TASKI Service Tool

TASKI swingo 350/455/755/855
1255/1650/1850/XP/4000/5000

Sealed Air
Diversey Care

Edition: V5.10/2014

Index

TASKI Service Tool

1 General

26. September 2014 Edition: V5.10/2014

1 General

1.1 General information

1.1.1 Part reference

⚠CAUTION *Explicitly mentioned parts are defined by references corresponding to the e-spares spare parts list.*

E.g. Tank axle (02/118) corresponds to the parts list on e-spares, sub assembly 2, position 118.

1.1.2 Consumable supplies

⚠CAUTION *If you have to remove cable ties then position the new ones at the original place.*

If you have to remove self locking nuts, you should replace them by new ones.

1.1.3 Direction description

⚠CAUTION *On the „RH“ always means on the right hand side of the machine in working direction (when you are standing behind the machine).*

On the „LH“ always means on the left hand side of the machine in working direction (when you are standing behind the machine).

1.1.4 Power source

Depending on the work it might be required to remove the power source (mains/batteries) from the machine.

The in here mentioned sequences (mechanical and electrical) are based on the assumption that the power source (mains/batteries) were removed from the machine before.

1.2 Required material

1.2.1 Tools

- A standard range of tools is required e.g.
  - Fork spanners.
  - Allen keys.
  - Torx keys.

1.2.2 Material

- No special tools are required.

⚠CAUTION *The above listings are only a recommendation for the technical training.*

TASKI Service Tool

2 Overall

26. September 2014 Edition: V5.10/2014

2.1 Overall

2.1.1 For which machines

Following you find information to the Service Tool for machine types:

- TASKI swingo 350B.
- TASKI swingo 455B.
- TASKI swingo 755B Eco.
- TASKI swingo 755B Power.
- TASKI swingo 855B Power.
- TASKI swingo 1255B.
- TASKI swingo 1650B.
- TASKI swingo 1850B.
- TASKI swingo XP.
- TASKI swingo XP-M.
- TASKI swingo XP-R.
- TASKI swingo 4000.
- TASKI swingo 5000.

2.2 Tools, requirements

2.2.1 Tools

- PC/Laptop.
- USB cable.
- Service Tool.
- Firmware.
- Tools to remove the electronics.

2.2.2 Computer/laptop requirements

- USB interface.
- Windows XP/7/8.

⚠CAUTION *Contact your IT department if you find any problems and report it to your GTS contact.*

2.2.3 USB cable specification

Picture 1: USB cable

- Plug 1: USB Type A.
- Plug 2: USB Type B.
- Length: max. 1.5m.

⚠CAUTION *Contact your IT department if you find any problems and report it to your GTS contact.*

2.3 Service Tool

The Service Tool is designed for several, newer scrubber driers of the TASKI swingo range. It consists of the following files:

- USB driver:
  - Depending on machine types.
- Firmware:
  - Depending on machine types.
- Service Tool:
  - Swingo Service Tool - Service Version vX_XX.exe.
  - _temp.xml.

2.3.1 USB driver

- The USB driver enables the communication between the machine and the computer.
- To communicate you need to install the driver on your computer.
- According to which machine type you connect you need the appropriate driver.

Remarks

To check how to install the drivers, please refer to the corresponding chapter.

2.3.2 Firmware

- The firmware is stored on the electronics or electronics and dashboard (TASKI swingo XP/4000/5000).
- It is responsible for the control of the components activities.
- An update or installation of the firmware can be done with the Service Tool.
- The firmware can be updated on machines without exchanging the electronic components.

Remarks

To check how to update the firmware, please refer to the corresponding chapter.

- The firmware contains several software elements. These software elements are packed together in a „*.7z“ file format.

2.3.3 Exchange of electronic components

- Before changing the electronics, please ensure that you use the same firmware family. The first number of the firmware version shows the firmware family.

⚠CAUTION *As the firmware is stored on the electronics, the exchange of the components is not critical.*

An update of the firmware is not necessary but recommended if newer versions are available. Please refer to the advice in the GTS Newsletters.

2.3.4 Install Service Tool

- Download the Service Tool from e-spares.
- Copy the unzipped Service Tool folder onto your Computer/ Laptop.
- The folders for the firmware of the different types of machines are empty.
  - Download the firmware from e-spares.
  - Copy the unzipped firmware into the appropriate folders.
- The USB drivers you find in the appropriate folders.

Remarks

No installation is required, you only need to copy it.

