Meter Bracket & Harness Kit(For Super Multi TFT Meter)Instruction manual

Product number 05-06-0029

Adaptation For motorcycle with DC12V battery.

Thank you very much for purchasing our products.

Thank you so you will comply with the following matters at the time of use. Before installation, please check your always kit contents. If there is a point of notice event, Please contact us the dealer of purchase.

◎ If the description, such as photos or Illustration different with this part.

\Leftrightarrow Please read carefully before use \Leftrightarrow

◎ The use ignoring the instructions that are written in the manual, if the accident or damage has occurred, we can not assume any responsibility for compensation.

◎ This product installation and use, when a problem occurs to after market goods, guarantee other than this product, also can not assume any in any such matters.

◎ If it was the case or mounting that has been processed like a product, it will not be covered under warranty.

◎ It is not possible to inquire of the combination of other manufacturers.

◎ This product is the above-mentioned vehicle exclusive goods. Is not possible attached to the other vehicle. Please note.

© Do not use gasoline or thinner (or any solvent) cleaning this product. There is a risk of deterioration of rubber and plastic parts. ◎ If you have any questions, please contact your local Takegawa dealer.

◎ Product may have edges or protrusions. Be sure to wear working gloves.

(Please wear work gloves when working, even if a photo in this article show without work gloves.)

- ◎This product is a standard bracket kit for installing the Super Multi TFT meter on applicable models. The sub-harness and small parts come with this kit are general purpose parts for DC12V models. (Caution: SP Takegawa mini regulator can not be used with this products) ◎ This product cannot be used to meters other than Super Multi TFT Meters.
- O Product and programs are subject to change and improvement without notice.

Even with the same product number, the operation and screen may slightly differ depending on the production time.

◎ Caution: Some vehicles, when replacing the sprocket, the error code such as "ABS" may come on but it cannot be erased. (even speed display setting is changed)

~ feature ~

The Super Multi TFT meter can be attached to the DC12V models with a custom bracket and sub-wire included in the kit. Using a rubber mount prevents vibration to the meter body

This custom meter can be equipped a great many functions such as rotation speed, gear position, thermometer, battery voltage display, tire outer diameter correction, power test function, etc. (in addition to speed, odd / trip meter)

You can change the display and set the function with an external switch.

Since the meter comes with a stick temperature sensor, you can detect oil temperature with the adding SP Takegawa magnet drain bolt.

Note:Super Multi TFT Meter ZIN

Do not use LED, H. I.D. headlights or fog lamps kit made by other than our companies at the same time. Some ballast / inverter (voltage converter) generates high-voltage noise that adversely affects the digital circuit, resulting in product failure or malfunction.

Note: setting the gear position

To set the gear position, both the speed signal and the engine speed signal must be input to the Super Multi DN meter. Therefore, it is require to learn gear display by chassis dynamo, free roller or actual driving. We recommend learning gear display by chassis dynamo or free rollers for safety reasons. Do not learn gear display on driving in the city because there are many traffic lights and traffic in the city. When performing in actual driving, select a safe place with good visibility and check the surroundings.

Caution When the handling of ignoring this display, property damage and human shows the assumption of what injury.

When performing the work, etc., be sure during the cold (when the engine and the muffler is cold). (It may cause burns.)

- When performing the work, it should be made to prepare the tools for the job. (Breakage of parts, it may cause injury.) ■ Do the work must always specified torque using a torque wrench. (Damage of bolts and nuts, and cause of dropout.)
- The product and the frame, might have edges or protrusions. When working, please wear work gloves to protect your hands. (It may cause injury.) Be sure to each part inspection before operation, check the loosening of the threaded portion, be sure to securely tighten the
- specified torque if there is loose. (It may cause detachment of the parts.)

When the handling of ignoring this display people died, shows the contents of the serious injury possibility is Warning assumed

During operation, when an abnormality occurs, immediately stop the vehicle in a safe place, please stop running. (It may lead to an accident.) ■ When performing the work, do the work safely stabilize the vehicle in a horizontal location.

