



VIS-T PRO

Visual instrument For Triumph classic liquid cool year 2016+

- Dual Series** ☆ **Street cup 2016, T100 (2016-2020), T120(2016-2020), Thruxton R (2016-2019)(TFC)**
- Single Series** ☆ **Street Twin(2016-2019), New Street Twin (2019+), Bobble (2016-2018), Bobble Black (2018+)(TFC), Street scramble(2016-2019)**

FEATURES.





- Replacement OEM Triumph instrument Liquid cool year 2016 or later.
- Easy to install (Plug n play).
- Use single **i** button for all control.
- Support ON-OFF ABS & Traction control. *Depend on model.
- Support Mode : Road , Rain , Sport. *Depend on model.
- Support third party or custom instrument (such as : Motogadget) *Tested only.

SPECIFICATIONS.

- Dimension 25x45x53 mm.
- Weight ~ 65 grams.
- Waterproof. (IP28)
- Operating temperatures range (-20 to +65 C° ambient)
- Supply voltage operate 8 - 16 Volt.




INDICATOR LIGHT.

- Oil / Engine  Oil pressure / Warning engine light
- Turn  Turn / Low fuel
- Neutral  Neutral gear / Side-stand
- H-Beam  High beam / Coolant temperatures over 110 C°






SPECIAL FUNCTION.

- ON-OFF ABS & Traction memory (NOT reset when On-Off key every time).
- Fuel level. (Display via instrument speed & RPM)
- 6 Output LED for special custom indicator. Freely to program.
[Traction, ABS, gear position, Riding mode, Cruise control indicate, Shift light & Speed limit]
- Build-in Diagnostic Clear engine code function.
- Self test speed & RPM.
- Adjustable wheel circular & Pulse/Rev. Include engine RPM pulse/Rev.


Note

- ☆ One-year life time warranty. (The conditions are as specified.)
- ☆ Firmware update support. *see instruction
- ⚠ VIS-T no longer to support Heat grip function.
- ☆ **For more information please contact email : Contact@PEAK-MOD.com**
- ☆ WWW.PEAK-MOD.COM ☆  PEAK MOD

VIS-T PRO I/O Connectors.

1. Control SW	Input	Internal connected to OEM  button.
2. DATA+	Signal out	DATA+ & DATA- Data communication
3. DATA-	Signal out	for PEAK-MOD product only.
4. RPM	Output	RPM signal.
5. SPD	Output	Speed signal.
6. Engine/Oil	Output 	Oil pressure / Engine / Warning light indicator.
7. N	Output 	Turn / Low fuel indicator.
8. Turn	Output 	Neutral gear / Side-stand indicator.
9. H-Beam	Output 	High beam / Coolant temperatures indicator.
10. PG1	Output LED	Default set as : ABS indicator.
11. PG2	Output LED	Default set as : Traction control indicator.
12. PG3	Output LED	Default set as : Oil pressure indicator.
13. PG4	Output LED	Default set as : Engine warning light indicator.
14. PG5	Output LED	Default set as : Rain mode indicator.
15. PG6	Output LED	Default set as : Speed warning upper 120 Km/Hr.

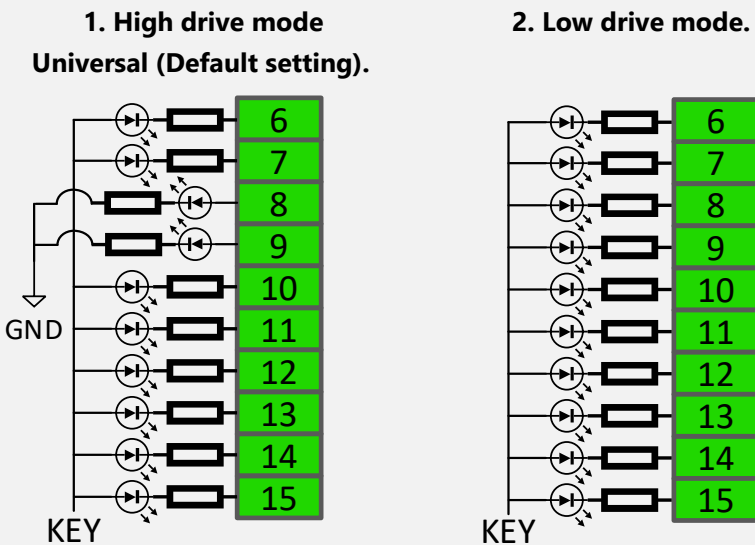
Power Connectors.

