

❖ **IMAGE**



❖ **INTRODUCTION**

- Nowadays technology products are more and more intelligent, modern, especially more friendly to workers, updating new technology of industry 4.0 "integrating things, integrating knowledge, integrating data"
- You are a young generation repairman and have good financial conditions? Do you like to explore and conquer high-end technology? Do you like modern and trendy styles?
- Now your motorcycle repair tools is not only boring hand-held device that it need nice & friendly graphical interface, multi-language, multi-functional, integrating everything in one, voice communication, wireless data connection, global database connection, simple update & sync, trendy "touch screen" control
- DTDAuto would like to introduce a high-end product that analyzes and determines faults of electronic fuel injection motorcycles: MOTOSCAN TAB

- **MOTOSCAN TAB** researched and manufactured by DTDAuto Vietnam. It used to determine fault and repair electronic & electrical system for most motorbikes and scooters in Asia market and some other market with electronic control system for starting, fuel injection, ignition, ABS, Smart key, ODO, ECU...

Product is designed compactly and integrated all functions "all in one". It connect wireless with vehicle via Bluetooth communication and used for **diagnosing fault, repair fault for Engine & ABS system; automatic programming smart key system; automatic test ECU inside, automatic engine technical analyzing, intelligent diagnosing without OBD fault code, ODO value correction, ECU signal simulating, programming and upgrading standard software of manufacturer inside ECM, SCU...** and many special measurement functions, full-featured for professional motorbike repair workshop. The device is suitable for repairers who like Multi-Media technology, good quality graphics display, abundant lookup, and multimedia connectivity.

- Lookup repair data fast, convenient, smart and object-oriented for most motorcycles of HONDA, YAMAHA, SUZUKI, SYM, KYMCO, PIAGGIO / VESPA manufacturers.
- A gift MOTODATA software used to lookup motorbikes repair data on computer or mobile for 01 year when buy MOTOSCAN TAB.

❖ PRODUCT PACKAGE SELECTION & PRICE

MOTOSCAN TAB PRICE WITH PAYMENT OF ANNUAL USE FEE (\$65/ 01 year, the time finish renewal within 7 years)			
PACKAGE OPTION	DESCRIPTION	PRICE (USD)	ANNUAL USE FEE (USD)
SELECTION 1 Product code: MT008A	Customers already have a tablets with 10.1 inch use Android OS (Price does not include tablets)	\$590.00	\$65.00/ year
SELECTION 2 Product code: MT008B	Customers buy with Huawei Tablet 10.1 inch Processing speed and color display better (Model: Huawei MediaPad T5 AGS2 W09 / L09 / L03 / W19 10.1)	\$825.00	
SELECTION 3 Product code: MT008C	Customers buy with Samsung Tablet 10.1 inch Fast, smooth processing speed, beautiful color display (Model: Samsung Tab A8)	\$945.00	
Note: Tablet prices are based on market prices at the time customers buy them, DTDAuto encourages customers to buy tablets themselves to take the initiative in product warranty			
MOTOSCAN TAB PRICE WITH 1 TIME PAYMENT OPTION			
PACKAGE OPTION	DESCRIPTION	PRICE (USD)	ANNUAL USE FEE (USD)
SELECTION 1 Product code: MT008D	Customers already have a tablets with 10.1 inch use Android OS (Price does not include tablets))	\$850.00	Customers needn't to pay annual use fee
SELECTION 2 Product code: MT008E	Customers buy with Huawei Tablet 10.1 inch Processing speed and color display better (Model: Huawei MediaPad T5 AGS2 W09 / L09 / L03 / W19 10.1)	\$1,085.00	
SELECTION 3 Product code: MT008F	Customers buy with Samsung Tablet 10.1 inch Fast, smooth processing speed, beautiful color display (Model: Samsung Tab A8)	\$1,210.00	
Note: Tablet prices are based on market prices at the time customers buy them, DTDAuto encourages customers to buy tablets themselves to take the initiative in product warranty			
MINIMUM CONFIGURATION INFORMATION WHEN CUSTOMERS BUY TABLETS FOR MOTOSCAN TAB			
- Tablets of manufacturers: Samsung, Lenovo, Huawei, Xiaomi, Nokia, Coolpad, Masstel.			

