

User manual.

!! NOTE !!

This user manual referent from VIS-T default setting only.
Motogadget Chrono classic V2 display.

Indicator reference.

Display state.	Turn(MIX L+R). 	High beam 	N 
Neutral gear.			Always ON
High beam.		Always ON	
Heat grip step change.		Blinking.*as step.	
High temperature warning.	 Always ON Message warning.		
Turn left. / Turn right.	Blink as same turn bulb.		
Low fuel.	 Always ON Message warning.		
Engine light.	 Always ON Message warning.		
Oil pressure fail. (Engine running.)	 Always ON Message warning.		
High temperature warning is highest prioritize. - High beam and Heat grip step change will be ignore. Oil pressure fail is highest prioritize. - Engine light will be ignore.			
Heat grip step blinking. Step 1 blink 1 time >> Step 2 blink 2 times.			
Fuel leveling % display. Use VIS-T PROG software to teach value. See “Software instruction.PDF” for more information.			

VIS-T control setting. Info button setting / display.					
Press & hold info button on handle bar. Release to enter setting.		Operate	Indicator	Speed	RPM
Step sequence	Fuel level. Set to disable. This step will skip. *SET in software VIS-T PROG 1  +  + 	100%	   Blink	100	6000
Fuel check. While indicator blinking. Press info button to exit.		90%		90	5500
		80%		80	5000
		70%		70	4500
		60%		60	4000
		50%		50	3500
		40%		40	3000
		30%		30	2500
		20%		20	2000
		10%		10	1000
		0%		0	0
		2  +   + 		Ride mode.	RAIN  +  
ROAD  +  	40	4000			
SPORT / OFF-ROAD   + 	60	6000			
3  +   + 	Traction control operate.	TC ON (Active)		20	2000
TC OFF (Deactivated)  		60	6000		
4  + 	ABS operate.	ABS ON (Active)  + 	20	2000	
		ABS OFF (Deactivated)  	60	6000	
	Cancel	None operate / Repeat process.			
Speed / RPM can be disable display. **Speed display is KM/Hr by default. Use VIS-T PROG software to set setting. See “Software instruction.PDF” for more information.					

Heat grip control. Use OEM heated grip.

Press & hold heated grip switch for 1 second.  High beam indicator will lid up. Heat grip is on.

Press & Release switch increass power to next step. Each step change  will blink as step. 1 time step 1 > 2 times step 2.

Press & hold heated grip switch for 2 seconds to turn off.

CLEAR ENGINE CODE.

Ignition key to ON and OFF-RUN position to ON. Engine not running.

Press & hold info button over 10 seconds to access feature “CLEAR ENGINE CODE”

Indicator:  will blinking than release info button.

Wait until all indicator constant on.  Done process. Than turn ignition key to OFF.

Default VIS-T output setup for Motogadget Chrono classic V2.

[Channel] VIS-T connectors.		Operate
[1] Info switch		Directed connect to Info button on handle bar.
[2] D+		Data+(A) USB tools signal.
[3] D-		Data- (B) USB tools signal.
[4] RPM		RPM signal.
[5] Speed		Speed signal.
[6] Oil pressure	BUS drive.	Oil press only (ON/OFF) ** LOCK **
[7] N / BUS	Low drive.	Neutral gear.
[8] H-Beam	High drive.	High beam + Heat grip (Blink)
[9] Turn	High drive.	Turn Left.
[10] AUX1	Low drive.	ENGINE
[11] AUX2	Low drive.	Road mode.
[12] AUX3	Low drive.	Rain mode.
[13] AUX4	Low drive.	Side stand.
[14] AUX5	Low drive.	ABS INDC + OFF
[15] AUX6	Low drive.	TC INDC + OFF
[16] + BATT		+12v Direct form positive battery. (Always power)
[17] + KEY		+12v Ignition key. (Power 12v while ignition key turn ON)
[18] Fuel		Constant 0 volt. ** Not in use.
[19] GND		Ground

Wheel pulse / REV.	1	Turn flash	BLINK ON/OFF
Wheel diameter (mm)	2000	Cycle	1
RPM pulse / REV.	1	On time	500
Speed type.	KM/Hr	Off time	500
RPM Flash @REV.	6500	Off hold time	500 *Not in use.
RPM Flash speed.	150	Turn flasher can adjust timing as user decide.	