- 16. +12 Volt form Battery. (Connected directly to +battery. Please carefully. )
- 17. +12 Volt form ignition key.
- 18. Signal form internal flasher relay (Internal connected to OEM turn switch.)
- 19. Ground (-)

Cautious

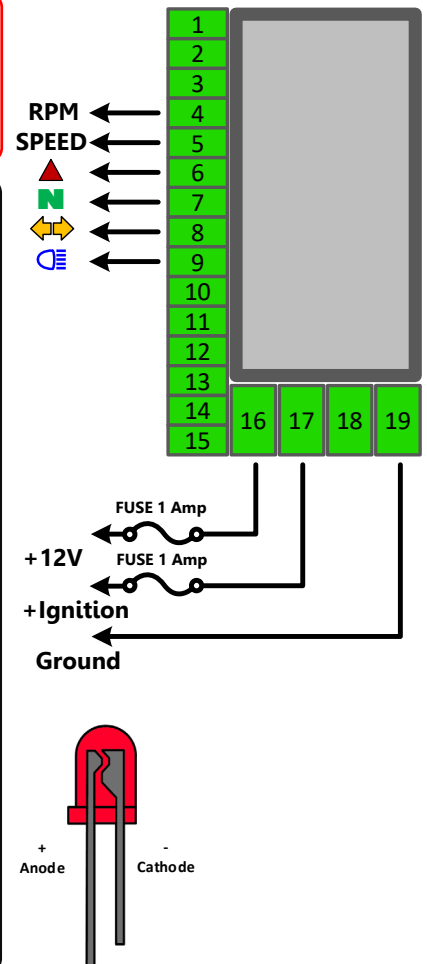
Power connectors 16 & 17 currents not exceed 1 amp.
Please install glass fuse for protection internal break circuit.
Note. All output 4 to 15 max currents at 0.02Amps per channel.

Driver mode for LED drivers.



Note.

Please use resistor 1/4w for reduce led brightness.
Suggest resistance values 100 Ohm to 10k Ohm.
Value of resistance depend on LED brightness & color.



VIS-T Installation guide

1. Remove negative polarity battery before install VIS-T.
2. Remove stock instrument.
3. Connect VIS-T to gray connector plug.
4. Reconnect battery and try to start engine.
5. Turn engine off and disconnect battery again.
6. Wiring VIS-T to custom instrument.
7. On gray plug. Apply non corrosive grease before plugged in.
8. Reconnect battery and start engine & check all indicator.
9. Warp all connection point around VIS-T with electrical tape.

For custom instrument follow setting wheel size to 2000mm & wheel pulse to 1 per wheel rev.
VIS-T unit set wheel size default set at 2000mm. For reference speed (speedo meter) show corrected speed.
Make sure wheel size on custom instrument and VIS-T set as same value.

!! IF ENGINE CAN NOT START !! And fuel pump not running up after turn on key and kill switch.
Warning light indicator will be rapid flash.
Make sure use VIS-T corrected bike models & models year.
Wrong models & year not compatible to each other.

After start engine check all indicator, speed, RPM & Led indicator everything working fine?
If not re-check wiring connection to instrument again.
Led indicator not indicate. See LED wiring diagram.
*Fuel level showing up & low fuel indicator will gone after bike run a few miles.

Caution

- ❖ DO NOT SWAP VIS-T PRO Single series & Dual series ON WRONG MODEL. *It might damage ECM.*
- ❖ Apply white-grease (non-corrosive grease or chain lubricant) on gray connectors (on both).
- ❖ Make sure warp electrical tape or shrink tube on connection point avoid short circuit.
- ❖ Do not over tight on screw connectors. *Stripped thread & bolt not in warranty terms.*

Term of installation.

Install VIS-T PRO and third-party instrument. Take a risk on it own.
Wrong wiring point might take electronic part cause short circuit or malfunction.
!! Be careful of installation. !!
Please make sure every connection point warp with electric tape or shrink tube.
Electric short circuit might cause bike on fire.

