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application version: 00.120824

USER MANUAL ZeelProg PCDI-VE1

Supported control units: **PCDI-VE1**

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.

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ZeelProg SOFTWARE INSTALLATION GUIDE

CD content:

- driver (USB programmer driver)
- NET Framework
- 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

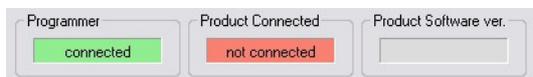
Auto detection

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

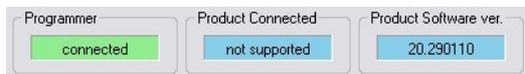
⇒ Programmer connected, product (*control unit*) connected:



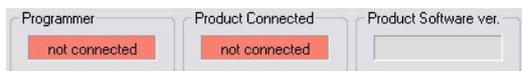
⇒ Programmer connected, product (*control unit*) not connected:



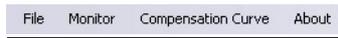
⇒ Programmer connected, product (*control unit*) not supported:



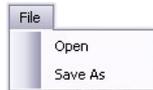
⇒ Programmer not connected, product (*control unit*) not connected:



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.



⇒ **Compensation curve** is active when PC-USB programmer is connected.

Stator has only charging coils and no pickup. Trigger timing is not constant, because signal is taken from charging coils. Compensation curve is needed to correct possible timing error.

Important!

Do not make any changes, if you are not sure about procedure. Unit is already compensated and normally does not need corrections.

To check, if timing is correct then flat ignition curve must be programmed (for example 15deg). Make mark at 15deg on the flywheel and check with stroboscope light, if timing is correct through all rev range. Make corrections to compensation curve, if necessary.

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



Ignition Parameters

Ignition Parameters

Ignition Map #1

6		Nr. of Points		+ - deg						
Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	RPM
1000	1500	4000	6000	7000	8000	9000	10000	11000	12000	
20,0	23,0	23,0	18,0	16,0	15,0	15,0	15,0	15,0	15,0	deg

Ignition Map #2

6		Nr. of Points		+ - deg						
Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	RPM
1000	1500	4000	6000	7000	8000	9000	10000	11000	12000	
20,0	23,0	23,0	18,0	16,0	15,0	15,0	15,0	15,0	15,0	deg

0,0	Static Angle [°]	13000	Rev Limit [rpm]	<input type="checkbox"/>	Ignition Map Switch
0,0	Advance [°]	11000	Shift Light [rpm]	1	Select Ignition Map
		0	Shift Kill Time [ms]		

- ⇒ **Nr. of Points** for each ignition map can be set from 4 to 10.
- ⇒ **RPM** of each ignition point can be set from 100rpm to 20000rpm in 100rpm steps.
- ⇒ **deg**...advance of each ignition point can be set from 0deg to 85deg in 0,1deg steps
- ⇒ **+ - deg** ... increasing, or decreasing advance of all ignition points in same ignition map
- ⇒ **Advance**...advances, or retards whole ignition map from -10deg to 10deg in 0,1deg steps. Positive value advances and negative value retards.
- ⇒ **Rev limit**...limits maximum revolutions. Set to maximum 20000rpm in 100rpm steps.
- ⇒ **Shift light**...activate shift light output above programmed revs. Set to maximum 20000rpm in 100rpm steps.
- ⇒ **Shift Kill Time**...for shifting without using clutch - shift sensor is required. Function is disabled with setting to 0ms.
- ⇒ **Ignition Map Switch**...enables, or disables ignition map switch. Ignition map can be selected with switch, when function is enabled.
- ⇒ **Select Ignition Map**...selection is active only when **Ignition Map Switch** is not enabled.

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

③ Save parameters by clicking **Save As** from **File menu**.



MONITOR FUNCTION

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

File Monitor Compensation Curve About

Clicking on **Monitor** opens Monitor window.



⇒ Monitor show engine revolution, ignition advance angle, selected ignition map, shift light status and rev limit activation.