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## MICT – New Release 2.0

For Ignition Controllers of the MIC3/  
MIC4/MIC5/MIC850 series and the  
Stepper Motor Card VariStep



From now on, MOTORTECH ships all ignition controllers of the MIC3, MIC4, MIC5 and MIC850 series as well as the stepper motor card VariStep with the new MICT release 2.0.

To update the MICT on your PC, please read the corresponding operating manuals for the devices, available for download at [www.motortech.de](http://www.motortech.de). Before installing the MICT, check your system requirements.

At the following link, you can download the new MICT, all currently available operating manuals, as well as the latest version of the firmware required for operating your ignition controller (111 mb).

► <http://www.motortech.biz/downloads/MOTORTECH-SoftwarePackage-MICT-2-0-o.zip>

### Release 2.0.0 – 2014/09/05 – New Functions and Modifications

- A) 2.0.0 – General
  - New MICT Icon
  - Chinese translation has been added.
- B) 2.0.0 – MIC3 Series
  - Bugfix: Cylinder names are again displayed in runtime data window.
  - Cylinder names are displayed in *Self Test* window.
  - Bugfix: Current speed is again displayed in schedule window.
  - Chinese online help has been added.
  - Update of the coil database *Coils V2*
- C) 2.0.0 – MIC4 Series
  - Bugfix: Cylinder names are again displayed in runtime data window.
  - Cylinder names are displayed in *Self Test* window.
  - Bugfix: Current speed is again displayed in schedule window.
  - Chinese online help has been added.
  - Update of the coil database *Coils V2*
- D) 2.0.0 – MIC5 Series
  - Bugfix: Cylinder names are again displayed in runtime data window.
  - Cylinder names are displayed in *Self Test* window.
  - Bugfix: Current speed is again displayed in schedule window.
  - Chinese online help has been added.
  - Update of the coil database *Coils V2*

#### Distribution

Customers /other	Yes	OEM Partners	Yes
Distributors & Sales Partner	Yes	MOTORTECH Branches	Yes

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- E) 2.0.0 – MIC850 Series
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- F) 2.0.0 – VariStep Series
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- G) 2.0.0 – VariStep3 Series
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#### Release 1.31.1 – 2014/04/22 – New Functions and Modifications

- A) 1.31.1 – General
  - Database settings for easier use of other database files have been added.
- B) 1.31.1 – MIC3 Series
  - Runtime data tracing support has been added.
  - Configuration of number of stop bits for RS485 interface (Modbus) has been added.
  - Online help has been added.
- C) 1.31.1 – MIC4 Series
  - Update of runtime data tracing support
  - Configuration of number of stop bits for RS485 interface (Modbus) has been added.
  - Update of online help
- D) 1.31.1 – MIC5 Series
  - Update of runtime data tracing support
  - Configuration of number of stop bits for RS485 interface (Modbus) has been added.
  - Online help has been added.
- E) 1.31.1 – MIC850 Series
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- F) 1.31.1 – VariStep Series
  - Update of online help
- G) 1.31.1 – VariStep3 Series
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#### Release 1.28.1 – 2014/03/11 – New Functions and Modifications

- A) 1.28.1 – General
  - Parallel installation of different MICT releases is supported.
- B) 1.28.1 – MIC3 Series
  - Update of the coil database *Coils V2*
  - Only two pre trigger voltages are displayed in runtime data window.
- C) 1.28.1 – MIC4 Series
  - Update of the coil database *Coils V2*
- D) 1.28.1 – MIC5 Series
  - Update of the coil database *Coils V2*

