

EFI TECHNOLOGY

PGU09 / PGT10

For ASW-NEXT

Short User Manual

Immo



Tools.it

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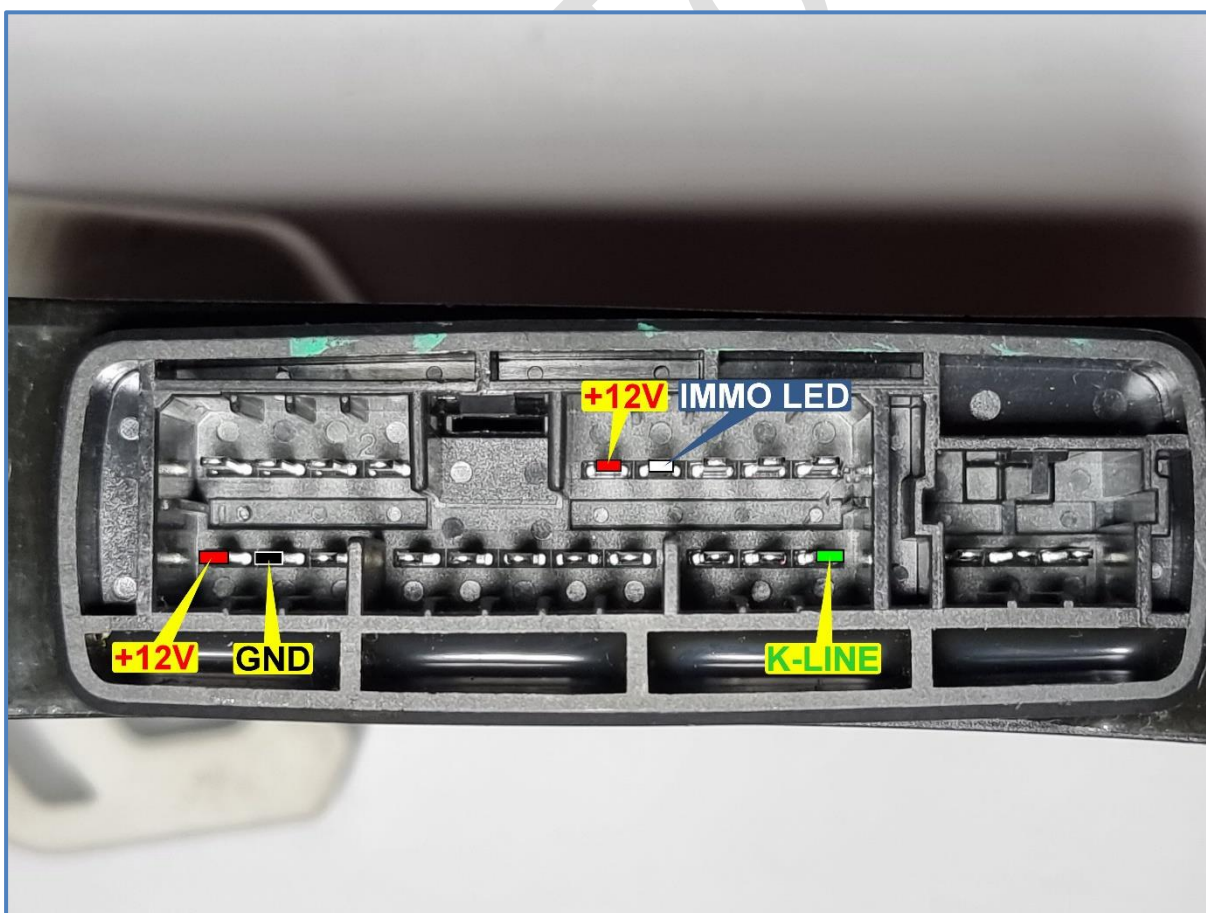
Important note:

It is not possible to read keys from PGU09 / PGT10.

Key programming for these control units is based on rewrite of existing key values in the memory. In other words, old key programming is erased and replaced with new transponder values without extracting old transponder values first.

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1. How to connect?



2. Software functions

- **Read Identification**

- **Write keys**

Erases all keys and stores new desired values of transponders. Up to 4 keys can be programmed during this procedure.