If not understand how to installation. None of electric skill.
Please leave professional do.

More information.

www.PEAK-MOD.com

Email - CONTACT@PEAK-MOD.com

VIS-T PRO User(rider) manual

- Side stand :** When side stand down, gear position in idle & engine running. Neutral indicate will be blink. This side stand indicate can be disable by follow VIS-T setting page. When disable side stand indicate. Neutral indicate not blink anymore.
- N gear position :** Gear position in idle. Event engine running or not.
- Low fuel :** Low fuel warning. This indicate always show up if fuel level going low in gas tank.
- Turn signal :** Blinked when turn signal currently in use.
- Engine light :** Warning engine light show up. Something going wrong. Diagnostic engine code to solve this issue.

⚠ This warning very critical. Please stop engine immediately. ⚠

- Coolant temperature over 110 C° :** Check water cooling level or leaked point immediately.
- Low oil pressure :** Oil pressure is too low. Refill motor oil.

VIS-T PRO can control by press & hold **i** button until indicate show up as table below and then release button to change state. Riding mode can use "MODE" button on OEM handle bar to change riding mode as well.

Some models bike don't have MODE & ABS control. This control sequence will not show any indicate & ignored that option.

Please keep pressing **i** button until get next control option. If don't seen any indicate can release button to cancel.

After entered.

Fuel level light signal indicate, SPEED & RPM will show up as table below. For 10 seconds or press **i** to return..

Traction control & ABS control will show operate as table below. Please wait until indicator process complete.

RIDER MANUAL

Indicator display Status	Indicator after engine running			
	Neutral	Turn	High beam	Warning
Side stand	Blink			
N gear position	On			
Low fuel		Always on		
Turn signal		Blink		
Coolant temp over 110 °C			Flash	Flash
Low oil pressure warning				Flash
Engine light				Always on

Press & hold **i button until indicate show up As table below. Release button to setting.**

Control sequence	Indicator light			
	Neutral	Turn	High beam	Warning
Fuel level ↓			ON	ON
Ride mode ↓		ON	ON	ON
TC control ↓			ON	
ABS control ↓		ON		
Cancel	OFF	OFF	OFF	OFF

Ride mode & ABS not available for some models. Control will be ignored.

Fuel level + blink (SPEED&RPM show as table)			
Fuel level	Speed	RPM	
10%	10 km/h	1000	
20%	20 km/h	1500	
30%	30 km/h	2000	
40%	40 km/h	2500	
50%	50 km/h	3000	
60%	60 km/h	3500	
70%	70 km/h	4000	
80%	80 km/h	4500	
90%	90 km/h	5000	
100%	100 km/h	5500	

Mode + + Blink 3 seconds (Mode changed)				
	Speed	RPM	On 2 sec.	Mode operate depend on models. If not support this function will ignored.
RAIN	20	2000		
ROAD	40	4000		
SPORT	60	6000		

Traction control Blink 3 seconds			
	Speed	RPM	2 Sec.
OFF (Deactivate)	10	0	OFF
On (TC operate)	40	4000	ON

ABS control Blink 3 seconds			
	Speed	RPM	2 Sec.
OFF (Deactivate)	10	0	OFF
On (ABS activated)	40	4000	ON

ABS control support for some models. If that models don't have this function ABS always activated.

VIS-T Setting

Entering to setting page.

1. Turn key on 3 second and then turn key off.
2. Press & hold **i** button 1 second & turn key on.
3. Indicator on instrument **▲ N ↔ C/E** will be blink.
4. Select page menu & setting as you need.
5. After completely setting turn key off & on. Return to normal operate.

Menu setting / sub setting.

