

QUICK GUIDE

SMARTKEY PRO 7

PC MOTORBIKE SMART KEY PROFESSIONAL PROGRAMMER



1



I. INTRODUCTION

- **SMARTKEY PRO 7** is a smart key programmer for motorbikes. It has manufactured by DTDAuto Vietnam. A solution using MOTODATA software is installed on computer and connect directly with SCU via cables for HONDA, YAMAHA, SUZUKI manufacturers::

+ HONDA: LEAD 125 (2017-2021), AIR BLADE (2018-2021), VISION (2018-2021), CLICK 125i (2018-2021), VARIO 125/150 (2018-2021), SH 125/150/125D/150D/SM (2016-2021), FORZA, ADV, X-ADV, SH 300i ABS (2016-2017), PCX (2016-2021), SH MODE (2017-2020), SCOOPY (2018-2021), SUPER CUB 2021

+ **YAMAHA**: TMAX, XMAX, NMAX, SMAX, AEROX, GRANDE, LEXI, QBIX, JANUS Limited, JANUS Premium, FREEGO S, NVX 155 ABS, NVX Deluxe, NVX Doxou

+ **SUZUKI**: GSX-R150

- Low cost solution for users, easy to use





1.1 APPLICATION & FUNCTION

a. Program Smart key system for motorbikes

LIST	OF VEHICLE	FUNCTION
	LEAD 125 (2017-2021)	- Find KeyID# and ECMID directly from SCU
	AIR BLADE (2018-2021)	- Backup KeyID# and ECMID to computer when reading is successful
	SCOOPY (2018-2021)	registered SCU has full 04 KEYID Conv data from SCU (A) to SCU (B) when replace SCU
	CLICK 125i (2018-2021)	- Rescue SCU data to repair software from saved data or -sample data of similar SCU
	VARIO 125/150 (2018-2021)	- Edit data to perform advanced functions
HONDA	SH 125/150/ 125D/150D/ SM (2016-2021)	 Read KeyID# and ECMID directly from SCU Delete KEYID# in SCU when it has full 04 KEYIDs in memory
	SH 300i ABS (2016-2017)	- Deactivate and activate again FOB# when lost key to avoid lost vehicle
	SH MODE (2017-2020)	- Activate simultaneous use multiple key (FOB) for a vehicle
	РСХ	- Automatic synchronize SCU & ECM without FOB (SCU



	(2016-2021)	only)
	FORZA	- Copy KeyID# from SCU (A) to SCU (B) to activate one
	ADV	key (FOB) to use simultaneously for multiple vehicles
	X-ADV	- Copy data from SCU (A) to SCU (B) when replace other
	VISION	- Backup SCU data when reading is successful
	(2018-2021)	- Rescue SCU data to repair firmware from backup data
	SUPER CUB 2021	- Edit data to perform advanced functions
	AEROX	
	GRANDE	
	QBIX	- Read KeyID directly from SCU
	JANUS	- Delete KEYID# in SCU when it has full 06 KEYIDs in
	FREEGO S	memory
	NVX	- Copy data from SCU (A) to SCU (B) when replace SCU
	LEXI	- Backup SCU data when reading is successful
YAMAHA	SMAX	- Rescue SCU data to repair firmware from backup data
	NMAX	- Edit data to perform advanced functions
	XMAX	
	TMAX]



		 Read KeyID directly from SCU Delete KEYID# in SCU when it has full 06 KEYIDs in
SUZUKI	GSX-R150	 memory Copy data from SCU (A) to SCU (B) when replace SCU Backup SCU data when reading is successful Rescue SCU data to repair firmware from backup data Edit data to perform advanced functions

b. Look up repair data for motorbikes

- Lookup electrical wiring diagrams of systems
- Support automatic calculation feature for motorcycle electronics repairmen
- Lookup IC solder pin diagram for odometer correction by MOTOBOX
- Lookup smart key diagram to read KeyID for HONDA, YAMAHA motorcycles
- Lookup power pin diagram and signal pin of ECMs for PIAGGIO programming key
- Lookup ACU, SCU, ECM connector pin outs
- Lookup immobilizer diagram for PIAGGIO/ VESPA motorcycles
- Lookup repair procedure for smart key system
- Lookup oil indicator reset procedure
- Lookup the compression ratio of the engine combustion chamber
- Lookup cylinder pressure of engine
- Lookup current leakage and charging current
- Lookup ignition timing advance
- Look up wiring color code, acronym of electrical system
- Lookup fault codes and troubleshooting for engine system, ABS system and immobilizer system