We advise to delete the older versions.

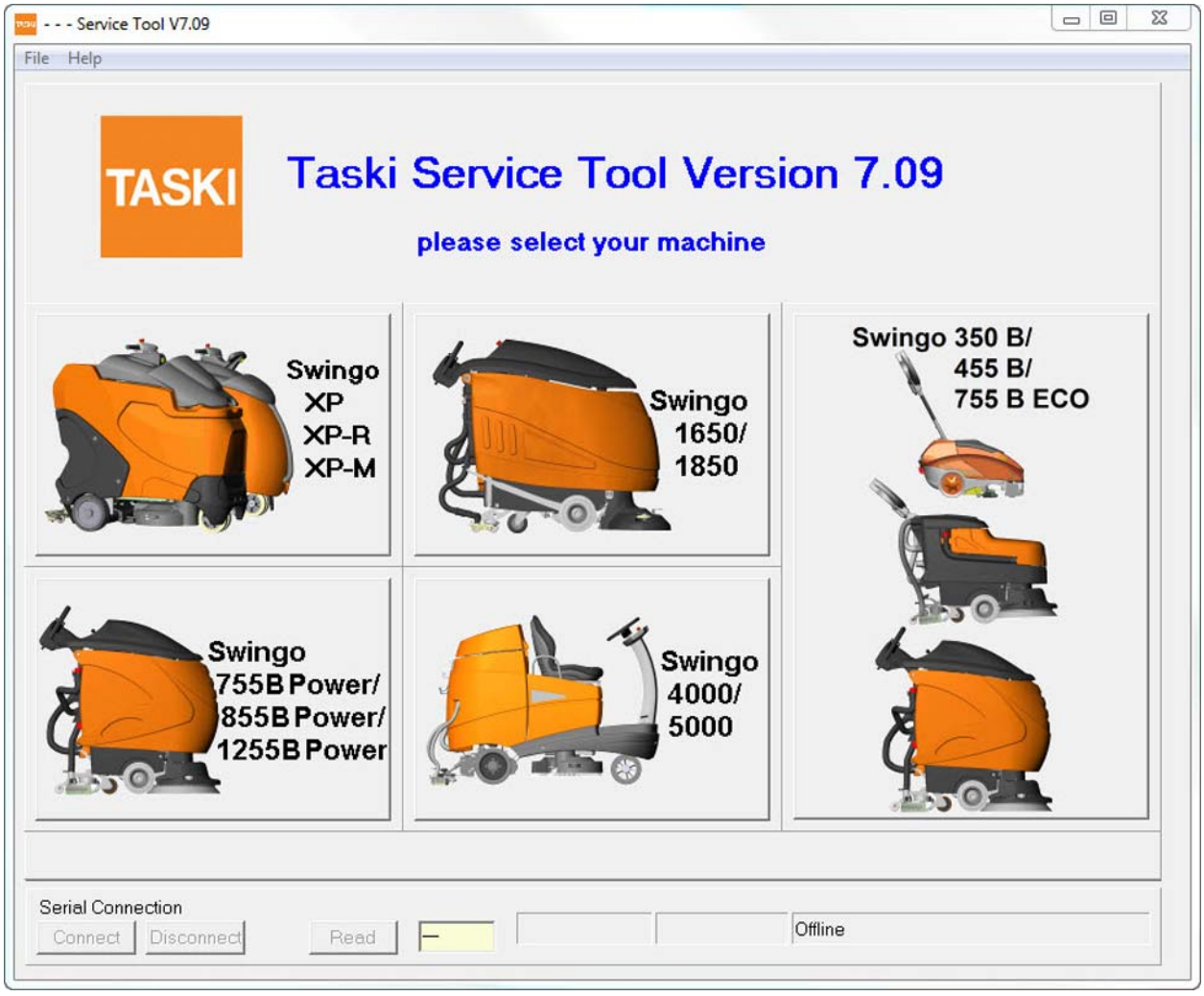
2.3.5 Start communication

- Connect the machine with the Computer/Laptop via the USB cable (always use the same USB port if possible).
- Switch ON the machine.
- Open the Service Tool.
- Swingo Service Tool - Service Version vX.XX.exe.