Operating system: Android.

(Currently, MOTOSCAN TAB software does not support the iOS operating system)

- Operating system: Android 5.0 and up
- Screen size: 10.1 inches or larger
- Screen resolution: 1280 x 800 Pixels or higher (HD standard)

If you buy low quality tablets, the price is too cheap, small size, too low resolution and speed will not work with MOTOSCAN TAB and there is no way to fix it.

(Customers who purchase tablets from DTDAuto will have an protective case. If you buy the device yourself, you can also find these protective cases at accessory stores)

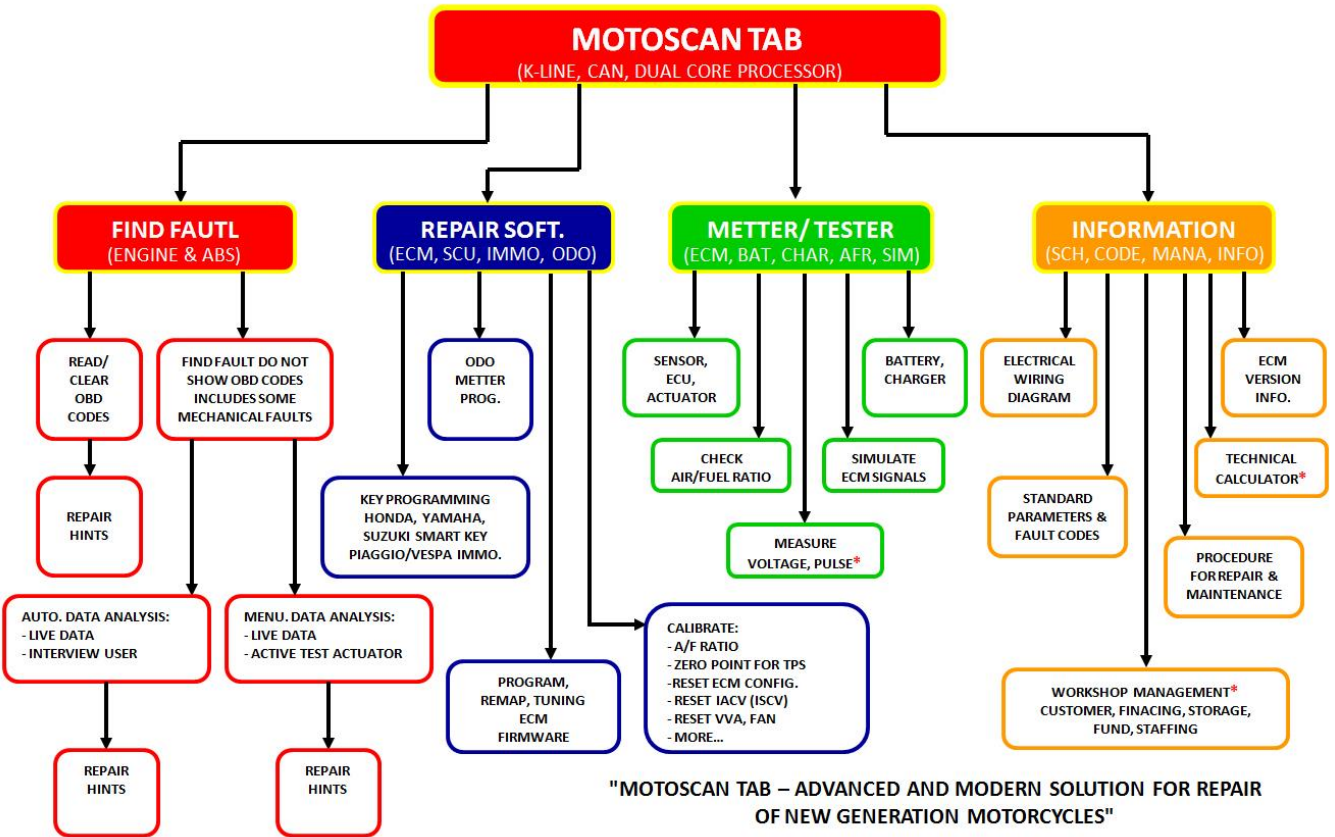
**ADVANCED CABLE OPTION
FOR ECU, SENSOR & ACTUATOR TEST FUNCTION**

OPTIONS	DESCRIPTION	PRICE (USD)
CABLE OPTION FOR ECU TEST FUNCTION	HONDA PACK 1 (for 02 motorcycles) Used to check ECU for LEAD 2009–2011 (ECU code: 38770-GGE-901), SCR 110 (ECU code: 38770-GFM-902)	\$45.00
	HONDA PACK 2 (for 03 motorcycles) Used to check ECU for LEAD 2012 (ECU code: 38770-GGE-941), AIR BLADE 2008 – 2010 (ECU code: 38770-KVG-V21), WINNER 2015-2018 (ECU code: 38770-K56-V01)	\$45.00
	HONDA PACK 3 (for 02 motorcycles) Used to check ECU for AIR BLADE 2011 – 2012 (ECU code: 38770-KVG-V41), VISION 2011-2012 (ECU code: 38770-KZL-E71)	\$45.00
	HONDA PACK 4 (for 04 motorcycles) Used to check ECU for FUTURE 125 (ECU code: 38770-KYZ-V21), WAVE RSX, WAVE 110, WAVE 125 (ECU code: 38770-K03-M01)	\$45.00
	HONDA PACK 5 (for 02 motorcycles) Used to check ECU for WAVE 110 RSX AT, WAVE 110 AT (ECU code: 38770-KWZ-841)	\$45.00
	HONDA PACK 6 (for 02 motorcycles) Used to check ECU for FUTURE NEO, FUTURE X (ECU code: 38770-KVL-932)	\$45.00
