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application version: 00.140327

PROGRAMMING MANUAL
ZeelProg PPV-RZ3

Supported control units: **PPV-RZ3**

ZeelProg is PC application for programming ZEELTRONIC engine *control units*. For programming special PC-USB programmer is needed.

- ***ZeelProg*** automatically detects PC-USB programmer connection and enables all functions (without PC-USB programmer, ***ZeelProg*** application is locked).
- ***ZeelProg*** automatically detects type of engine *control unit* connected to PC-USB programmer.

CONTENT

ZeelProg SOFTWARE INSTALLATION GUIDE

CD content:
- driver (USB programmer driver)
- NET Framevork
- ZeelProg

Software can be also downloaded from web site:
http://www.zeeltronic.com/page/zeelprog.php

ZeelProg application can be installed on Windows XP/Vista.
"NET Framework 3.5" needs to be installed.

Installation:
① Insert CD-ROM and browse content.
② Install USB programmer driver with running "CDM20600.exe" from CD-ROM "driver" directory.
③ Install ***ZeelProg*** with running "setup ZeelProg.exe" from CD-ROM "ZeelProg" directory.

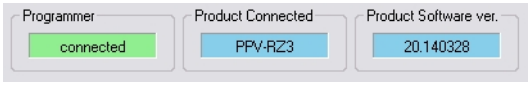
If ***ZeelProg*** does not start, install "NET Framework" from CD-ROM "NET Framework" directory.

ZeelProg USER INTERFACE

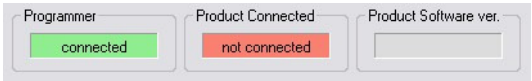
Auto detection

Zeelprog automatically detects USB-Programmer connection and type of *control unit*.

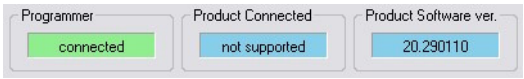
⇨ Programmer connected, product (*control unit*) connected:



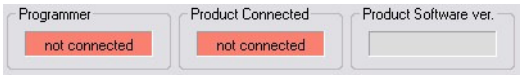
⇨ Programmer connected, product (*control unit*) not connected:



⇨ Programmer connected, product (*control unit*) not supported:



⇨ Programmer not connected, product (*control unit*) not connected:

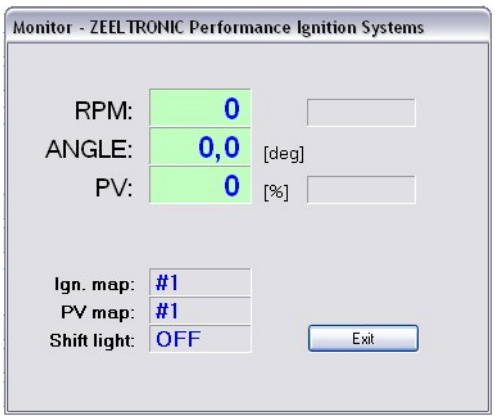


Menu structure

⇨ **File menu** is active when PC-USB programmer is connected

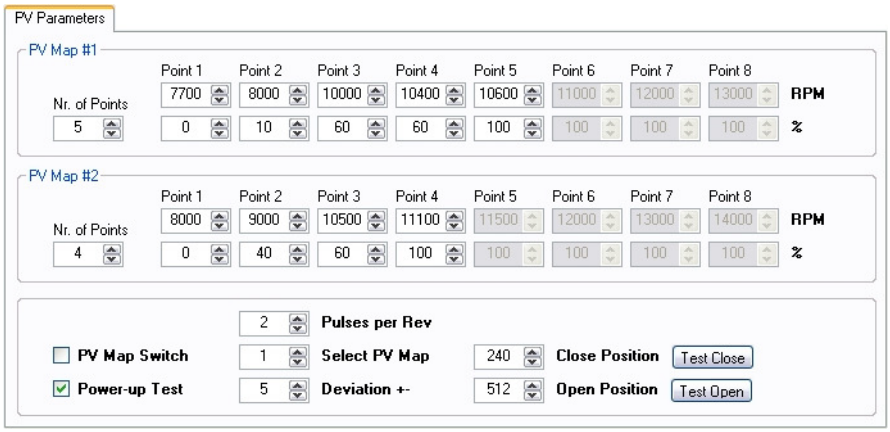
Open → Open an existing *.zee file
Save As → Save all parameters to *.zee file

⇨ **Monitor** is active when *control unit* is connected to PC-USB programmer.
Clicking on the **Monitor** opens Monitor window.