⚠CAUTION *Follow this procedure: Connect machine with USB cable --> switch ON the machine --> open the Service Tool --> press „Connect“.*

2.4 Service Tool overview

2.4.1 Service Tool overview



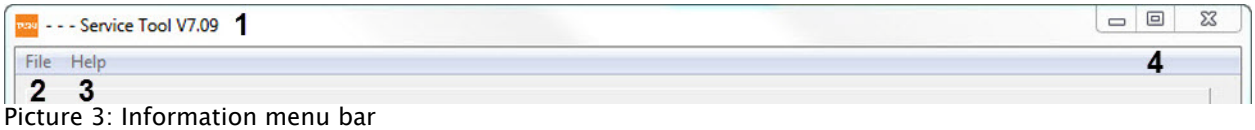
ST.02.13 overall – service tool overview_V1.01.fm

Picture 2: Service Tool overview

- After opening the Service Tool a system overview appears. Here you can select the required machine type.
- The Service Tool consist of 2 information bars:
  - Information menu bar (File and Menu).
  - Information bar bottom (Serial Connection).

2.5 Information bars

2.5.1 Information menu bar

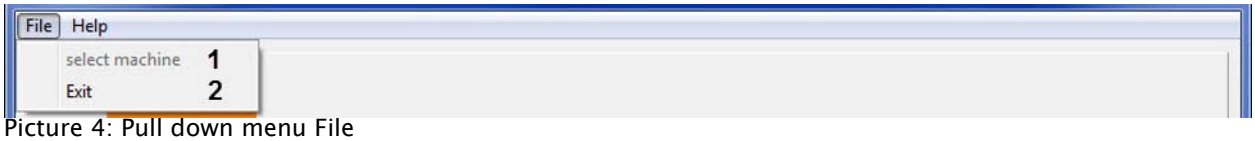


Picture 3: Information menu bar

Pos.	Name	Description
1	Service tool name	Name and version of Service Tool.
2	File	Pull down menu.
3	Help	Pull down menu.
4	Window options	Minimize window. Full or customized window size. Exit software.

Table 1: Information menu bar

2.5.2 Pull down menu File

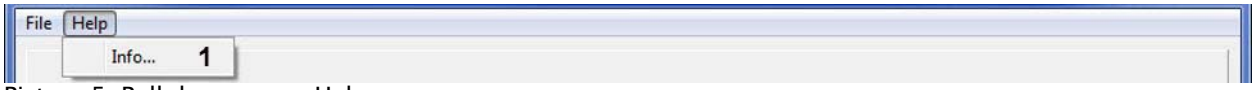


Picture 4: Pull down menu File

Pos.	Name	Description
1	select machine	With „select machine“ you can return to the first page and choose a new machine type.
2	Exit	With „Exit“ you can close the Service Tool.

Table 2: Pull down menu File

2.5.3 Pull down menu Help



Picture 5: Pull down menu Help

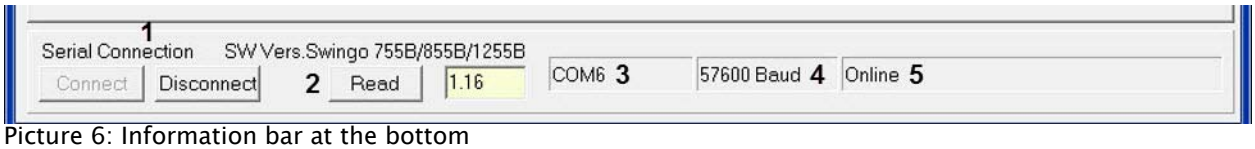
Pos.	Name	Description
1	Info...	With „Help“ you open a window where it shows the Service Tool version. 

Table 3: Pull down menu Help

2.5.4 Information bar at the bottom

⚠CAUTION *Please note that the machine is operational even though a PC/Laptop is connected.*

While the machine is „Online“ it will not shut down automatically.



Picture 6: Information bar at the bottom

Pos.	Name	Description
1	Serial Connection	Press „Connect“ button to start communication between machine and Computer/Laptop. Communication with machine will be initialized. When pressing the „Disconnect“ button the communication will be interrupted.
2	Read	Press „Read“ button to read out the actual machine firmware version.
3	Port information	Displays which computer port is used to communicate with the machine.
4	Baud rate	Shows the transmission speed of the communication.
5	Communication status	Shows the status of the communication.