- Lookup fault location on motorcycle and electrical system diagram
- Lookup fault location by fault code on electrical diagram

- Lookup ABS & Smart key system diagram for HONDA, YAMAHA, PIAGGIO (designed by DTDAuto)

- Lookup mechanical and electrical specifications
- Lookup location of components and signal pins: sensor, ECU, actuator vv...
- Lookup measurement procedure and checking, determine preliminary damage
- Guide mechanical removal/installation
- Maintenance process, online question and answer
- Free and automatically updated the newest version
- Manage vehicle information in workshop (License, brand, model, owner ...)
- Manage repair services, repair invoices and log of repaired vehicles
- Manage spare parts in stock, update data when purchase spare parts
- Manage finance, expenditure by date, month, year and report income
- Manage personnel, worker in the workshop, the amount of actual working days, day off...
- Remind periodic maintenance, oil changing



1.2 PACKAGE

NO.	DESCRIPTION	IMAGE
1	SMK-LV cable to connect SCU with computer Use for HONDA : LEAD 125 (2017-2021), AIR BLADE (2018-2021), SCOOPY (2018-2021), CLICK 125i (2018-2021), VARIO 125/150 (2018-2021), VISION (2018-2021), PCX 2021	
2	SMK-SP cable to connect SCU with computer Use for HONDA : SH 125/150/125D/150D/SM (2016-2021), SH 300i ABS, (2016-2017), FORZA, PCX 2016-2020, SH MODE (2017-2020), ADV, X-ADV, SUPER CUB 2021	
3	SMK-YS cable to connect SCU with computer Use for: YAMAHA : AEROX, GRANDE, QBIX, JANUS, FREEGO S, NVX, LEXI, SMAX, NMAX, XMAX, TMAX SUZUKI : GSX-R150	C C C C C C C C C C C C C C C C C C C
4	MOTODATA software on computer (Notes: requires a software renewal fee: 15\$/each year for next time)	
5	Quick guide	

1.3 IMPORTANT NOTES

- When you connect SMART KEY cable to computer, please wait for 15 seconds to computer identify COM port.

- When you change cable to read different SCU types you have to restart your computer so that the connection is successful

- Check that the wire and footprint soldering is correct according to the guide diagram.

- Good soldering contact, good connector, not wrong, short-circuit with other points electrical power of computers must be stable, not to let the computer power off, hang up, stop operating or restart during the read is processing.

- Do not place SCU on conductors or near spark sparking sources
- Turn off all other applications running in parallel on the computer and all antivirus software
- Absolutely do not use the mouse, keyboard or other operations with the computer while computer is reading data

- If the computer hangs during work, it must wait for more time.

- Please contact WhatsApp: +84913555416/ +84912216555, Gmail: <u>dtdauto@gmail.com</u> for assistance.

2. GUIDE INSTALL MOTODATA SOFTWARE

You need to prepare:

- Computer use Windows operating system (do not support for other operating systems) and have USB port

- The computer is connected to Internet and installed TeamViewer

- Open Teamviewer and send "Your ID" and "Password" to WhatsApp: +84913555416/ +84912216555 or Gmail: <u>dtdauto@gmail.com</u>

Notes: You should choose the PC stability and long-term use because MOTODATA is copyrighted software, installing to other computer will take a lot of time