Navigate	i	Indicator
Next menu or Increase value	Press & release	-
Enter / Return menu	Press & hold 2 seconds.	-
Selected save & return	Press & hold 2 seconds	▲ ↔ C/E N blink 2 times → ↔ C/E → ▲ → N

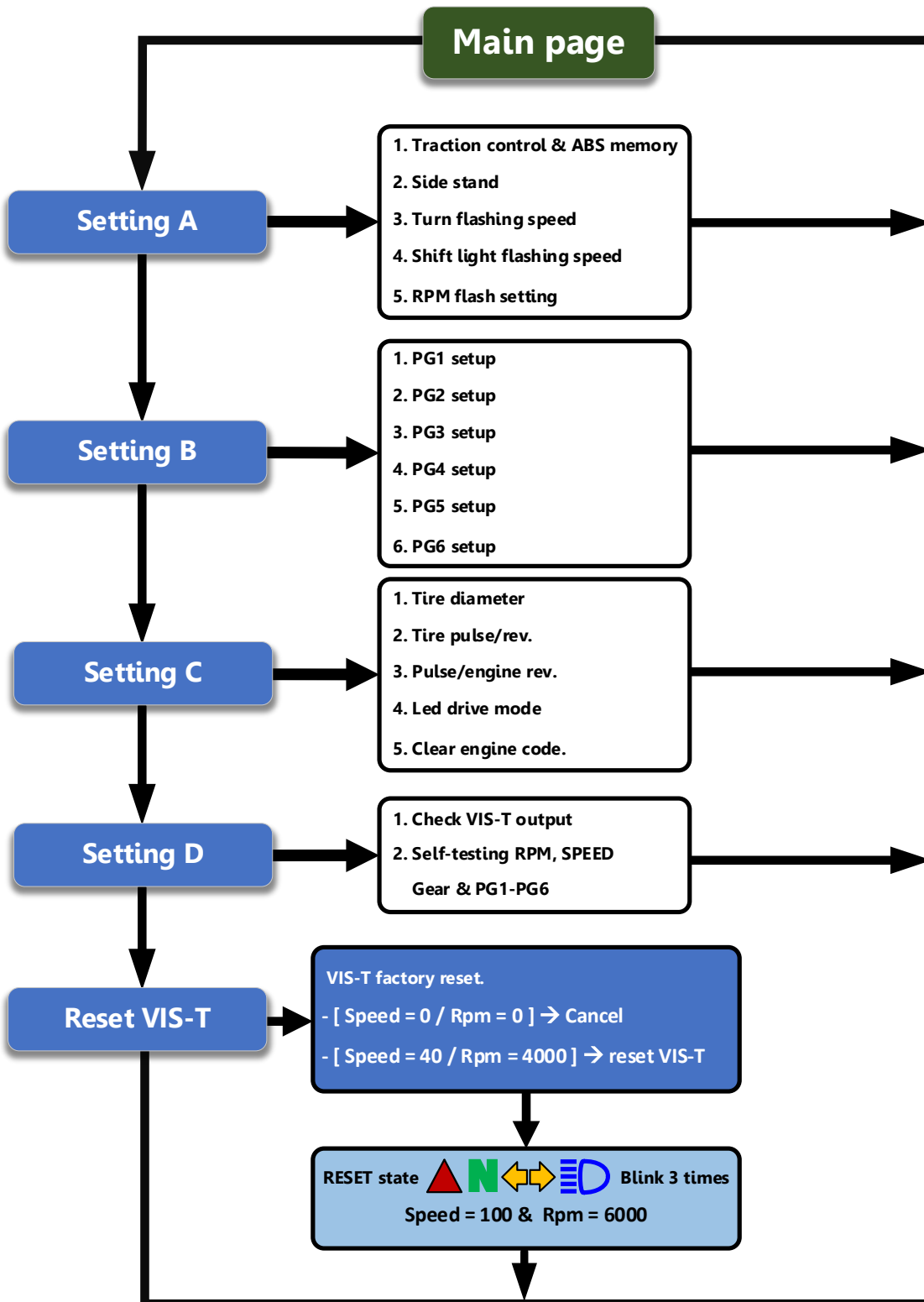
On setting value of RPM, Speed or wheel circular.