	HONDA PACK 12A - HONDA (SH150i-PS) (for 02 motorcycles) Used to check ECU for SH 125i/150i (2008-2012), PS (2008-2012)	\$16.00
	HONDA PACK 12B - HONDA (SH150i-PS) (for 02 motorcycles) Used to check ECU for SH 125i/150i (2008-2012), PS (2008-2012)	\$45.00
	HONDA PACK 13 - HONDA ACG ECM (for 17 motorcycles) Used to check ACG ECU for AIR BLADE 2013-2014, AIR BLADE	\$220.00

ADVANCED CABLE OPTION FOR ECU, SENSOR & ACTUATOR TEST FUNCTION		
OPTIONS	DESCRIPTION	PRICE (USD)
	2015-2017, AIR BLADE 2018-2019, SH MODE 2013-2014, LEAD 2013-2014, LEAD 2015-2017, LEAD 2018-2019, SH MODE 2015-2017, SH MODE 2018-2019, SH 2015-2016, SH 2017-2019, PCX 2015-2017, PCX 2018-2020, VARIO125/150 2014-2017, VISION 2013-2015, VISION 2016-2017, VISION 2018-2020 (will continue to update for another vehicle)	
	YAMAHA PACK 7 (for 02 motorcycles) Used to check ECU for NOUVO SX (ECU code: 1DB-H591A-002XC-H591A-00), SIRIUS 2016 (ECU code: 1FC-H591A-11)	\$45.00
	YAMAHA PACK 8 (for 01 motorcycles) Used to check ECU for EXCITER 2018 (ECU code: 2ND-H591A-00)	\$45.00
	YAMAHA PACK 9 (for 01 motorcycles) Used to check ECU for JUPITER FI (ECU code: 2VP-H591A-00)	\$45.00
	YAMAHA PACK 10 (for 01 motorcycles) Used to check ECU for EXCITER 2019 (ECU code: 2ND-H591A-20)	\$45.00
CABLE OPTION FOR CKP, IACV/ISCV TEST FUNCTION	CKP & IACV PACK 11 Used to check Hall CKP sensor and IACV/ ISCV for all HONDA, YAMAHA, PIAGGIO/ VESPA	\$45.00
<p>Notes: when buy the goods, customers can choice follow options and make total for payment. Example 1: MOTOSCAN TAB (Product code: MT008F) = \$1.185.00 = totals of payment Example 2: MOTOSCAN TAB (Product code: MT008F) + 03 add-in cables = \$1.185.00 + (\$45.00 X 3) = totals of payment</p>		