3. USE MOTODATA FOR SMARTKEY PRO 7

Important note: You must choice cable type as item 1.2

3.1 READ KEYID# AND ECMID

Step 1: Open MOTODATA software on the desktop screen



Step 2: Select "LOOK UP" on main screen of MOTODATA

A MOTODATA 6.0.0	(Auto live update) - Te	echnical support (Ms Ha	ing): +84 19002228; Bi	usiness support (Ms La	n): + 84 19002228			
DTD	Autö		RENEW MO	TODATA IS 56 USD F	ODAT FOR 4 YEARS, BONUS	6 MONTHS FOR US	E!	Version: 6.0.0 SMK Update: 05/02/2020 Expiry date: 09/02/2020
VIDEO	LOOK UP	DOCUMENT	QUESTION		WORKSHOP	TRAINING	RELATED DOCUMENTS	

Step 3: Select model of HONDA manufacturer that you want to read KeyID and ECMID (Follow 1, 2, 3, 4 instructions as below)

A MOTODATA 5.2.0 (Auto live update) - Technical suppo	ort (Ms Hang): +84 19002228; Business support (Ms L	an): + 84 19002228	marrier San St	requirements, Names, Manual Street
DTDAutö	RENEW MOTODATA	IS 56 USD FOR 4 YEAR		HS FOR USE !
[] [] [] [] [] [] [] [] [] [] [] [] [] [NEW	RELATED DOCUMENT
	IENT QUESTION	WORKSHOP	TRAINING	Click here to select>
ENTER INFORMATION Manuficturers HONDA T LEAD 125 (2017-2018)	Select the bokup items			
		-4		

Step 4: Connect SMK-SP cable with SCU. Check that the wire and footprint soldering is correct according to the guide diagram. Good soldering contact, good connector, not wrong, short-circuits with other points by welding.

Step 5: Plug SMK-SP* cable into COM port of computer and then click to "**CONNECT TO SCU**" button to MOTODATA connect to SCU.

Notes: - You set COM port is 8 for SMK-SP cable and SMK-YS cable

- You set COM port is 9 for SMK-LV cable



HONDA - SH MODE 2019 - PROGRA	AM SMART KEY	A		
	CONNECT TO COMPUTER		CONNECT TO MOTOSCAN	I OR EASYKEY
COMPUTER (MÁY TÍNH)	Vellow Honda SMART KEY Adapter For Pc Black/Den Red/E	Vàng ed/Đỏ Black/Đen	Yellow/Vang	
	SH M	PART CODE: K29	ΈY	SMART KEY PROCEDURE
ECMID	KEYID 1	KEYID 2	KEYID 3	KEYID 4
PREAD KEYID	DELETE KEYID	🔎 on/off keyid	SYNC SCU TO ECM	COPY KEYID
PROCESS DATA				
😔 COPY DATA FR	OM SCU A TO SCU B	EDIT DATA	ВАСКИР	RESTORE
TDAuto Copyri	ght 2013-2020 DTDAUTO VIETN	AM Co., Ltd		EXIT

Step 6: Click to "**READ KEYID**" to read KEYID# and ECMID

CONNECT TO SCU	SH MODE SMART KEY PART CODE: K29			SMART KEY PROCED	
ECMID	KEYID 1	KEYID 2	KEYID 3	KEYID 4	
🖌 🏸 READ KEYID	DELETE KEYID	Revid	SYNC SCU TO ECM	Сору кеуі р	
PROCESS DATA	ROM SCU A TO SCU B	EDIT DATA	BACKUP	RESTORE	

If reading is successful then the screen display as below:



If reading is unsuccessful then check your connection then do it again.

3.2 DELETE KEYID

You use this function when SCU memory is full, you need delete KEYID or cancel KEYID when lost FOB to avoid lost of vehicle.

Step 1: Connect cable with SCU and COM port of computer then read KEYID as item **3.1**

Step 2: Select **"DELETE KEYID**" from function table (example: delete KEYID for HONDA SH MODE)



Step 3: Click to KEYID that you want to delete





3.3 CREATE SCU DATA WITH 01 KEYID

When SCU memory is full, you cannot add new FOB so you need to delete KEYID stored in memory. You use "**CREATE SCU DATA WITH 01 KEYID**" function is the same as "**DELETE KEYID**" of other SCU.