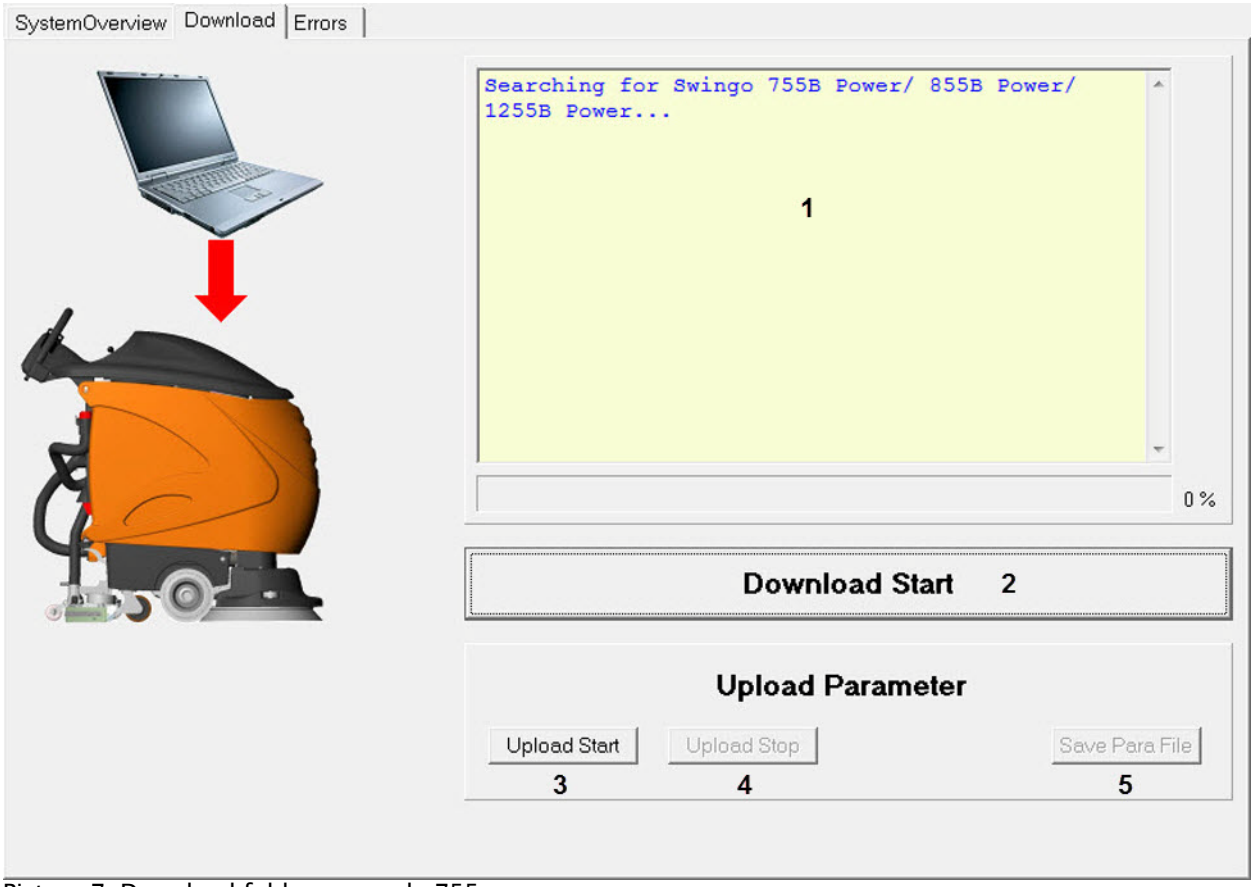
Table 4: Information bar at the bottom

2.6 Download firmware

2.6.1 Download folder

⚠CAUTION *This description is meant for all machine types. Be aware that the naming can vary according to the machine type.*

Following pictures are based on the TASKI swingo 755B power.



Picture 7: Download folder, example 755

Pos.	Name	Description
1	Communication window	Communication output window. Information related to the status of process. Status of download bar (%).
2	„Download Start“ button	Starts the download. From Computer/Laptop onto electronics.
3	„Upload Start“ button	Starts the upload of parameter file. From electronics onto Computer/Laptop.

Table 5: Download

ST.02.15 overall – download firmware_V1.00.fm

Pos.	Name	Description
4	„Upload Stop“ button	Interrupts the upload of parameter file.
5	„Save Para File“ button	Saves upload of parameters into file with *.XML format. Can be used to trouble shooting issues.

Table 5: Download

2.6.2 Chose firmware

- Make sure that the machine and Service Tool communicate.
- Press the „Download Start“ button.
- Select the appropriate firmware.

