	green
8	yellow	yellow	-	yellow	yellow
7	white	orange	orange	white	white

Connecting the motogadget indicator lights to the mo.tri

Together with the end ferrules, insert the cables of the indicator lights into the screw-on terminal (see table below) and tighten the screws.

Terminal	- motosign mini - ms cobi frame - Active view	- HD handlebar clamp - metric handlebar clamp	motoscope tiny	motoscope classic
19	red	purple	yellow	white/orange
20	green	white	blue	blue
21	black	yellow	white	grey
22	purple	green	purple	white/green
23	blue	black	bridge to terminal 19	bridge to terminal 19
24	yellow + orange	blue + orange	-	white/brown
26	brown + white	red	-	white/yellow
-		brown	-	-

mo.tri

motogadget

Connecting the supplied motogadget vehicle connector to the mo.tri

Insert the cables of the model-specific connectors (included) with the attached end ferrules into the screw-type terminals (shown in table on right) and tighten the screws.

Connect the grey motogadget connector (with 3 connector cables) to the speedometer connector on the vehicle.

Connect the red motogadget connector (with 8 connector cables) to the rev counter connector on the vehicle.

CHECK PLUG POLARITY! THE RETAINER CLIPS OUTSIDE THE MALE HAVE DIFFERENT SIZES. PROOF THEY FIT PRECISELY INSIDE THE FEMALE PLUG HOUSING.

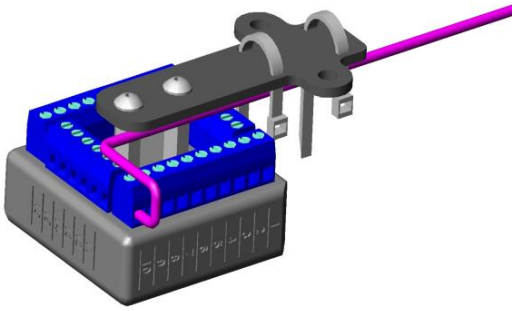
Terminal	Connector cable – Color code
30	orange
31	grey
12	blue
13	yellow
29	black
28	red
27	brown
11	green
10	purple
14	white
3	black

Connecting the menu push-button

The menu push-button is connected to the terminals No. 17 and 18. The polarity is irrelevant.

Mounting the cables to the mo.tri

Screw the provided black mounting plate to the two mounting bolts on the mo.tri. To ensure optimum strain relief, combine all connecting cables (see right figure) and mount them to the mounting plate using both tie-bands. The mo.tri is mounted to vehicle parts or the vehicle wiring harness by screws or tie-bands respectively, with both bores of the mounting plate.



Notes

No additional mounting of cables fuses required.
Short-circuits of terminal block outputs or contact to ground or +12V respectively may damage the device and/or vehicle.
In case the error indicator light is flashing after initial connection, after performing 2 vehicle warm-up periods (maximum), the error will be reset automatically.

Instrument settings

motoscope mini, motoscope classic and Chronoclassic: ImpE=1, ImpW=1 and Circ=2000.
motoscope Tiny: Pulse=1, Circ=2000.

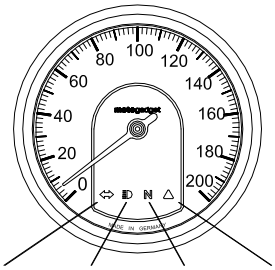
Initial Start-up and Troubleshooting

On initial start-up (each time the connector of the vehicle had been disconnected), the software version of the mo.tri will be displayed in the 'speed' field for 3 seconds, followed by displaying the vehicle selection for 3 seconds. (Provided that proper settings have been performed (see above). If the connected instrument is not starting, switch ignition and kill switch off and disconnect the red plug while leave the grey plug connected. Wait for 10 minutes and connect the red plug again. Switch ignition and kill switch on, now the instrument should start.

Indicator Modes

4 indicator lights

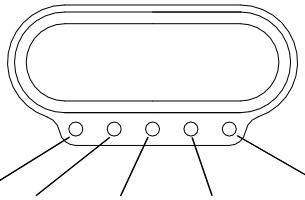
motoscope tiny / speedster / vintage
motoscope Classic / Chronoclassic



turn left / right
high beam
neutral
oil pressure oil hot (blinking)
low fuel (permanent)
ECU error (blinking)
security (blinking if ignition lock off)

5 indicator lights

active view
motosign mini
ms combi frame
handlebar clamp



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