

# *How to use LS7*



## HOW TO USE LS7

### CONNECTION DIAGRAM:

#### POWER CABLES



#### DATA CABLES



IMPORTANT NOTICE: ALL CONNECTIONS SHOULD BE LIKE IN THE PICTURES ABOVE.

If all connections are correct , when you switch on LS7, following messages will appear on display:

TPH CLONER FOUND

TPX CLONER FOUND



## *HOW TO USE LS7*

FOR A CORRECT USE OF THE LS7:

- The device has 2 buttons, “Read” and “Copy”; to know if a key is copiable you need to insert it in the apposite slot and to pRESS button “Read”

**Be careful to “flick” keys**

To read the transponder on a “flick” key you need to insert the key “closed”, as per picture n° 2





## *HOW TO USE LS7*

- Once you have inserted the original key and pRESSED the button “Read” the code of the original transponder will appear on the first line of the display

(es: T06/19 Texas Cry Ford, T13 Philips Cry Nissan etc...)

On the second line of the display will appears the information if the key is copiable or not:

**IF YOU CAN COPY THE KEY, THE MESSAGE WILL BE:**

**COPY ON TX1, COPY ON TX2 –TX3-TX4-T05**

**IF YOU CAN NOT COPY THE KEY, THE MESSAGE WILL BE:**

**SEE MANUAL TP, NOT COPIABLE**

TX1

No enamel



TX2

White enamel



TX4

Violet enamel





## *HOW TO USE LS7*

➤ **Copiable key:**

LS7 doesn't code originals transponders (T14, T16, T03, ....) but only the different TX... Indicated in Errebi catalogues.

*It's very important to check and use the exact kind of chip requested by the LS7 to proceed with the copy procedure.*

When on display the following message apperars:

COPY ON T05, TX1, TX2 o TX3\*

you have to use a key with the transponder requested, press "Copy" button and to wait that the following message appears

"COPY OK REMOVE THE KEY"

When on display the following message apperars:

COPY ON TX4

It's necessary to follows instructions included in the section

[TX4 ENCODING](#) (Pag.9).

\*If the key has a T16 Peugeot transponder, specially in model 206 year 1999-2001 you have to follow instructions included in the section

[TX3 PEUGEOT ENCODING](#) (Pag.8).



## *HOW TO USE LS7*

- T05, TX1, TX3 e TX4 are rewritable transponders.
- **TX2 IS THE ONLY NO REWRITABLE TRANSPONDER.**

The encoding of TX2 chip **can last some minutes** and it's very important **not to remove Tx2 chip** once you have pressed "Copy".

### **HOW TO CHECK IF TX2 IS BLANK:**

- Switch on LS7 while keeping button "READ" pressed, DISPLAY CODE mode will activate. Now insert TX2 chip and then keep "READ" pressed until chip code details will appear on display  
If details will correspond to the following ones, the chip is blank.  
If not you can't use the chip

**P:FF I:00 M:00**  
**U:000080 L:00**



## HOW TO USE LS7

### ➤ No Copiable key:

The LS7 can identify all transponders that are in the original keys, even if **not all are copiable** (see transponder list hereunder)

Car keys that are using Megamos Crypto System (T-08 ID48), like Fiat Multipla or Lancia Y, are not copiable.

If you read one of these keys, on the second line of LS7 display, following messages will appear:

“See manual TP” or “NOT COPIABLE”

In both cases LS7 can't copy original key in one of TX... Chips available; please advice the customer to address to car dealer

Transponder List			
Name			
LS7	PHILIPS	T01-T05	TEXAS (Ceramic) T04-TX1
	TEMIC	T02-T05	NOVA T05
	TEXAS (Crystal)	T03-TX1	
LS7 + TX CLONNER	TEXAS CRYPTO Crystal	T06-TX2	PHILIPS CRYPTO T09*-T05
	TEXAS CRYPTO Ceramic	T19-TX2	PHILIPS CRYPTO
	TEXAS CRYPTO Ceramic	T20-TX2	1° Generation T10-TX3
	TEXAS CRYPTO	T21-TX2	PHILIPS CRYPTO T13-TX3
	TEXAS CRYPTO	T26-TX2	PHILIPS CRYPTO
	TEXAS CRYPTO	T27-TX2	2° Generation T14*-TX3
	TEXAS CRYPTO	T28-TX2	PHILIPS CRYPTO
	TEXAS CRYPTO New	T29-TX2	1° Generation T16-TX3
	TEXAS CRYPTO New	T30-TX2	PHILIPS CRYPTO T12-TX4
	TEXAS CRYPTO New	T31-TX2	
Identifica - Recognize Identifie - Nur Lesbar	MEGAMOS CRYPTO Crystal	T08	MOTOROLA INDALA T18
	MEGAMOS CRYPTO Ceramic	T11	MEGAMOS CRYPTO T22
	PHILIPS CRYPTO	T13	MEGAMOS CRYPTO T23
	PHILIPS CRYPTO		MEGAMOS CRYPTO T24
	2° Generation	T15	MEGAMOS CRYPTO T25
	TEMIC CRYPTO	T17	SOKY CRYPTO T32

\* Non tutti i microchips sono copiable. La LS7 al momento della lettura della chiave riconosce automaticamente se il chip è DUPLICABLE O NON DUPLICABLE. Not all transponder can be copied.