NOTES: You must to do full steps as guide procedure on software. Step 1: Click to "CREATE SCU DATA WITH 01 KEYID"

	LEAD SMARTKEY 2018 PART CODE: K12			SMART KEY PROCEDUR
ECMID/KEYID#	ECMID/KEYID#	KEYID#	KEYID#	KEYID#
	FIND ECMID/KEYID≠		CREATE SCU D	ATA WITH 1 KEYID
PROCESS DATA	M SCU A> SCU B	EDIT DATA	ВАСКИР	RESCUE
				EXT

Step 2: Follow the steps as below:











3.4 ON/OFF KEYID

You use this function to activate (ON) or deactivate (OFF) KEYID.

Step 1: Connect SMK-SP cable with SCU and computer then read KEYID as item **3.1**

Step 2: Click to "ON/OFF KEYID"



Step 3: Click to right button to "**ON**→**OFF**" or "**OFF**→**ON**" KEYID then click to "**SELECT**".

A HONDA - SH MO	DE 2019 SMART KEY - ON/OF	FKEYID	
Please click	k mouse to right bu	tton to ON/OFF KEYI	D
KEYID 1:	259343376	ON> OFF	KEYID: OFF
KEYID 2:	153141806	ON	KEYID: ON
KEYID 3:	013463180	ON	KEYID: OFF
KEYID 4:	151800394	ON	KEYID: ON
Note: green o	color indicate ON status	of KEYID, red color indica	ate OFF status of KEYID
DTDAL	Copyright 2013	-2020 DTDAUTO VIETNAI	M Co., Ltd



3.5 SYNC SCU TO ECM

Used to write ECMID of current ECM to synchronized SCU for HONDA.

Step 1: Click to "SYNC SCU TO ECM" from function table

CONNECT TO SCU	SH	MODE SMART K PART CODE: K29	ΈY	SMART KEY PROCED
PROCESS KEYID ECMID	KEYID 1	KEYID 2	KEYID 3	KEYID 4
123456789	259343376	153141806	013463180	151800394
PREAD KEYID	A DELETE KEYID	😞 ON/OFF KEYID	📕 🥏 SYNC SCU TO ECM	COPY KEYID
PROCESS DATA				
😔 COPY DATA FRO	M SCU A TO SCU B	EDIT DATA	ВАСКИР	RESTORE



Step 2: Enter ECMID inside synchronized ECM then click to "SYNC" to write ECMID to SCU.



3.6 COPY KEYID FROM SCU A TO SCU B

You select this function when you have 2 SCUs (SCU A and SCU B) and want to copy KEYID# from SCU A to SCU B or from SCU B to SCU A.



Step 1: Click to "COPY KEYID" button

CONNECT TO SCU	SH	MODE SMART K PART CODE: K29	ΈY	SMART KEY PROCEDU
PROCESS KEYID ECMID	KEYID 1	KEYID 2	KEYID 3	KEYID 4
123456789	259343376	153141806	013463180	151800394
PREAD KEYID	DELETE KEYID	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	SYNC SCU TO ECM	
PROCESS DATA				

Step 2: Connect SCU A to SMK-SP cable, check that the wire is correct according to the guide diagram then click to "**CONNECT TO SCU A**". You read KEYID from SCU A or saved file then disconnect to SCU A.

Step 3: Connect SCU B to SMK-SP cable, check that the wire is correct according to the guide diagram then click to **CONNECT TO SCU B**" and read KEYID from SCU B or saved file.

Step 4: Click to "COPY" button to select KEYID position to desired position

NOTE: You must complete all the steps according to the instructions on software until the finish.



HONDA - SH MODE 2019 SMART KEY - COPY KEYID FROM SCU A	TO SCU B
COPY KEYID FROM	SCU A TO SCU B
SCU A CONNECT TO SCU READ KEYID#	SCU B CONNECT TO SCU READ KEYID#
KEYID # INFORMATION KEYID 1: 259343376 KEYID 2: 153141806 KEYID 3: 013463180	KEYID 1: No key COPY KEYID 2: 146017342 COPY KEYID 3: No key COPY
KEYID 4: 151800394 COPY WRITE DATA WRITE TO SCU	KEYID 4: No key



3.7 COPY DATA FROM RESOURCE SCU TO TARGET SCU

Used to copy data from SCU to your current SCU.