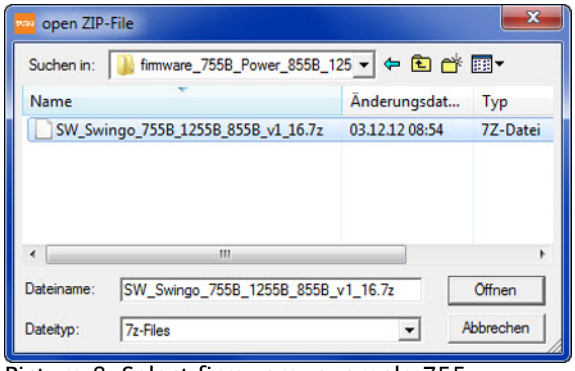
⚠CAUTION *Be aware to select the correct firmware for the machine type.*

- The firmware folder is normally in the same folder as the „Swingo Service Tool – Service Version vX_XX.exe“ file.
- The name of the file starts with the machine type.

Remarks

File name examples: SW_Swingo_350_455_755_v3.04, SW_Swingo_755B_1255B_855B_v1.16, SW_Swingo_1650_1850_V1.09, etc.

- The file format is for all machine types „*.7z“.



Picture 8: Select firmware, example 755

⚠CAUTION *If no file exists in the folder which corresponds to these rules a window pops up and you can select the file you want to download.*

2.6.3 Start download

- After selecting the firmware, your are asked to confirm the download.

Picture 9: Start download

⚠CAUTION *The download starts automatically if:*

- The firmware is in the same folder as the „Swingo Service Tool – Service Version vX_XX.exe“ file.
- The name of the file starts with: „SW_Swingo_350_455_755“ „SW_Swingo_755B_1255B_855B“, SW_Swingo_1650_1850“, „SW_Swingo_XP“ or „SW_Swingo_4000_5000“.
- The file format is „*.7z“.

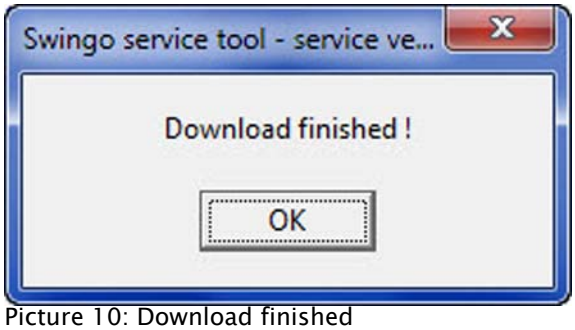
⚠CAUTION *Do not interrupt the firmware download.*

If an interruption of the download happens, try to restart download again.

If it is not possible to restart the download you might need to replace the power electronics.

2.6.4 Download finished

- When the download is finished a window appears.
- The communication to the electronics is now interrupted.



Picture 10: Download finished

⚠CAUTION *Only now the download is finished!*

After the download is completed the machine will switch OFF automatically.

To continue to work with the Service Tool the machine has to be connected again.

2.6.5 Download for TASKI swingo XP/4000/5000

- Before the Service Tool starts to download the firmware to the machine it automatically checks the firmware version of the swingo XP/4000/5000.
- If an old firmware is on the swingo XP/4000/5000 electronics the download tool will read out the counters (hours, cycles, parameters).
- After the download of the firmware the counters will be written back into the electronics again.

⚠CAUTION *After the download is completed the machine will switch OFF automatically.*

To continue to work with the Service Tool the machine has to be connected again.

Always Teach-In (TASKI swingo XP) the values after a download to ensure the correct function.