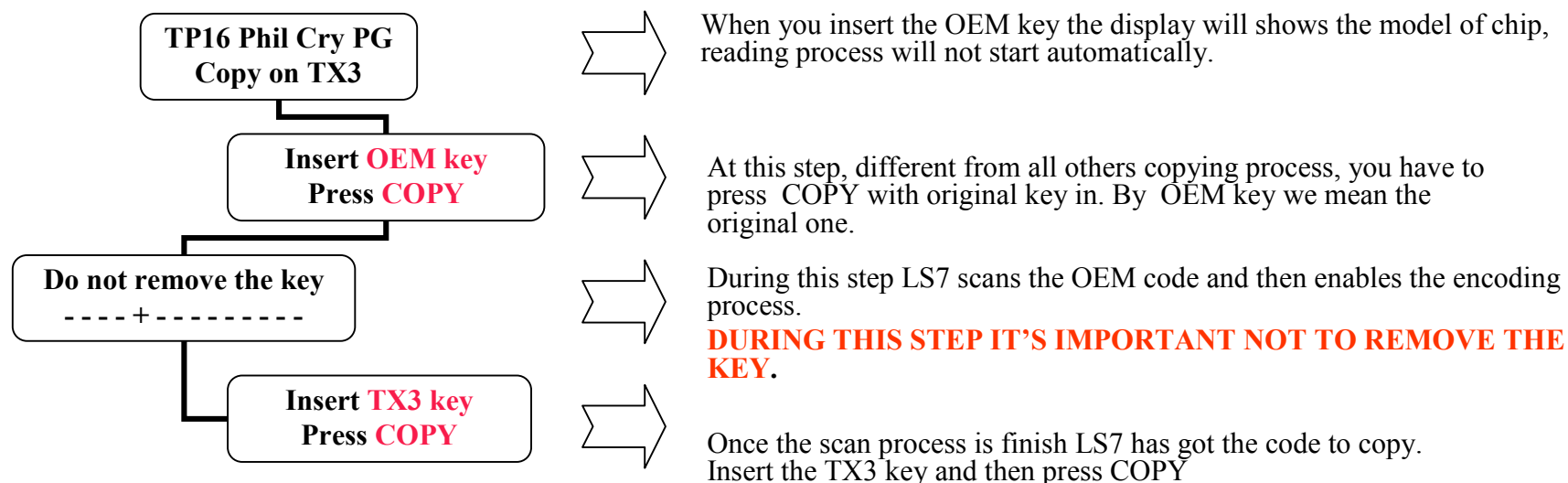
## HOW TO USE LS7

### TX3 PEUGEOT ENCODING

#### Messages string to copy T-16 PEUGEOT

When we are copying T16 it's **VERY IMPORTANT** do not remove the key unless all reading-writing processes are ended. Reading process doesn't have a pre-defined last so it can take longer time than usual to finish, **DO NOT REMOVE THE KEY**.

If original key is removed before the end of process, it could not work any longer.







## HOW TO USE LS7

### TX4 ENCODING

**Messages string to encode Tx4 and Tx4-Tech working:**

Insert original key (READ)	Insert customer original key you want to copy and press "Read".
T12 Phil Crypto Copy on TX4	LS7 indicates the kind of Philips Crypto, the message will last few seconds. To encode a Tx4 chip follow next steps.
DO NOT REMOVE press (COPY)	Do not remove the original key and press "Copy" to copy all data to Tx4-Tech device that will encodes the TX4 chip.
TX4-TECH Ready	This message will appears only few seconds and indicates that Tx4-Tech device is ready to proceed to the encoding of the new chip.
DO NOT REMOVE Press (READ)	Do not remove the original key and press "Read", Tx4-Tech will reads the key.
Ins. Blank TX4 Press (COPY)	Insert a blank TX4 chip and press "Copy"
Next message will appears only if the inserted TX4 chip is not blank, already encoded	
NO blank TX4 Erase it? CP=YES	The TX4 is not blank (already encoded), to erase its data and proceed with the encoding press "Copy" (CP= copy button)
COMPLETED Go to car	This message will appears only few seconds and indicates that you need to continue the procedure in the car.



## HOW TO USE LS7

### TX4 ENCODING

Now you need to prepare the ORIGINAL key with Tx4 placed on it, see picture 1.  
TX4 could be tied up on the key also with tape or hold with the hand.