❖ **FUNCTION**

FUNCTION BLOCK DIAGRAM



A. FUNCTION 1: FIND MALFUNCTION

- 1. Read, clear fault codes stored in ECUs of engine system and ABS system**
- 2. Find complex faults that MIL lamp does not indicate include such as:**

- Diagnose faults by the automatic data analyzing and interviewing the technicians
 - + Can't start engine
 - + Down power when accelerate
 - + Idling stop fault
 - + Fuel consumption
 - + Starter is not work
 - + Random acceleration
 - + Constant acceleration
 - + Idling not work *
 - + Hard to start engine *
 - + Weak engine
 - + Injector mechanical fault
 - + Dirty Air filter*
 - + Exhaust pipe block*
 - + Air hole dirty/block of MAP sensor/Throttle*
 - + Intake manifold leak*

Note: The functions with an asterisk (*) may be research & update in future

- Diagnose faults by analyzing the engine live data and activate the actuators
 - + Voltage and open angle of throttle position sensor (TPS)
 - + Voltage and value of intake air temperature sensor (IAT)
 - + Voltage and value of manifold air pressure sensor (MAP)
 - + Voltage and value of engine temperature sensor (ECT)
 - + Voltage and value of oxygen sensor (O2S)
 - + Value of atmospheric pressure sensor
 - + Engine speed (CKP/ NE)

- + Vehicle speed (VSS)
 - + Front/rear wheel speed (with ABS system)
 - + Status of fuel pump
 - + Ignition timing advance (ISA)
 - + Fuel injection time (Ti)
 - + Starter signal (STP)
 - + Status signal of side stand switch (SSTAND-SW)
 - + Status Hall sensor
 - + Evaporative purge cut solenoid valve output signal (PCS)
 - + Output signal active starter relay (ON/OFF)
 - + Output signal active PCV
 - + Output signal active IACV
 - + Output signal active MIL
 - + SCS input signal status (service check signal)
 - + Open state of step motor (IACV)
 - + State of heater of O2 sensor
 - + State of brake switch
 - + State of Start & Stop indicate lamp
 - + State of Start & Stop mode button
 - + State of start button
 - + State of pre-positioning
 - + Status of direction sensor
 - + Status of oil minimum pressure sensor
 - + Engine stop command from DSP
 - + Battery voltage (BATT)
 - + Battery current
 - + Short term fuel trim in closed loop
 - + Environmental revision coefficient in closed loop
 - + Fault code and total fault codes
 - + And other parameters vv...
- Activate and reset the actuators: Fuel pump, injector, ignition coil, IACV (ISCV), O2 heater, pump, blower, head lamp, MIL warning lamp, ABS warning lamp, Immobilizer lamp, Start & Stop lamp, engine oil pressure warning lamp, VVA valve, reset pre-positioning of crankshaft ...