- **Reset to VIRGIN**

Erases all keys. Control unit is ready to self-learn new transponder values after Reset-to-VIRGIN.

3. Key programming procedures

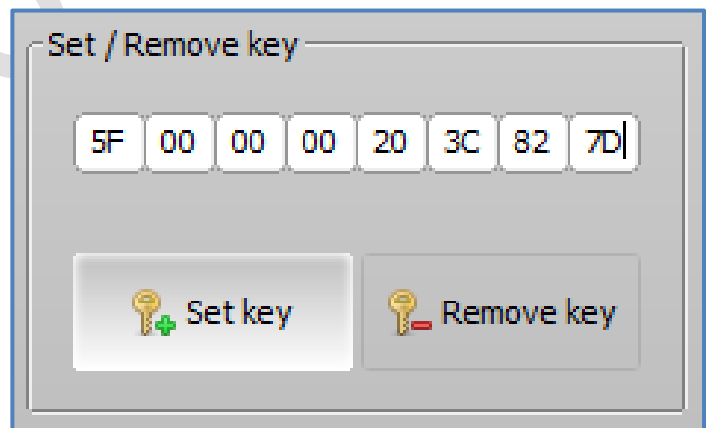
Let's overview several possible situations:

- **All keys were lost**

Use any transponder programmer to read key (or keys) you are going to learn. If no ready transponder is available just program any valid data to **T5** as **TYPE-11**. For example, **BE FA 00 00 01 23 45 67** if your key programmer uses header „**BE FA**“ or **7D 5F 00 00 80 C4 A2 E6** if programmer uses header „**7D 5F**“.

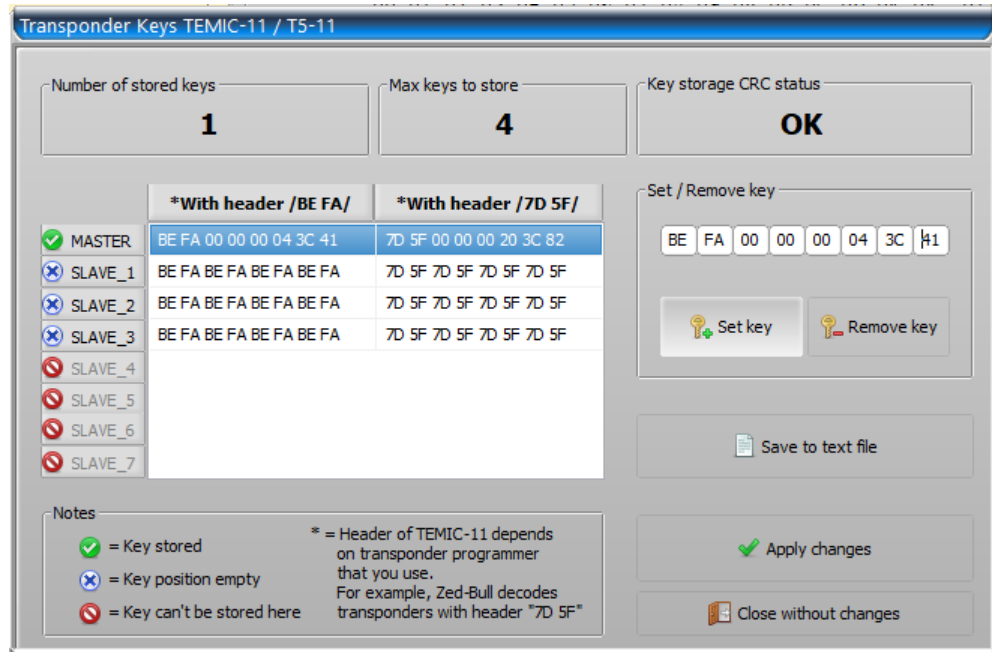


Let's say you've got **TYPE-11** or **T5-11** transponder and your transponder reader displayed value as in the picture above.