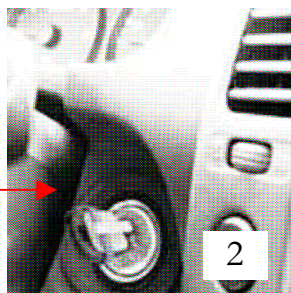
TX4 (Sniff Mode)



It's advisable to point the TX4 antenna (Part with copper winding) toward the tip of the key (toward the switch board).

To get car's data, proceed as follows:  
Insert the original key in the starter lock together with the Tx4 as indicated in picture 2.

TX4 (Sniff Mode)



Turn the ensemble key/TX4 till the first position of starting  
Turn back to the first position and remove the key from the starter lock.  
Repete **4 times** this operation

Once you have got the car data, **REMOVE THE TX4** from the key and go back to the LS7 on wich display appears the following message:

Ins.TX4-Sniff  
Press(READ)

Insert in the Ls7 **ONLY TX4 transponder** and press "Read"



## HOW TO USE LS7

### TX4 ENCODING

Data sniff TX4  
Copy? CP=YES

LS7 asks for a confirmation to proceed with TX4 encoding.  
Press "Copy" to proceed.

STEP 2 COMPLETED

This message will appears only few seconds and indicates that the data entry from the car has been succesfull.

Reins. ORIGINAL  
Press (Copy)

Re-insert the original key and press "Copy" to activate the search of the transponder crypto code part.

Processing...  
XX%

Do not remove the key during this step (it can takes few minutes) and wait for the processing done message.

Key found

This message will appears only few seconds and indicates that LS7 has "assembled" the full code and it's now ready to write it on the TX4.

Reins. TX4  
Press (Copy)

Insert the Tx4 and press "Copy" to encode the TX4 transponder

COMPLETED

This message will appears only few seconds and indicates that LS7 has succesfully encoded the TX4 transponder.

Copy another?  
Copy? CP=YES

If it would be necessary to copy more than one Tx4 with the same encoding you don't need to repete all the process.  
It's enough to insert a new chip and press "Copy" 2 times.

Reins. TX4  
Copy? CP=YES





# HOW TO USE LS7

## TX4 PLUS ENCODING

**TX4 PLUS** it's the new transponder that allows the encoding of "Opel and Mitsubishi" crypto keys.

This new transponder will replace the TX4 one that you can continue to use until stock ends to copy all previous cars not included in the list hereunder.

To identify the TX4 PLUS a dip of green enamel, in addition to the violet one, has been added on (see pag 4)

OPEL		
AGILA	2007	TX4SZ15P
ANTARA	2007	TX4DW1P
ASTRA	2004	TX4HF66PB
CORSA	2006	TX4HF66PB
INSIGNA	2008	TX4HF66PB
MOVANO	2002	TX4NE79P
SIGNUM	2003	TX4HF66PB
SIGNUM	2003-2005	TX4HF42P
VECTRA	2004	TX4HF66PB
VECTRA	2002-2004	TX4HF42P
VIVARO	2002	TX4NE79P
ZAFIRA	2006	TX4HF66PB

CHEVROLET (USA)		
CAMARO	2010	TX4HF66PB
EQUINOX	2010	TX4HF66PB

CADILLAC		
CTS	2008-2010	TX4GM36P
STS	2006	TX4GM36P

MITSUBISHI		
380	2006	TX4MIT8RPB
ECLIPSE	2006	TX4MIT8RPB
GALANT	2006	TX4MIT8RPB
L200	2006	TX4MIT7PB
LANCER	1999-2005	TX4MIT8RPB
MAGNA	2006	TX4KIA7P
MONTERO	2006	TX4MIT7PB
OUTLANDER	2006	TX4MIT8RPB
PAJERO	2006	TX4MIT7PB
VERADA	2000-2002	TX4KIA7P

INFINITI (NISSAN)		
G35	2003-2007	TX4NS8P
QX56	2004-2007	TX4NS8P

CITROEN		
C-CROSSER	2007	TX4MIT8RPB

CHRYSLER		
ASPEN	2007-2009	TX4CY62P



## HOW TO USE LS7

### TX4 PLUS ENCODING

If you try to encode by using a TX4 a key that needs the use of a TX4 Plus the LS7 will detect the mistake. During the encoding final steps, the following messages will appear:

Have you a TX4 PLUS  
RD=YES CP=NO

LS7 asks if you are using a TX4 PLUS chip. Press Read if you are using it, press Copy if you are using a normal TX4 chip.

Insert TX4 Plus  
Copy? CP=YES

Insert now the TX4 PLUS chip and press Copy to complete the encoding.

**If the LS7 detects a system that needs a TX4 PLUS but the key is not in the previous list (see pag 12), then you can proceed with the encoding on a TX4 chip.**

Copy on TX4  
Copy? CP=YES

Insert TX4 chip and press Copy to complete the encoding.

Now will appears the message to check the TX4 PLUS car list (see pag 12).

If the car is not on this list the encoding has been successfully completed.

NOTICE!!!  
Check car List

COMPLETED