B. FUNCTION 2: REPAIR FAULT

1. Automatically program smart key for HONDA, YAMAHA, SUZUKI:

- Read all KEYID# and ECMID from vehicle SCU
- Program smart key directly with vehicle or without vehicle (SCU is not installed on vehicle) for cases:
 - + Register more FOB# for all of cases
 - + Register FOB# when lost all of the FOB#
 - + Delete KEYID in SCU memory
 - + Synchronize SCU & ECM for all of cases
 - + Inactivate FOB# code in SCU when lost FOB#
 - + Check FOB# & SCU
 - + Display status of KEY (ON/OFF)
 - + Display SCU information
- Restore SCU data from sample data for HONDA (this function used to repair software inside SCU when SCU data is fault)
- Copy data from source SCU to destination SCU for all motorbikes that have Smart key system: HONDA, YAMAHA, SUZUKI (This function used to repair, swap SCU when have SCU hardware/software fault)
- Quick sync SCU & ECM (without FOB) for HONDA: SH, PCX, X-ADV... and equivalent vehicles List of vehicle as below (include other models which use similar ECMS):
- **HONDA:** SH 125/150/125D/150D/SM, SH 300i ABS, PCX, SH MODE , LEAD, AIR BLADE, VISION, ADV, X-ADV, FORZA, SUPER CUB, SCOOPY ESP, CLICK, VARIO
- **YAMAHA:** JANUS 125, EXCITER 155 VVA, GRANDE, NVX 125, NVX 155 Camo, NVX 155 ABS,

AEROX, LEXI S, NMX, NMAX, SMAX, XMAX, TMAX, QBIX 125, QBIX 125 S, QBIX 125 ABS
- **SUZUKI:** GSX R150

2. Programming key immobilizer and get out immobilizer ID code for PIAGGIO/VESPA (it also support GILERA, APRILIA, DERBI, PEUGEOT, which use similar ECMs) that ECM types: ACII, AC2I, AC5I, AC8I, AC13I, AC13I, AC191, AC19I, AC20I, AC21I, AC23I, AC24I, AC25I, AC27I, AC32I, AC5I, AC8I, ACI600, AC601, ACI602, ACI603, ACI604, ACI605, ACI606, ACII, MIU1, MIU2, MIU G3/RIU1, MIU4, PGN04/PGS02/PGR04/PGS05/PGS06/PGT01

Reset immobilizer, register new key when lost all of the keys, register additional keys ... by many methods (KEY to IMMO. or IMMO. to KEY)

3. Correct and adjust value of digital odometer

- **HONDA:** AIR BLADE (2013-2019), AIR BLADE (2020-2022), CB150R (2017-2019), CB300R (2017-2019), CB650R, CBR250, CBR650R, CB650F, CBR650F, CB500X, CBR500R, CB500F, CBR 50RR (2019-2021), CBR150R (2019-2021), FUTURE NEO Fi, FUTURE X Fi, LEAD (2013-2019), LEAD 2020, PCX (2008-2013), PCX (2014-2017), PCX 2018, PCX HYBRID, SH 300i, SH MODE (2013-2019), SH 125/150/125D/150D/SM (2013-2017), SH 125/150/125D/150D/SM (2018-2019), SH 125/150/125D/150D/SM (2020), SCOOPY-I, SCOOPY 2021, SUPER CUP 125 (2021-2021), MSX, GENIO (2019-2021), VISION 2021, VARIO 150, WINNER, WINNER X, X-ADV, DYLAN, ZOOMER X (2013-2017), ZOOMER X (2018-2020), SONIC, WAVE 125 (Thailand), CLICK (2012-2014), CLICK (2014-2017) CLICK (2018-2020), VARIO (2014-2017), VARIO (2018-2020)