- (There is a risk of injury vehicle collapsed while working.)
- Inspection, maintenance, the instruction manual or, inspection methods such as service manuals, to protect the way, should be done correctly. (unsuitable inspection and maintenance, there is a risk that result to an accident.)
- When carrying out the inspection and maintenance, etc., if found damaged parts, replace the damaged parts to avoid possible to reuse the parts. (There is a risk that lead to accidents Continued use.)
- Plastic bags of product packaging, you can either be stored in a place that is out of reach of children, it should be discarded. (When the children or wearing, there is a risk of suffocation.)
- Do not operate the switch while driving. (It may lead to an accident.)
- On Monkey 125, changed from stock sprocket teeth, an error will occur in the display of the genuine speedometer. (Will show error code.) Also, the ABS warning light will light up and ABS will not work. To fix these problems, a vehicle speed signal correction unit is required. We do not sell vehicle speed signal correction units.
- ◎ Please note. Performance up, the design change, the product and the price in the cost up, etc. are subject to change without notice. ◎ Please be informed that we shall be held harmless against any claim against us whatsoever arising out of use of the products in racing and the like
- © Keep this manual stored until this product is discarded.









SPECIAL PARTS



■ Basic wiring diagram often found on mini bikes, etc. Par	Power wiring ts and connecting wire colors	differ depending on t	the models.
DC12V Connect to power supply Connect the black y	wire of the main wiring to t	he "key ON" (DC 12	V) wiring".
Main	tch etc. The "key ON" power supply branched into several wir	OFF OFF (accessory) is ings.	21
금· ————————————————————————————————————	<u> </u>		
The meter turns on when the key is turned on (engine stopped).	Standard w % Wiring color Manufacturer HONDA YAMAHA SUZUKI KAWASAKI	viring color may vary depending on moo Key ON power color Black Red / Black Brown Orange Brown	del. Ground wire color Green Black Black / White Black / Yellow
※The mini-regulator cannot be installed with this meter.			
<pre>(What is DC power supply?) = DC power supply. Battery power source, voltage is relat is running. Voltage is around 12.5~13V when the key is on ※ AC power, type of vehicles uses more power/voltage when (Connection precautions) If the power does not turn (with the key ON), is battery battery, it will not only cause overvoltage at high speed excessive load. (Note) With the engine off, turn on the brake lights and turn si</pre>	tively stable from the key is t a, and around 12.5 ~ 14.5V while the engine starts (mostly in deterioration or incorrect wir s, but also cause the genuine gnals. If the blinking speed is ndicator lamp wiring	turned on (engine sto e running (general us headlights and taill ing. Use a completely regulator to malfunct s abnormal, the batte	pped) to the engine sage) ights). y deteriorated tion due to ery is weak.
Parts and connecting wire colors differ depending on the mod please understand the purpose of each wire on the meter and ■ The wiring method (may be different depending on the mod	odels. carefully check the genuine wi el).	ring diagram to conne	ect the wires correctly.
▲ ■ Warning light Red LED (lights up with negati	ve connection) use as water	temperature warning	g light, etc.
■ Engine warning light Yellow LED (lights up w light, etc.	ith negative connection) use	e it for engine cheo	ck light, FI warning
■ ABS lamp Yellow LED (lights up with negative	e connection) Use for ABS mod	lels.	
■ Warning light Red LED (lights up with negati	ve connection) You can use i	t by specifying the	e warning function.