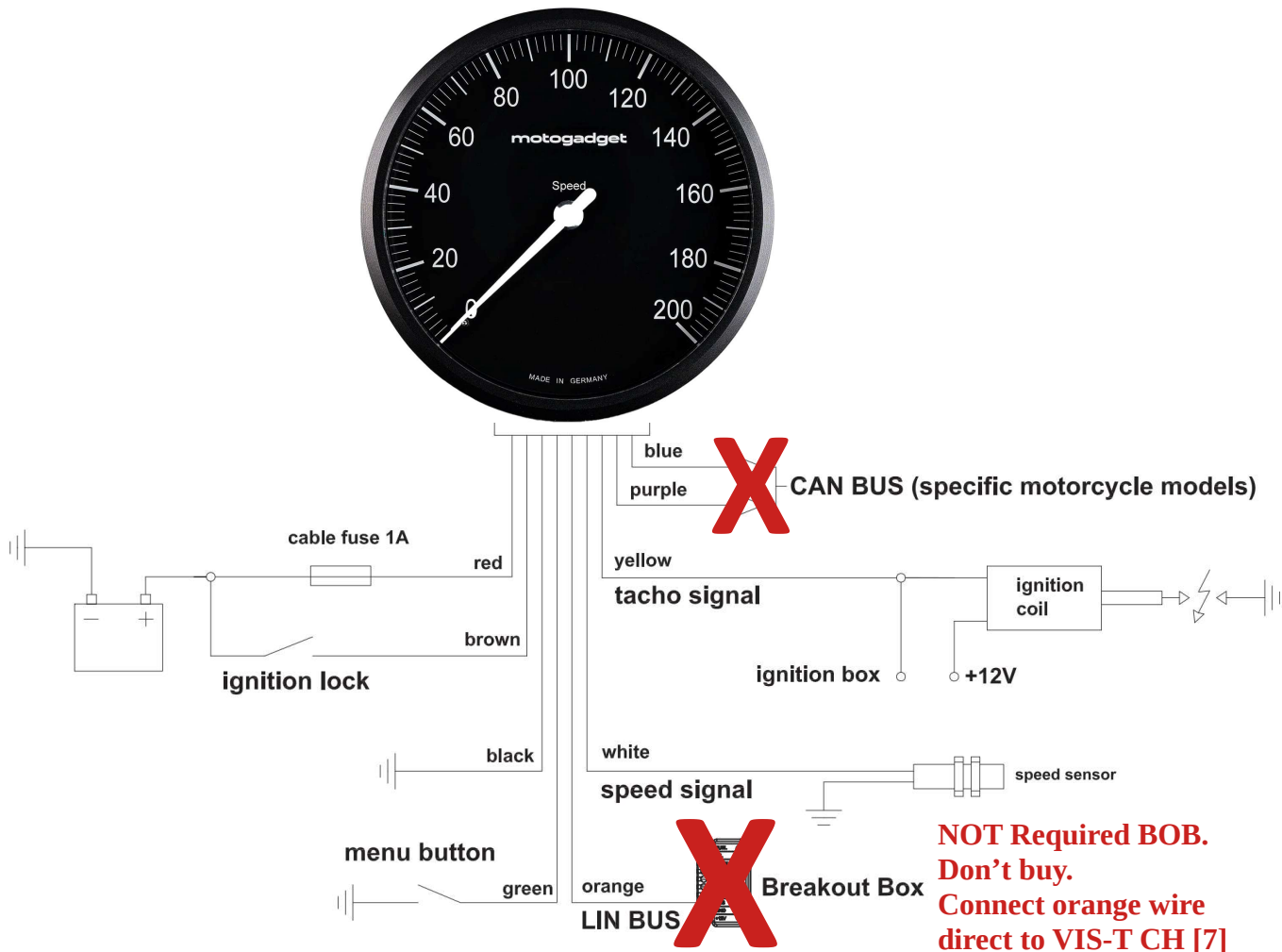
Fuel / Temp / Heat grip			
Full level.	NOT USE.	Heat grip step.	2
Empty level.	USE TEACH ON GAUGE.	Step 1	50%
Low fuel warning.	ECU	Step 2	100%
Warning temperature.	KM/Hr	Step 3	-
Oil pressure midpoint.	50%	Step 4	-

Continue.

Info / Mode control		
Fuel level.	RPM & Speed	Ignition ON.
Traction control	RPM & Speed	Last setting.
ABS	RPM & Speed	Last setting. *Some models bike will be DISABLE.
Ride mode	RPM & Speed	Last setting. *Some models bike will be DISABLE.