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- E) 1.28.1 — MIC850 Series
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- F) 1.28.1 — VariStep Series
  - Device type *Throttle* has been added. This requires VariStep firmware  $\geq$  1.3.
  - New state *Configured/Unconfigured* has been added. If *Unconfigured* is selected, the VariStep stepper motor card is neither configured as VariFuel2 air/fuel ratio mixer nor as a throttle. One of the consequences is that upon start-up, no automatic reference run is carried out. This requires VariStep firmware  $\geq$  1.3.
  - New device *None* has been added, which will be used with a default configuration (e. g. when devices are exchanged) or with selection *unknown* for the external device.
- G) 1.28.1 — VariStep3 Series
  - Device type *Throttle* has been added.
  - New state *Configured/Unconfigured* has been added. If *Unconfigured* is selected, the VariStep stepper motor card is neither configured as VariFuel2 air/fuel ratio mixer nor as a throttle. One of the consequences is that upon start-up, no automatic reference run is carried out. This requires VariStep firmware  $\geq$  1.3.
  - New device *None* has been added, which will be used with a default configuration (e. g. when devices are exchanged) or with selection *unknown* for the external device.

## Release 1.23.0 – 2014/01/28 – New Functions and Modifications

- A) 1.23.0 — General
  - Pickup configuration window has been reworked to enhance the layout of the controls.
  - New window *Tools -> Coils* has been added. It displays information on ignition coils for MIC3/4/5 and allows data export to igniti on coil data files. These files are downloadable via field bus.
- B) 1.23.0 — MIC3 Series
  - Introduction of coil database *Coils V2*; this requires MIC3 firmware  $\geq$  0.5.
  - If an engine without information is selected (i. e. inline and v engines from manufacturer *Sequence*), it is possible to switch between inline and v engine without resetting the selection via *New Engine Configuration*.
  - Number of cylinders is also set for engines without cylinder name information.
  - Max power-on speed configuration has been added.
  - Support for trigger disc type *N+1 EXTENDED INDEX RANGE* has been added.
- C) 1.23.0 — MIC4 Series
  - Introduction of database *Coils V2*; this requires MIC4 firmware  $\geq$  0.27.
  - If an engine without information is selected (i. e. inline and v engines from manufacturer *Sequence*), it is possible to switch between inline and v engine without resetting the selection via *New Engine Configuration*.
  - Number of cylinders is also set for engines without information on cylinder names.
  - Max power-on speed configuration has been added.
  - Support for trigger disc type *N+1 EXTENDED INDEX RANGE* has been added.
- D) 1.23.0 — MIC5 Series
  - Introduction of coil database *Coils V2*; this requires MIC5 firmware  $\geq$  0.27.
  - If an engine without information is selected (i. e. inline and v engines from manufacturer *Sequence*), it is possible to switch between inline and v engine without resetting the selection via *New Engine Configuration*.
  - Number of cylinders is also set for engines without information on cylinder names.
  - Max power-on speed configuration has been added.
  - Support for trigger disc type *N+1 EXTENDED INDEX RANGE* has been added.

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- E) 1.23.0 – MIC850 Series
  - If an engine without information is selected (i. e. inline and v engines from manufacturer *Sequence*), it is possible to switch between inline and v engine without resetting the selection via *New Engine Configuration*.
- F) 1.23.0 – VariStep Serie
  - Modbus and CANopen configuration has been disabled.
- G) 1.23.0 – VariStep3 Serie
  - Support for VariStep3 has been added.

#### Release 1.20.1 – 2013/12/06 – New Functions and Modifications

- A) 1.20.1 – General
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- B) 1.20.1 – MIC3 Series
  - Ignition coil 06.50.300 has been added.
  - Ignition coil 06.50.112 has been added.
- C) 1.20.1 – MIC4 Series
  - Ignition coil 06.50.300 has been added.
  - Ignition coil 06.50.112 has been added.
- D) 1.20.1 – MIC5 Series
  - Ignition coil 06.50.300 has been added.
  - Ignition coil 06.50.112 has been added.
- E) 1.20.1 – MIC850 Series
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- F) 1.20.1 – VariStep Series
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#### Release 1.20.0 – 2013/10/28 – New Functions and Modifications

- A) 1.20.0 – General
  - Update of the engine database
  - All supported configuration files are listed in the *Open Configuration File* dialog by default.
  - The menu item *Recent Documents* has been added.
  - Min/max. signal period is displayed in pickup trace.
  - Device names displayed in *Select Device Type* dialog.
  - In dialogs displaying information on missing optional configuration values, details are hidden.
  - MICT version number is included in configuration files.
  - Occasional problems with the generation of pdf documents have been solved.
  - Problem with missing progress dialog during configuration upload/download has been fixed.
- B) 1.20.0 – MIC3 Series
  - Support for MIC3 has been added.