Indicator lamp wiring	
Basic wiring diagram often found on mini bikes, etc. Parts and connecting wire colors differ depending on the models. please understand the purpose of each wire on the meter and carefully check the genuine wiring diagram to connect the w Reference example for lighting an LED, the wiring method (may be different depending on the model).	wires correctly.
	<u> </u>
N Neutral lamp Green LED (lights up with negative connection) Connect the green/red wire to the conductive to ground when gear in neutral.	
Neutral switch	
Bin Power → III Standard wiring color may vary Wapufacturer	olor depending on model. wiring color
	ght Green / Red
Neutral lamp	Light Blue
	Blue / Black
	Light dieen
Oil warning light Red LED (Lights up with either positive or negative connection) There is a slight time lag between sensing the signal from the sensor and the indicator turning on an	nd off.
■ Example of use as an oil warning light (positive connection) YAMAHA 2-stroke scooters, etc. (wiring color: gray) Connect the gray wire to the warning wire +12V(when conductive).	
©il level sensor	
Gray	
0il warning light C >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
(Light bulb) $\overline{e} = \frac{\overline{e} \cdot \overline{s}}{\overline{s}} + 12V$ Brown/Red $\overline{e} = \overline{s} - \frac{\overline{e} \cdot \overline{s}}{\overline{s}} + 12V$	
■ Example of use as an oil warning light (negative connection) Most common Connect the gray wire to ground wire warning(when conductive).	
Σ ⊐ 0il level sensor	
لَّةُ <u>Power</u> وَعَلَّي Power → وَعَلَّي اللَّهُ aray وَ التَّاتُ اللَّهُ aray وَ التَّاتُ اللَّهُ اللَّهُ aray وَ التَّاتُ اللَّهُ aray وَ التَّ	color
When floating : OFF XWiring color may vary When the float Manufacturer	depending on model. wiring color
is lowered : ON HONDA	Green / Red
$(i \text{ ight hulb}) = \frac{\alpha}{2} \frac{\beta}{2} + 12V \qquad \text{No connection } X = \frac{\alpha}{2} \frac{\beta}{2} + 12V \qquad \text{YAMAHA}$	Black / Red
	Black / Red
High beam indicator Blue LED (lights up with positive connection) Please also connect the yellow wire to the high beam wiring.	
High beam + 12V Low beam + 12V	
X Negative voltage(only) headlights model can NOT be used high beam indicator.	
Unusable also Honda injection models such as Monkey (FI) and Ape (FI) .	
(The headlights will turn on when the engine starts.)	
➡ Turn signal indicator Green LED(lights up with positive connection) Please insert each wire into the turn signal (positive). Orange: Left turn signal Blue: Right turn signal	mal
► Power	
Turn signal relay	
Left turn signal Turn signal switch Standard wiring color may yarv de	or epending on model
	color reference
	ge Light Blue
≧. United turn signal / Internet biological / Internet biologic	ck Light Green
Bilue → Power / KAWASAKI Gree	en Gray
(Example: Ape(battery-less),XR100M etc.) ※ The indicators may not work properly on AC models.	

Please refe	r to the meter instruction manual.		
	RPM signa	l input	t
 Do not use Increasing the Modifications to (non-resistance Deterioration Be careful about 	the aftermarket parts that may have a negative effect. spark also ignition noise accordingly. ignition coils,plug cords, plug caps,racing plugs type),aftermarket CDIs,etc.may have a major negative effects. of ignition system parts also contributes to increased ignition noise. It deterioration and wetting on the surface of the plug cord.	2. Please There are ma Try the reco Find the lo range where	perform wiring work with care about these condition. many ways to pick up the signal. commended methods in this order. lowest negative effects as possible (low signal voltage, low noise) within the e the tachometer operates normally.
Please set the RPM signal number setting RPM signal type setting:	e connection, RPM signal frequency, and type by the models. Setting of the number of signals per crankshaft rotation. When the settings not match, the display shows exactly half, double, Chose the type of loading program that matches your connection met By switching, the same connection method may work properly.	triple, etc. hod.	<pre>[A connection] [B connection] [C connection] RPM 信号入力 (3 types) ※ For details of connection method, please see the following pages. [A connection] Plug cord surface (See P24) [B connection] Ignition coil primary side (See P24) [C connection] Loading the pickup pulse (See P25) The connection method may varies depending on the ignition type of the motorcycle.</pre>
How to find ign	ition types	1	t contain conditions
There are 3 ty	pe of Ignition system. Note:Point type ignition system are not	compatible	e with this product. Δ : May be different
C.D.I.ignitio	n Common in non-battery model and small size carbureto	or model.	For ignition For lights and instrument
Basic system How to find	There is an ignition coil in the stator, and the power is ★ DC12V power supply (key ON) is not connected to CDI ★ There is an ignition coil in the stator (right wiring △ Most flywheels have only one protrusion.	s stored in diagram)	I the CDI and ignited. Ignition coil is wrapped with extremely thin copper wiring of about 0.1 mm, and the outer is often protected with a heat- resistant sheet.Lighting coils
12V Monkey/Ape,	both carburetor type.		Wiring diagram are wrapped with copper wiring of about 0.8 to 1 mm.
DC-C.D.I.igni	tion method Common in older carburetor models.		★ : certain conditions △ : May be different
Basic system	The raised battery power to a high voltage using a boost Commonly known as "battery ignition" ★ DC12V power is connected to CDI ★ There is no ignition coil in the stater (right wiring d	circuit and	Id ignited.
Connection met	△ Most flywheels have only one protrusion.	l agi alli/	
KSR110 · CYGNUS-	X(carburetor type) • AddressV125(GK7).etc		wiring diagram
Transistor ig Basic system How to find	nition system Common in injection models and mid to bi Transistor controls the supply of battery power to the ig ★ DC12V power supply is connected to the ignition coil. ★ There is no ignition coil in the stator (right wiring d A There are often multiple flywheels protrusions	g carburet mition coil iagram)	tor models. 1 and ignites it.
Connection met	hod [B connection] [C connection]		₩iring diagram
GROM • Monkey12	5 • CT125 • Monkey (F1) • Ape (F1) • CYGNUS-X (F1) • AddressV125 (GK9).etc	