⇨ Clicking on **About** opens About window and show some basic information about ***ZeelProg*** application.

PV Parameters



⇨ **Nr. of Points** for each PV map can be set from 2 to 8.
⇨ **RPM** of each PV point can be set from 100rpm to 20000rpm in 100rpm steps.
⇨ **%**...PV position of each PV point can be set from 0% to 100% in 1% steps.
⇨ **Pulses per Rev**...set to 1 for single cylinder and set to 2 for wasted spark twin.
⇨ **PV Map Switch**...enables, or disables PV map switch. Ignition map can be
⇨ **Power-up Test**...enables, or disables PV test at switching on power supply.
⇨ **Select PV Map**...selecting active PV map.
⇨ **Deviation**...prevents 'hunting' of PV servo.
⇨ **Close Position** of PV servo. Close position is 0% on PV map.
⇨ **Open Position** of PV servo. Open position is 100% on PV map.
⇨ **Test Close**...clicking on **Test Close** button, opens Test Close window. Function is active when PC-USB programmer and *control unit* are connected.
⇨ **Test Open**...clicking on **Test Open** button, opens Test Open window. Function is active when PC-USB programmer and *control unit* are connected.

PROGRAMMING AND SETTING NEW PARAMETERS

➲ While programming or reading, *control unit* does not need to be connected to power supply, because it is supplied through PC-USB programmer.

Changing control unit parameters

① Read parameters from connected *control unit*, by pressing **Read** button.

Progress bar indicate read and verify process.

Successful reading is indicated as: 

Error while reading is indicated as: 

If error occurs, then repeat reading.

② Change parameters

③ Program parameters to connected *control unit*, by pressing **Program** button.

Progress bar indicate program and verify process.

Successful programming is indicated as: 

Error while programming is indicated as: 

If error occurs, then repeat programming.

Make new *.zee file without connecting control unit

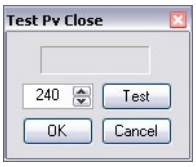
① Connect PC-USB programmer to PC.

② Set parameters

④ Save parameters by clicking **Save As** from **File menu**.

Set PV close position

⇨ Clicking on **Test Close** button opens Test Close window.
Function is active when PC-USB programmer and *control unit* are connected.



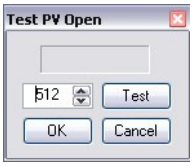
⇨ PV servo close position can be tested before confirming... PV servo moves to close position, after clicking on **Test** button.

⇨ If PV servo can't move to close position then **error 1** will occur. To clear **error 1** change close position and click on **Test** button.

⇨ Click on **OK** button to confirm close position, or **Cancel** to keep old close position.

Set PV open position

⇨ Clicking on **Test Open** button opens Test Open window.
Function is active when PC-USB programmer and *control unit* are connected.

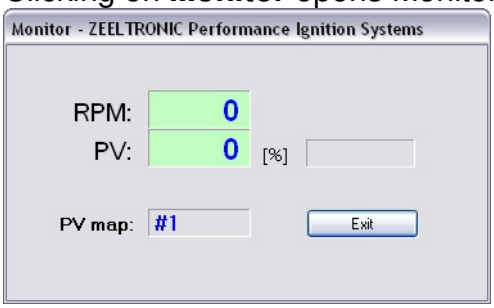


⇨ PV servo open position can be tested before confirming... PV servo moves to open position, after clicking on **Test** button.
⇨ If PV servo can't move to open position then **error 1** will occur. To clear **error 1** change open position and click on **Test** button.
⇨ Click on **OK** button to confirm open position, or **Cancel** button to keep old open position.

MONITOR FUNCTION

⇨ **Monitor** function is active when *control unit* is connected to PC-USB programmer.

Clicking on **Monitor** opens Monitor window.



⇨ Monitor show engine revolution, PV servo position, selected PV map and PV error.
⇨ PV error 1...when PV servo can't move to position...faulty, or disconnected PV servo.
⇨ PV error 2...when too high current on PV servo output.