- **YAMAHA:** ACRUZO , AEROX, LEXI S, LATTE, FREGO, NVX, NMAX, NMX, M-SLAZ (2016-2019), MT-03 (2015-2019), MT-25 (2015-2019), JANUS, TFX, EXCITER (2014-2018), EXCITER (2019-2020), EXCITER 155 VVA, FZ 150, FZ 150i, GRANDE, NOUVO SX, NOUVO LX, YZF-R3 (2014-2018), YZF-R25 (2014-2018), R15, X-MAX 300 (2017-2018), TMAX

- **PIAGGIO:** MEDLEY 125, MEDLEY 150, MEDLEY 125 ABS, MEDLEY 150 ABS, LIBERTY ABS, LIBERTY 125 3V PGN04, LIBERTY 150 3V PGN04, LIBERTY 125 3V PGT01, LIBERTY 150 3V PGT01, LIBERTY 125 3V PGS02/PGR04/PGS05/PGS06, LIBERTY 150 3V, PGS02/PGR04/PGS05/PGS06, LIBERTY ABS PGS06

- **VESPA:** PRIMAVE 125 PGN04, PRIMAVE 150 PGN04, SPRINT 125 3V PGN04, SPRINT 150 3V PGN04, SPRINT 125 3V PGT01, SPRINT 150 3V PGT01, SPRINT 125 3V PGS02/PGR04/PGS05/PGS06, SPRINT 150 3V PGS02/PGR04/PGS05/PGS06

Edit, decode data, convert information automatically in EEPROM

4. Reprogram and upgrade ECM firmware, remap/ tuning ECM, and adjust the A/F ratio

- Reprogram and upgrade ECM firmware for:

+ **HONDA:** AIR BLADE 110, AIR BLADE 125/150, DREAM 110i, FUTURE X FI, FUTURE 125 FI, SH 125/150, SONIC 150, WINNER 150, WINNER X, FUTURE X 2019, FUTURE 2014 -2017, LEAD 110, LEAD 125, PCX (2015-2019), MSX, MONKEY 125i, PS, SCR 110, SCOOPY-I, SONIC 150, SH 125i/150i (Italia), SH 125/150 ESP, SH 300I, SH MODE, SUPER CUB 50 2019, SUPRA, WAVE 125, WAVE 125-i (Thailand), CLICK, VARIO, VISION 110, SCR 110, WAVE 100i, WAVE 125/ 125i, WAVE RSX FI, WINNER 150, WINNER X...

+ **PIAGGIO/VESPA** (it also supports GILERA, APRILIA, DERBI, PEUGEOT, which use similar ECMs): ECM types are AC19I/AC20I/AC24I/AC25I/ AC27I/AC32I, MIU G3/RIU1 and ECM PGN04/PGS02/PGR04/PGS05/PGS06/PGT01

- Calibrate air/fuel ratio (AFR) for YAMAHA, PIAGGIO/VESPA (it also supports GILERA, APRILIA, DERBI, PEUGEOT, which use similar ECMs), SYM, KYMCO

- Calibrate air/fuel ratio (AFR) for HONDA by ECM remapping & tuning. Write data to ECM by option user self for:

HONDA: AIR BLADE 110, AIR BLADE 125/150, DREAM 110i, FUTURE X FI, FUTURE 125 FI, SH 125/150, SONIC 150, WINNER 150, WINNER X, FUTURE 2014 -2017, FUTURE X 2019, PCX (2015-2019), LEAD 110, LEAD 125, MSX, MONKEY 125i, PS, SCR 110, SCOOPY-I, SONIC 150, SH 125i/150i (Italia), SH 125/150 ESP, SH 300I, SH MODE, SUPER CUB 50 2019, SUPRA, WAVE 125, WAVE 125-i (Thailand), CLICK, VARIO, VISION 110, SCR 110, WAVE 100i, WAVE