Navigate	i	Indicator
Increase value	Press & release	-
Next digits. **Speed** (Hundred→Tens→digit)	Press 2 seconds & release	▲ ↔ C/E Blink
Next digits. **RPM** (Thousand→Hundred→Tens)	Press 2 seconds & release	▲ ↔ C/E Blink
Save & Exit	Press 4 seconds & release	▲ ↔ C/E N blink 2 times → ↔ C/E → ▲ → N

Indicate cycle			RPM setting reference.					
↔	Blink toggle	-	Always on			Always on		
C/E	Blink	Always on	Always on			-		
▲	Blink	Blink	Blink			Blink		
N	-	-	-			-		
Thousand			Hundred			Tens		
Value set	RPM	SPEED	Value set	RPM	SPEED	Value set	RPM	SPEED
-	-	-	x1xx	1000	10	xx10	1000	10
2xxx	1500	20	X2xx	1500	20	xx20	1500	20
3xxx	2000	30	X3xx	2000	30	xx30	2000	30
4xxx	2500	40	X4xx	2500	40	xx40	2500	40
5xxx	3000	50	X5xx	3000	50	xx50	3000	50
6xxx	3500	60	X6xx	3500	60	xx60	3500	60
7xxx	4000	70	X7xx	4000	70	xx70	4000	70
8xxx	4500	80	X8xx	4500	80	xx80	4500	80
9xxx	5000	90	X9xx	5000	90	xx90	5000	90
10xxx	5500	100	X0xx	0	0	xx00	0	0
11xxx	6000	110	-	-	-	-	-	-
12xxx	6500	120	-	-	-	-	-	-

Indicate cycle			Speed setting reference.					
↔	-	Always on	Always on			-		
C/E	Always on	-	-			-		
▲	Blink	Blink	Blink			Blink		
N	-	-	-			-		
Hundred			Tens			Digits		
Value set	RPM	SPEED	Value set	RPM	SPEED	Value set	RPM	SPEED
0xx	0	0	x1x	1000	10	xx1	1000	10
1xx	1000	10	x2x	1500	20	xx2	1500	20
2xx	1500	20	x3x	2000	30	xx3	2000	30
-	-	-	x4x	2500	40	xx4	2500	40
-	-	-	x5x	3000	50	xx5	3000	50
-	-	-	x6x	3500	60	xx6	3500	60
-	-	-	x7x	4000	70	xx7	4000	70
-	-	-	x8x	4500	80	xx8	4500	80
-	-	-	x9x	5000	90	xx9	5000	90
-	-	-	x0x	0	0	xx0	0	0

VIS-T Setting diagram.



MAIN PAGE	Indicate				
		Blink	Blink	Blink	Blink
		RPM		SPEED	
Setting A		2000		20	
Setting B		3000		40	
Setting C		4000		60	
Setting D		5000		80	
RESET VIS-T		6000		100	

Setting A

Setting A	Indicate	▲	↔	N	☰
	1	On	On	-	Blink
	2	-	-	-	-
	RPM		SPEED		
Return to main page	0		0		
Traction control & ABS memory	1000		10		
Side stand	2000		20		
Turn flashing speed	3000		30		
Shift light flashing speed	4000		40		
RPM flash setting	5000		50		

1. Traction control & ABS memory

Set VIS-T for memory Traction control & ABS operate continue after turn ignition key off-on every time.

Indicate		▲	↔	N	☰
		Blink toggle	Blink toggle	-	-
Memory	Enable		Disable		
RPM	6000		2000		
SPEED	100		20		

Disable = Traction control & ABS will force enable (Active) every time turn on ignition key.
 Enable = Traction control & ABS not change setting state.

2. Side stand

Set warning side stand after started engine. Neutral(N) indicate blink while in idle gear.

Indicate		▲	↔	N	☰
		Blink toggle	Blink toggle	-	-
Side stand	Enable		Disable		
RPM	6000		2000		
SPEED	100		20		

Disable = Neutral(N) indicate always on while in idle gear.
 Enable = Neutral(N) indicate blink while in idle gear.

3. Turn flashing speed

Setting turn flashing speed. 12 levels. While in this function turn left or right turn switch to check speed result.

Indicate		▲			↔				N			☰	
		On			Flash time				-			-	
Flash time second	OFF	0.2	0.3	0.4	0.6	0.8	0.9	1	1.2	1.4	1.6	1.8	2
RPM	0	10	20	30	40	50	60	70	80	90	100	110	120
SPEED	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500

4. Shift light flashing speed**

Setting shift light flashing speed. 12 levels.