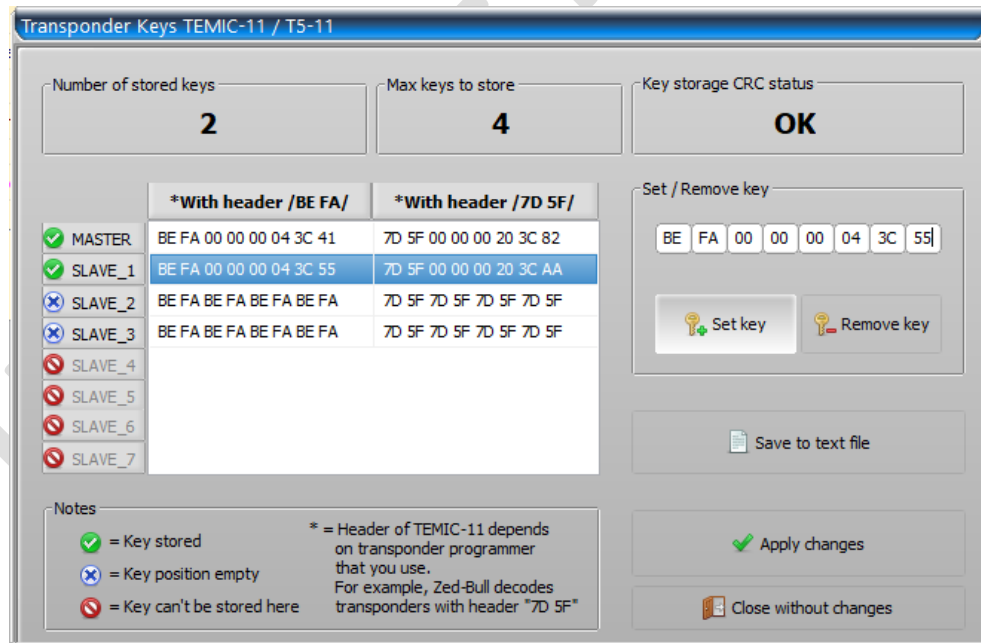


Enter this value to the „**Set / Remove key**“ field and press „**Set key**“ button. **Software will accept valid transponder value from a key programmer of every type – no data conversion of any kind is required.**

Software will automatically re-align bits and now it looks like this:



CDI unit will treat itself as not completely programmed with only one key stored. To avoid this you must to store one more key, even if single key is needed. Just enter any valid value for a second key position, different from value of **MASTER** key.



- Use „**Save to text file**“ to access transponder data later if no physical transponder is prepared yet. **Keep in mind that you can't read key values later from control unit**
- Press „**Apply changes**“ button to write key programming values to control unit

➤ **You got one valid SERVICE key, but you wish to set it as MASTER**

- Read existing **SERVICE** key with transponder programmer
- Set this value to **MASTER** key position
- Set any valid value **BE FA XX XX XX XX XX XX** to the position of **SERVICE_1** key
- Press „**Apply changes**“ to program keys to memory of control unit

➤ **You want to reset PGU09 / PGT10 to VIRGIN state**

- Fill all key positions with **BE FA BE FA BE FA BE FA**
- Press „**Apply changes**“ to program blank key values to memory

or

- Press button „**Reset to VIRGIN**“

➤ **You want to learn keys to the VIRGIN PGU09 / PGT10**

- Make yourself two valid **T5-11** transponders or take two ready suitable keys of **TEMIC-11 / TYPE-11**.

To make **T5-11** transponders please program to one of them, for example:

BE FA 00 00 00 11 22 33 (7D 5F 00 00 00 88 44 CC)* and

BE FA 00 00 00 11 22 34 (7D 5F 00 00 00 88 44 2C)* to another.

Both transponders must be programmed with different values.

- Turn ignition with first key for 2 sec. This key will be stored as a **MASTER**
- Turn ignition with second key for 2 sec. This key will be stored as a **SERVICE**
- Turn ignition with first key again for 2 sec. to close programming procedure.

NOTE: Do not exceed time of 2 seconds when changing key in ignition lock between every step

***- Depends on type of transponder programmer (does it use BE FA or 7D 5F header)**

➤ **You want to check how many keys programmed to the PGU09 / PGT10**

- Press „**Read Identification**“ button to read HW / SW info along with number of keys programmed to the control unit