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## C) 1.20.0 – MIC4 Series

- Change of the *Wiring* dialog to support user-defined wiring
- Configuration and runtime adjustment of secondary diagnostics calibration (voltage estimation and short detection) have been added.
- Minimum firing distance has been reduced from 2.8 ms to 1.7 ms. To be able to use this reduced minimum firing distance, MIC4 firmware  $\geq 0.21$  is required.
- Information on J1939 state has been added.
- New status system
- Increase of max. spark duration from 1000 $\mu$ s to 1500 $\mu$ s
- Alarm functions for misfire rate have been added.
- Misfire rate is displayed in runtime data.
- Relative angles are corrected to absolute angles for base timing and global timing point values when printed to runtime\_data.pdf.
- Integration of ignition coil data for diagnostic support
- Support of GPI configuration and display
- GPI state is displayed in runtime data window.
- Energy boost for start-up is supported.
- Support for error/warning list and alarm log has been removed and is replaced by message log. This requires MIC4 firmware  $\geq 0.16$ .
- Cylinder names are displayed in runtime data.
- Ignition coil 95.09.100 has been added.
- Ignition coil 06.50.108 has been added.

## D) 1.20.0 – MIC5 Series

- Support for MIC5 has been added.

## E) 1.20.0 – MIC850 Series

- Relative angles are corrected to absolute angles for base timing and global timing values when printed to runtime\_data.pdf.

## F) 1.20.0 – VariStep Series

- Minimum value of the CAN baud rate has been set to 50 kBit/s.  
NOTICE: Previous entries below the new minimum value will be voided with the MICT update!
- Update of the VariFuel2 air/fuel ratio mixer data base

## Release 1.12.3 – New Functions and Modifications (PrdU 2013/05 – 06.08.2013)

### A) 1.12.3 – General

- Update of engine database

### B) 1.12.3 – MIC4 Series

- Minimum value of the CAN baud rate has been set to 50 kBit/s.  
NOTICE: Previous entries below the new minimum value will be voided with the MICT update!
- Visualization of the alarm number in the status bar has been corrected.
- Help texts regarding the limits of cylinder individual timing have been adapted (ATDC/BTDC in ADV/RET).

### C) 1.12.3 – MIC850 Series

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### D) 1.12.3 – VariStep Series

- VariFuel2 series with stepper motors Rev. B have been added.

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## Release 1.12.2 – New Functions and Modifications

- A) 1.12.2 – General
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- B) 1.12.2 – MIC4 Series
  - Function *Runtime Data Trace* has been added.
  - Online help for the MIC4 has been added.
- C) 1.12.2 – MIC850 Series
  - A problem that was leading to a crash when the Runtime Data window was opened has been solved.
- D) 1.12.2 – VariStep Series
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## Release 1.12.1 – New Functions and Modifications

- A) 1.12.1 – General
  - Update of the engine database
- B) 1.12.1 – MIC4 Series
  - A faulty visualization of the *Self Test* window, that occurred when output A1 was selected, has been fixed.
  - A self test is only possible when at least one output is configured.
  - Problems with the configuration of cylinder names, that occurred during the download of a configuration, have been solved.
  - The calculation of the maximum overspeed with nine trigger events applied has been corrected.
- C) 1.12.1 – MIC850 Series
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- D) 1.12.1 – VariStep Series
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## Release 1.12.0 – New Functions and Modifications

- A) 1.12.0 – General
  - Update of the engine database
- B) 1.12.0 – MIC4 Series
  - Direct wiring is supported when an engine is selected from the database.
  - The visualization of the real time clock has been adapted.
  - A new configuration test for active pickups has been added (pre-trigger voltage  $\geq 1,5$  V).
  - The Resolution of period and frequency in the *Self Test* window has been increased.
- C) 1.12.0 – MIC850 Series
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- D) 1.12.0 – VariStep Series
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