RPM signal input
RPM signal input C. D. I. ignition DC-C. D. I. ignition method Please see the previous page for how to find type of ignition systems
[A connection] [A connection]
Vahicle side $cord = [4]$ Brown $Part Part RPM wiring A (1) \sim (4) (2)$
RPM signal number setting : Basically 1 or 2
RPM signal type setting: Basically Hi, if unstable, try Lo
Small () Attach the wiring on the near frame or body panel, it will be read by the antenna. ↑ ② Attach the wiring about 20mm along the surface of the ignition coil and secure it with a tie wrap, etc.
Signal strength ③ Align about 20mm to 30mm along the plug cord and secure with a tie wrap, etc. Note:longer the length, the stronger the signal.
Large ④ Wrap it around the plug cord and pick up the signal with the electricity generated. Note: more you wrap stronger the signal.
In most cases, wrap it around 3 times by method ④ can be read correctly.
Troubleshooting ■ The needle moves stable, but it indicates lower or higher than the actual value.
→The "RPM signal count setting" may not be correct. Note: If it doesn't match, it will indicate exactly double or half the value. The needle does not go up at all, or the goes down at high speeds. → Try ways to make the signal stronger.
Ine needle value that is higher than the actual value ine needle swings away. \rightarrow iry to weaken the signal(signals too strong) \otimes Note:Adjustments are unlikely to introduce subtle numerical errors. It is clear whether values can be displayed or not.
Temporarily secure RPM wiring A with insulating tape,etc.,and check operation by rev the engine lightly. A Warning Do not test ride with attached the RPM wiring temporarily.
■ RPM signal input by [A connection] ③ or ④, please wrap heat shrink tube (sold separately) to complete the process. • Remove the plug cap from the plug cord
• Wrap heat shrink tube over RPM wiring A and shrink by hair dryer etc. (Shrinkage temperature: 90°C or higher, shrinks to approximately 50% of the inner diameter)
•Please securely secure the RPM wiring with a zip-tie not to fall. •Finally, firmly attach the plug cap.
Attach S
Heat shrink tube ¢ 12X50 (Sold separately) 3pcs. Item number:00-00-2809
RPM signal input C.D.I. ignition DC-C.D.I. ignition method Transistor ignition system rease see the previous page for to find type of ignition systems.
C. D. I. ignition [B connection]
Please switch the RPM signal setting of the main unit $I_{\text{main coil}}$
before checking the operation.
RPM signal type setting: Set Hi, (try Lo if unstable) (The bolt of the coil also works as body ground
DC-C.D.I. ignition method [B connection] Some models cannot be use
Vahicle side =[4] Brown
before checking the operation.
RPM signal number setting : Basically 0.5 or 1 or 2 RPM signal type setting : Set Lo, (try Hi if unstable) (The bolt of the coil also works as body ground
Transistor ignition system [B connection]
Vanicle side =[4] Brown
Please switch the RPM signal setting of the main unit before checking the operation.
RPM signal number setting:Basically 0.5 or 1 RPM signal type setting:Hi Some models cannot be use
Troubleshooting
■ The needle moves stable, but it indicates lower or higher than the actual value. → The "RPM signal count setting" may not be correct. Note: If it doesn't match, it will indicate exactly double or half the value. ■ The meedles doesn't are up at all Places check whother the "CPM signal time, cotting" is correct.
■ The needle souces it go up at all. → rivelase check whether the Krm signal type setting is correct. ■ The needle points higher than the actual value. The needle swings away. → Please check whether the "RPM signal type setting" is correct. ※ Note: Adjustments are unlikely to introduce subtle numerical errors. It is clear whether normal values can be displayed or not
■ Tachometer needle jumps. → RPM wiring B is touching the ignition coil .