NOTE: You must complete all the steps according to the instructions on software until the finish.

CONNECT TO SCU	SH	MODE SMART K	(EY	SMART KEY PROCEDURE
PROCESS KEVID		PART CODE: K29		
ECMID	KEYID 1	KEYID 2	KEYID 3	KEYID 4
123456789	259343376	153141806	013463180	151800394
PREAD KEYID		ON/OFF KEYID	SYNC SCU TO ECM	
COPY DATA FRO	M SCU A TO SCU B	EDIT DATA	ВАСКИР	
		L		
·				
COM Acom				



3.8 BACKUP SCU DATA

Step 1: Click to "**BACKUP**" to backup SCU data to folder in your computer.



Step 2: You select folder that you want to save SCU data then click to "BACKUP"

BACKUP SMARTKEY DATA	11110	
Where do you want to backup SCU data?		
	•	SELECT
Notes: Please add suggestions to the file name		
Examples: best friend, neighbor		
Copyright 2013-2020 DTDAUTO VIETNAM Co., Ltd	ВАСКИР	EXIT

3.9 RESTORE SCU DATA

If you want to restore SCU data from data that you saved at computer then you click to "**RESTORE**" button and do as instruction on the screen.



Step 1: Click to "RESTORE" button



Step 2: You select data file that you want to restore data for SCU:

RESTORE SMARTKEY DATA	X
Where do you want to restore SCU data from?	
D:\SMARTKEYBACKUP\BACKUP_PCX_SMARTKEY_20_12_2019 11-59'.bin	SELECT
4	•
Copyright 2013-2020 DTDAUTO VIETNAM Co., Ltd	

You click to "**RESTORE**" to restore SCU data.

3.10 EDIT DATA TO PERFORM ADVANCE FUNCTION

You click to "EDIT DATA" button to perform advance function for editing SCU data.

CONNECT LEA		AD SMARTKEY 2018 PART CODE: K12		SMART KEY PROCEDUR	
ECMID/KEYID#	ECMID/KEYID#	KEYID#	KEYID#	KEYID#	
]	FIND ECMID/KEYID#		CREATE SCU D	ATA WITH 1 KEYID	
PROCESS DATA	M SCU A> SCU B	EDIT DATA	ВАСКИР	RESCUE	



INDEX

I.	INTRODUCTION	2	
	1.1 APPLICATION & FUNCTION		3
	1.2 PACKAGE		7
	1.3 IMPORTANT NOTES	{	8
2.	. GUIDE INSTALL MOTODATA SOFTWARE	8	
3.	. USE MOTODATA FOR SMARTKEY PRO 7	9	
	3.1 READ KEYID# AND ECMID	9	9
	3.2 DELETE KEYID	14	4
	3.3 CREATE SCU DATA WITH 01 KEYID	10	6
	3.4 ON/OFF KEYID	19	9
	3.5 SYNC SCU TO ECM	2	1
	3.6 COPY KEYID FROM SCU A TO SCU B	22	2
	3.7 COPY DATA FROM RESOURCE SCU TO TARGET SCU	2!	5
	3.8 BACKUP SCU DATA	20	6
	3.9 RESTORE SCU DATA	2	7
	3.10 EDIT DATA TO PERFORM ADVANCE FUNCTION	30	0

DTDAUTO VIETNAM Co., Ltd

Phone: (+84)913.555.416, (+84)913.001.79
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WhatsApp: +84913555416/ +84912216555

- Address 1: No. D1, 93 Alley, Cau Giay st., Hanoi, Vietnam
- Address 2: Floor 3, BuildingA25, Institute of Physics / Institute of Science and Technology of Vietnam, No. 18 Hoang Quoc Viet, Hanoi, Vietnam

Email: dtdauto@gmail.com

Website: http://www.dtdauto.com; http://www.cartools.com.vn; http://www.cartraining.com.vn