Driver test Speed / RPM calibrate.		
RPM calibrate.	0	[] Minus. *unchecked
Speed calibrate.	0	[] Minus. *unchecked

Wiring diagram chrono classic V2.		
[Channel] VIS-T connectors.	Signal wire.	Wire color.
[4] RPM	RPM signal.	Yellow
[5] Speed	Speed signal.	White
[7] N / BUS	BUS.	Orange
[16] + BATT	Battery plus.	Red
[17] + KEY	Switched plus.	Brown
[19] GND	Earth.	Black
[19] GND --- Button --- Green	Menu button.	Green
Wire from gauge can direct connect to VIS-T.		
Blue & purple wire from chrono classic V2 not connect.		



Motogadget chrono classic V2 setting value.

Motogadget chrono classic V2 SETUP.	Value
PARAM CIRC	2000 * This value not circular of tire. Set same as VIS-T prog.
PARAM ImpW	1
PARAM ImpE	1.00
PARAM ImpF	A
PARAM UNIT DIST	KM *Default is kilometers.

VIS-T PROG Preset setting. ** For more description detail / instruction of software PDF available in website.

VIST PRO

FW VERSION 1.01

Model bike : Speed TWIN 1200 EU5 (2021-2024)(Needle)

Disconnect

VIS-T PROG

Series : Dual ID : VX25xxx Operate life time : 0 hour 0 min COMPORT COM6

Function/Output Setup

Fuel / Temp / Heatgrip

Info/Mode control

Driver test

Models

Channel	Driver	Invert signal	Operate		
[6] Oil press	Low drive only	--	Oil press only (ON/OFF)		
[7] N	Low drive only	--	Neutral gear		
[8] High beam	High drive only	--	High beam + Heat grip		
[9] Turn left	High drive only	--	Turn Left		
[10] AUX1	Low drive	--	ENGINE		
[11] AUX2	Low drive	--	ROAD MODE		
[12] AUX3	Low drive	--	RAIN MODE		
[13] AUX4	Low drive	--	SIDE STAND		
[14] AUX5	Low drive only	--	ABS INDC + OFF		
[15] AUX6	Low drive only	--	TC INDC + OFF		

Wheel pulse / rev

1

Wheel dia (mm)

2000

RPM pulse / rev

1

Speed type

KM/Hr

RPM Flash @rev.

6500

RPM Flash speed(mSec)

150

SET

Reload

Turn flasher

BLINK ON/OFF

Turn flasher cycle

1

Turn flasher on time

500

Off time

500

Off hold time

0

milliseconds

Flasher set

Turn on left-right / hazard switch for check result of setting.

Preset gauge profile

SET

Motogadget Classic V2

ABS control available on models.

Street scrambler (2016-2018), Thruxton and Thruxton R.

Ride mode.

Sport mode Thruxton, Thruxton R, Thruxton RS and Speed twin 1200.

Off-road mode Street scrambler (2019-2020), Street scrambler (2021) and Scrambler 900(2021-2024).

Off-road mode operate will force ABS & TC to OFF. *Road & Rain mode. Traction control using last setting.

Motogadget chrono classic V2. Setting guide.

SETUP Screen. *Recomend display.

Clock	ON	Oil TMP	OFF
Volt.	ON	H2O TMP	ON
RPM	ON	AIR TMP	ON
Fuel	ON	Oil PRSS	OFF

Another display depend on user.

PARAM SETUP.

CIRC	2000	Imp E	1.00
Imp W	1	Imp F	A
SCAL	8000 or 10000		
Unit select	DIST = KM or mile	TEMP = C	PRES = Bar

Massage SETUP.

OIL SW	ON	Voltage	12.0 V
OIL PR	0.0 bar	Engine	ON
OIL TMP	000 C	Fuel	20% or 30%
H2O TMP	115 C. 	AIR TMP	00 C
*H2O TMP Set match on same VIS-T PROG.		Service	*Depend on user.

System SETUP.

ODO	*Depend on user.	BOB VER	V 371
System VER	010054 *Depend on FW.	*Orange wire bus check. Should see this number.	

Function/Output Setup

Fuel / Temp / Heatgrip

Info/Mode control

Driver test

Models

READ INSTRUCTION BEFORE PROCESS

Fuel signal

Full level volt. Low fuel warning

Empty level volt.