125/ 125i, WAVE RSX FI, WINNER 150, WINNER X

- Reset to manufacturer value of ECM: HONDA, YAMAHA, PIAGGIO/VESPA (it also supports GILERA, APRILIA, DERBI, PEUGEOT, which use similar ECMs)
- Offset zero point value and set range of throttle position sensor for PIAGGIO/VESPA (it also supports GILERA, APRILIA, DERBI, PEUGEOT, which use similar ECMs)
- Synch and control IACV for HONDA, YAMAHA, PIAGGIO/VESPA (it also supports GILERA, APRILIA, DERBI, PEUGEOT, which use similar ECMs), KYMCO
- Adjust pulse bandwidth to control fuel injectors (Ti) and idle speed: YAMAHA, SYM
- Create new and repair data errors, upgrade the version MCU, EEPROM
- Set altitude mode for some models of YAMAHA

5. Check hardware, software, operability, and quality of components inside ECM (ECU tester function) (this is optional)

Test quantity of ECMs for HONDA, YAMAHA, PIAGGIO/VESPA according to the order

List of vehicles as below (including other models which use similar ECMS) (list of vehicles will continue to update):

- **HONDA:** AIR BLADE 2008-2010, AIR BLADE 2011-2012, AIR BLADE (2013-2014), AIR BLADE (2015-2017), AIR BLADE (2018-2019), LEAD 110 (before 2012), LEAD 110 (2012), LEAD (2013-2014), LEAD (2015-2017), LEAD (2018-2019), SH 125/150 (2013-2014), SH 125/150 (2015-2016), SH 125/150 (2017-2019), PCX (2015-2017), PCX (2018-2019), VISION (2013-2017), VISION (2018-2020), VARIO (2014-2017), VISION 2011-2012, FUTURE X FI, FUTURE NEO FI, FUTURE 125 FI, WAVE 110i (Thailand), WAVE 125i (Thailand), WAVE RSX FI, WAVE RSX FI AT vv...
- **YAMAHA:** NOUVO SX , SIRIUS 2016, EXCITER 2018, JUPITER FI, EXCITER 2019

6. Check Hall CKP sensor and IACV/ ISCV (this is optional)

Use for all HONDA, YAMAHA, PIAGGIO/ VESPA motorbikes

7. Simulate Input/ Output signal of ECU to support diagnosing fault and repair ECU hardware

C. FUNCTION 3: SPECIALIZED MEASURE TOOL

- 3.1 Fast measure and assess capacity, quality of battery
- 3.2 Reviewed charging status and rated the quality of the generator, regulator
- 3.3 Measure the air/fuel ratio (A/F) to assess the instantaneous fuel consumption
- 3.4 Measure engine speed (RPM) for all carburetor and PGM-FI/FI with DIY ECU motorbikes

D. FUNCTION 4: LOOKUP REPAIR DATA

- 4.1 Look up the acronym, position of signal pins for systems: ECM, SCU, ACU, ODO, IMMO, SMART KEY
- 4.2 Look up electrical wiring diagram: principle diagram, schematic assembly and specified conditions
- 4.3 Look up the process assembly, repair, maintenance mechanic, oil warning lamp reset
- 4.4 Update software and data via Internet

❖ ADDRESS & APPLICATION RANGE

- The device is suitable for repairmen who like technology, do not like traditional, monotonous, classic and boring hand tools
- People like Muti-Media technology, Big data, IoT ... good graphics, impressive and multimedia connection
- A safety test device for motorcycle and private car clubs

❖ ADVANTAGE

- In-depth features, application range compatible most small motorbikes and scooters in Asia market
- A safe and convenient solution support CAN bus and K-Line protocol
- Simple operation with keypad direct on handhelds (without computer)
- Equipment has integrate compact, design beautiful, professional, high strength mechanics
- Effective, fast, accurate, reliable, detailed
- Lookup more detail information for repairs by the [MOTODATA](#)
- Technical support consultant directly from manufacturer by SMS thought the Skype, Yahoo, WhatsApp, Zalo, Email, Teamviewer
- Update via Internet
- 12 months warranty and maintenance as required
- Low price

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