Indicate		▲					↔			N			☰	
		Flash time					On			-			On	
Flash time (milli second)		50	75	100	125	150	175	200	250	300	350	400	500	
RPM		10	20	30	40	50	60	70	80	90	100	110	120	
SPEED		1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	

5. RPM flash setting

PGx output set to (x-8 RPM with flash. On Setting B)

VIS-T Setting page

After **RPM higher** than this value setting. **PGx output** will be flash.

RPM setting reference

Flash speed set at [**Setting A-4. Shift light flashing speed.]

Setting B

1.PG1 setting indicator.

- 1-1. ABS.
- 1-2. Riding mode - Road.
- 1-3. Riding mode - Rain.
- 1-4. Riding mode – Sport/Off road.
- 1-5. Gear position.
- 1-6. Speed warning (Km/Hr).
- 1-7. RPM.
- 1-8. RPM with flash.

Setting B	Indicate				
	1	On	Blink	-	On
	2	-	-	-	-
	RPM		SPEED		
Return to main page	0		0		
PG1 setup	1000		10		
PG2 setup	2000		20		
PG3 setup	3000		30		
PG4 setup	4000		40		
PG5 setup	5000		50		
PG6 setup	6000		60		

2.PG2 setting indicator.

- 2-1. Traction control.
- 2-2. Riding mode - Road.
- 2-3. Riding mode - Rain.
- 2-4. Riding mode – Sport/Off road.
- 2-5. Gear position.
- 2-6. Speed warning (Km/Hr).
- 2-7. RPM.
- 2-8. RPM with flash.

PGx setting	Indicate				
	1	-	Blink	-	Blink
	2	-	-	-	-
	RPM		SPEED		
Exit / cancel	0		0		
PGx .1	1000		10		
PGx .2	2000		20		
PGx .3	3000		30		
PGx .4	4000		40		
PGx .5	5000		50		
PGx .6	6000		60		
PGx .7	7000		70		
PGx .8	8000		80		

3.PG3 setting indicator.

- 3-1. Oil pressure.
- 3-2. Riding mode - Road.
- 3-3. Riding mode - Rain.
- 3-4. Riding mode – Sport/Off road.
- 3-5. Gear position.
- 3-6. Speed warning (Km/Hr).
- 3-7. RPM.
- 3-8. RPM with flash.

4.PG4 setting indicator.

- 4-1 Warning engine light.
- 4-2. Riding mode - Road.
- 4-3. Riding mode - Rain.
- 4-4. Riding mode – Sport/Off road.
- 4-5. Gear position.
- 4-6. Speed warning (Km/Hr).
- 4-7. RPM.
- 4-8. RPM with flash.

Gear setting	Indicate				
	1	-	-	-	Blink
	2	-	Blink	-	-
	RPM		SPEED		
Gear 1	1000		10		
Gear 2	2000		20		
Gear 3	3000		30		
Gear 4	4000		40		
Gear 5	5000		50		
Gear 6	6000		60		

5.PG5 setting indicator.

- 5-1 Coolant temperature over 110 degree Celsius.
- 5-2. Riding mode - Road.
- 5-3. Riding mode - Rain.
- 5-4. Riding mode – Sport/Off road.
- 5-5. Gear position.
- 5-6. Speed warning (Km/Hr).
- 5-7. RPM.
- 5-8. RPM with flash.

6.PG6 setting indicator.

- 6-1. Cruise control light.
- 6-2. Riding mode - Road.
- 6-3. Riding mode - Rain.
- 6-4. Riding mode – Sport/Off road.
- 6-5. Gear position.
- 6-6. Speed warning (Km/Hr).
- 6-7. RPM.
- 6-8. RPM with flash.

PG1 to PG6 use on own value setting.

Gear position, speed warning, RPM, RPM shift light use value separate each channel.

After select PGx to gear position.

→ follow table Gear setting.

After select PGx to speed warning.

→ **Speed setting reference**

VIS-T Setting page

After select PGx to RPM or RPM with flash.