Full level AND Empty level should match value to gauge.
Value level variant depend on each gauge. Find best value on it own.

Default low fuel warning set at 30%
[SET FUEL VALUE] Before test fuel level.

Warning coolant temperature

C

Default at 115 C

Temp warning signal will be show up when temperature reach over setting point.

Oil pressure switch

%

Default at 50%
Level detect of oil pressure switch.

Level oil pressure sensor.

Test fuel level

Heat grip power

Max step

Power output %

Step 1

Step 2

Step 3

Step 4

BOBVER

V 371

Teach fuel leveling.

Use VIS-T PROG to teach fuel level.

See “Software instruction.PDF” for more information.

- 1.Setup & connect USB tools.
- 2.Open software & connect comport.
- 3.Goto tab Fuel/Temp/Heatgrip.

Enter to setup.

Page Setup config > Config FUEL .

- 4.Click Send high level on software.
- 5.Teach high level on chrono classic V2. Value should get 11000 on full.
- 6.Click stop.
- 7.Click Send low level on software.
- 8.Teach low level on chrono classic V2. Value should get 1000 on empty.
- 9.Click stop.
- 10.Done.

High



Low



CONFIG SENSOR

This setting should set in LOW.

Enter to setup.

Page Setup config > Config sensor .



Function/Output Setup

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Temp warning signal will be show up when temperature reach over setting point.

Oil pressure switch

%

Default at 50%

Level detect of oil pressure switch.

Level oil pressure sensor.

--

Read sensor

SET MIDPOINT

Test fuel level

SEND High level

SEND Low level

Heat grip power

Max step

Power output %

Step 1

Step 2

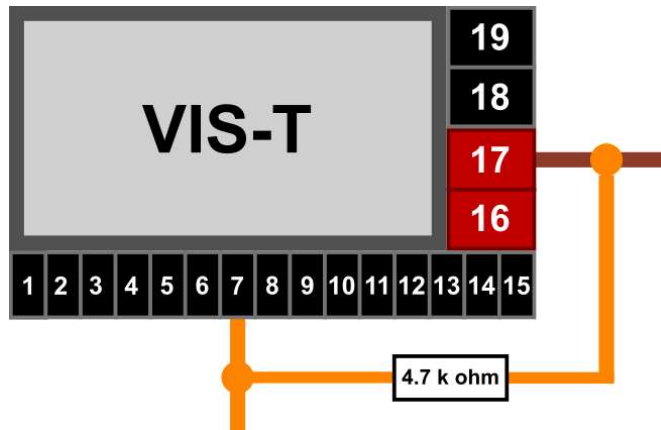
Step 3

Step 4

Reload

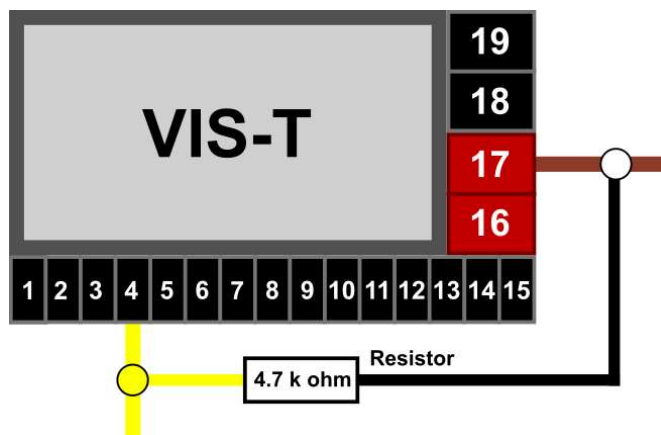
Improve LIN BUS signal. (Orange wire)

Some issue appeared after engine running indicator, value sensor not display and function missing.
Signal bus is disturb.
Add resistor series on wiring below.
Help to improve signal bus driving to gauge.



Improve RPM signal.

For motogadget RPM wire not required external resistor to drive 12volt signal. No need to add resistor.
Some issue appeared after engine running get RPM swing up/down or not stable.
Make sure setup guage **ImpF is A *default**. Or Set another B, C and D of fillter signal.
If issue not solve.
Add resistor series on wiring below.
Help to improve RPM signal driving to gauge.



External LED for VIS-T AUX channels.

High or Low drive should wiring as circuit below. Led polarity is important.

VIS-T power
terminal.

VIS-T AUX
Channels.