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		RPM	lsignal inpu	ıt			
RPM signal in	put C.D.I.i	gnition DC-C.D	.I.ignition meth	od Tra	ansistor ignition system Please	e see the previous page for how	
[C connection Wiring method	Prior to conect, please check whether the number of protrusions on the outer the flywheel is within the setting range of the meter. Setting range : 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 9, 10, 11, 12, 17, 18, 23, 24						
	[C connection]						
	Vahicle side cord = [4] Brown = [9] = 110 Modifying RPM wiring A code						
	Number of protrusions on the outer flywheel is within the set range. (compatible with uneven spacing)						
	Please	switch the RPM si	gnal setting of	the mai	n unit 🏼 💭 р 🏘	Pulse Generator (Pickup coil)	
	before checking the operation. RPM signal number setting: Set the number of protrusions. RPM signal type setting: Set Lo, (try Hi if unstable)						
	Example:F	RPM signal frequenc	y setting				
	\bigcirc	RPM signal num setting:1 Short type	nber	RPM sett Long	signal number ing : 1 type	PM signal number etting:9 unt the number of pieces	
Tr •	oubleshooting The needle is stab → "RPM signal sett The needle doesn't	le, but it indicates ing may not be corre go up at all. \rightarrow Plea	a value that is low ect.Note:If doesn't ase check the "RPM s	er or hig match, it ignal typ	her than the actual value. will indicate exactly double or hal e setting″ is correct.	f the value.	
•	The needle indicat	es higher than the ac	ctual value.Or needl	e swings	away. \rightarrow Please check the "RPM signal	type setting" is correct.	
Re	ference informa	tion Common quest	ions. ※ This inform	ation is	advice and does not dictate how you	connect.	
V	ehicle name	Engine specs	Ignition		Connection	Meter setting	
1	2V Monkey	Carburetor	C. D. I.		A connection(A-④3 Roll)	1 – Hi	
1	2V Gorilla	Carburetor	C. D. I.	Common	B connection(Black/Yellow code)	1 – Hi	
A	pe50/100 (P50/100 Motard	Carburetor	C. D. I.	for all	C connection(Blue/Yellow code)	1 – Hi	
Ľ			JO. D. 1.				
V	'ehicle name	Engine specs	Ignition		Connection	Meter setting	
Μ	lonkey (FI)	Injection	Full transistor]	Not available for A connection		
A	pe50 (FI)	Injection	Full transistor]	Not available for A connection		
G	ROM × 1	Injection	Full transistor	Common	mon all B connection (Pink/Blue code)	0.5 - Hi	
M	onkey125	Injection	Full transistor	for all			
	npe50 TYPF D	Injection	Full transistor		C connection (Blue/Yellow code)	9 - Lo	
¥	 When using a si "B connections" s dehicle name 	ub-wiring for GROM,th pecified in the table Engine specs	e pulse line inside are only available Ignition	and the s when usin Connect	setting is "2 - Hi" g the general-purpose sub wiring. ion	Meter setting	
К	SR110	Carburetor	DC-CD I	C conne	ction(Blue/Yellow code)	1 - Hi	
C	YGNUS-X (FI)	Injection	Full transistor	B connection(Red code)		0.5 - Hi	
A	ddress V125 GK7	Injection	ction DC-CDI A connection (A-@3 Roll)		0.5 - Hi		
A	ddress V125 GK9	Injection	Full transistor	B connection (Blue code)		0.5 – Hi	
If the meter is malfunctio	ning, please r	efer to the tro	ubleshooting se	ection i	in the meter's manual.		

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