→ **RPM setting reference**

VIS-T Setting page

Setting C

Setting C	Indicate			N	
	1	Blink	On	-	On
	2	-	-	-	-
		RPM		SPEED	
Return to main page		0		0	
Tire diameter.		1000		10	
Tire pulse/rev.		2000		20	
Pulse/engine rev.		3000		30	
Led drive mode		4000		40	
Clear engine code.		5000		50	

1. Tire diameter (mm.) Range 100 mm. to 3999mm.

****Note** Use RPM & speed to navigate control of this setting value.**

Indicate cycle			Wheel circular setting reference.								
	-	Blink	-			Always on			-		
	Blink	-	Always on			-			-		
	Blink	-	Blink			Blink			Blink		
N	-	-	-			-			-		
Thousand			Hundred			Tens			Digits		
Value set	RPM	SPEED	Value set	RPM	SPEED	Value set	RPM	SPEED	Value set	RPM	SPEED
1xxx	1000	10	x1xx	1000	10	xx1x	1000	10	xxx1	1000	10
2xxx	1500	20	x2xx	1500	20	xx2x	1500	20	xxx2	1500	20
3xxx	2000	30	x3xx	2000	30	xx3x	2000	30	xxx3	2000	30
0xxx	0	0	x4xx	2500	40	xx4x	2500	40	xxx4	2500	40
-	-	-	x5xx	3000	50	xx5x	3000	50	xxx5	3000	50
-	-	-	x6xx	3500	60	xx6x	3500	60	xxx6	3500	60
-	-	-	x7xx	4000	70	xx7x	4000	70	xxx7	4000	70
-	-	-	x8xx	4500	80	xx8x	4500	80	xxx8	4500	80
-	-	-	x9xx	5000	90	xx9x	5000	90	xxx9	5000	90
-	-	-	x0xx	0	0	xx0x	0	0	xxx0	0	0

2. Pulse point / wheel rev. (Sensor pulse per wheel rev.)

Indicate							N			
			Blink		On		-		Blink	
Pointer	1	2	3	4	5	6	7	8	9	10
RPM	10	20	30	40	50	60	70	80	90	100
SPEED	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500

3. Pulse point / engine rev.

Indicate							N			
			Blink		Blink		-		On	
Pointer	1:1	1:2	1:3	1:4	1:5	1:6	1:7	1:8	2:1	
RPM	10	20	30	40	50	60	70	80	90	
SPEED	1000	1500	2000	2500	3000	3500	4000	4500	5000	

4. LED driver mode. (For Turn indicator & High-Beam indicator)

Indicate							N			
			Blink		Blink		-		On	
Driver	High drive (use for connected to instrument.)					Low drive (Easy to wiring to led)				
RPM	6000					2000				
SPEED	100					20				

5. Clear engine code

SPEED = 120 → → → → → → → Clear complete.
 RPM = 7000

Setting D

Setting D	Indicate	▲	↔	N	☰
	1	-	Blink	-	-
	2	Blink	-	-	-
	3	-	-	-	Blink
	RPM		SPEED		
Return to main page	0		0		
Check VIS-T output	3000		50		
Self-testing RPM, SPEED Gear & PG1-PG6	6000		100		

1. Self check output testing.

For test speed, RPM show corrected value on instrument & test all output work correctly.

Every 1 second will indicate.

- N → ▲ → ☰ → ↔

- PG1 → PG2 → PG3 → PG4 → PG5 → PG6

Every 4 seconds speed & RPM will increasing.

- Speed step up (km/Hr.) : 0 → 20 → 40 → 60 → 80 → 100 → 120 → 140 → 160 → 180 → 200

- RPM step up : 0 → 1000 → 2000 → 3000 → 4000 → 5000 → 6000 → 7000 → 8000 → 9000 → 10000

- Turn flash signal blink half of second. Turn L R switch or hazard switch to test.

Press & hold ⓘ 3 seconds exit to main page.

2. Self test RPM SPEED All indicate testing.

For test speed warning, RPM & RPM with flash.

Check PG1-PG6 output by reference from Setting B.

Speed & RPM increase slowly to check result of PGx channel operate will shown as user setting.

- RPM sweep to 0-10000

- Speed sweep up 0-200

Every 1 second.

- Gear count up N → 1 → 2 → 3 → 4 → 5 → 6

Press & hold ⓘ 3 seconds exit to main page.