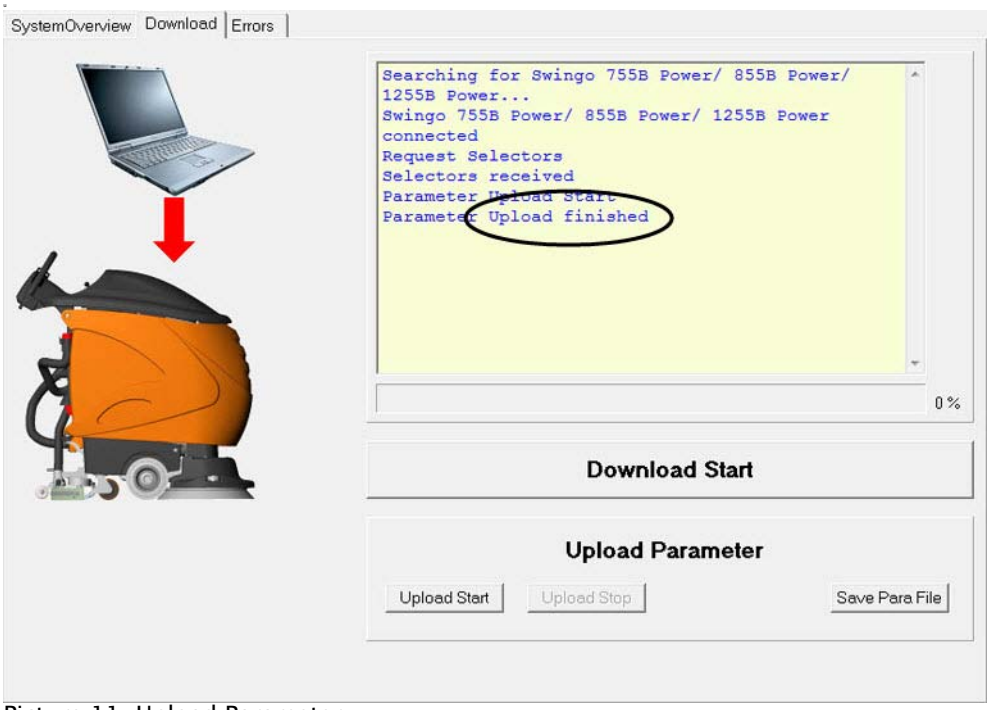
2.7 Parameter file

2.7.1 Upload parameter file

- Press the „Upload Start“ button.
- The Service Tool reads out the parameters from the electronics.
- You see the upload status in the progress bar (takes approximately 10 -15 minutes).

Remarks

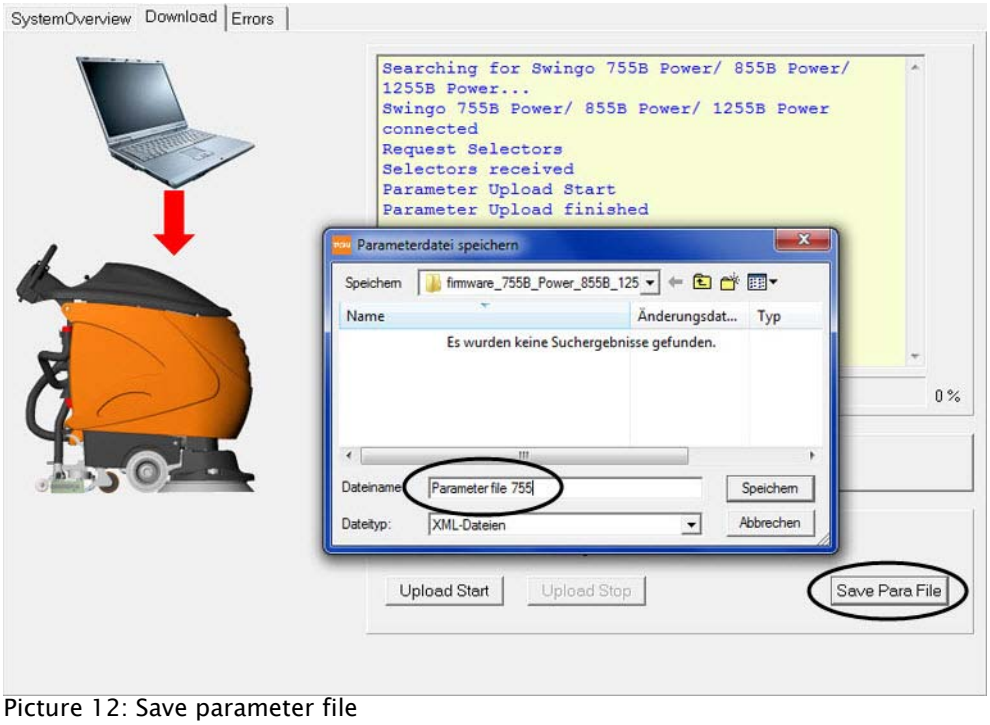
When the upload is finished no window opens. You only see the message „Parameter Upload finished“ in the communication window.



Picture 11: Upload Parameter

2.7.2 Save parameter file

- After the upload is finished the parameters can be saved as *.XML file by pressing the „Save Para File“ button.
- The parameter file can be sent per email or viewed with the internet explorer.
- With the „Upload Stop“ button the upload of the parameter file can be interrupted.



Picture 12: Save parameter file

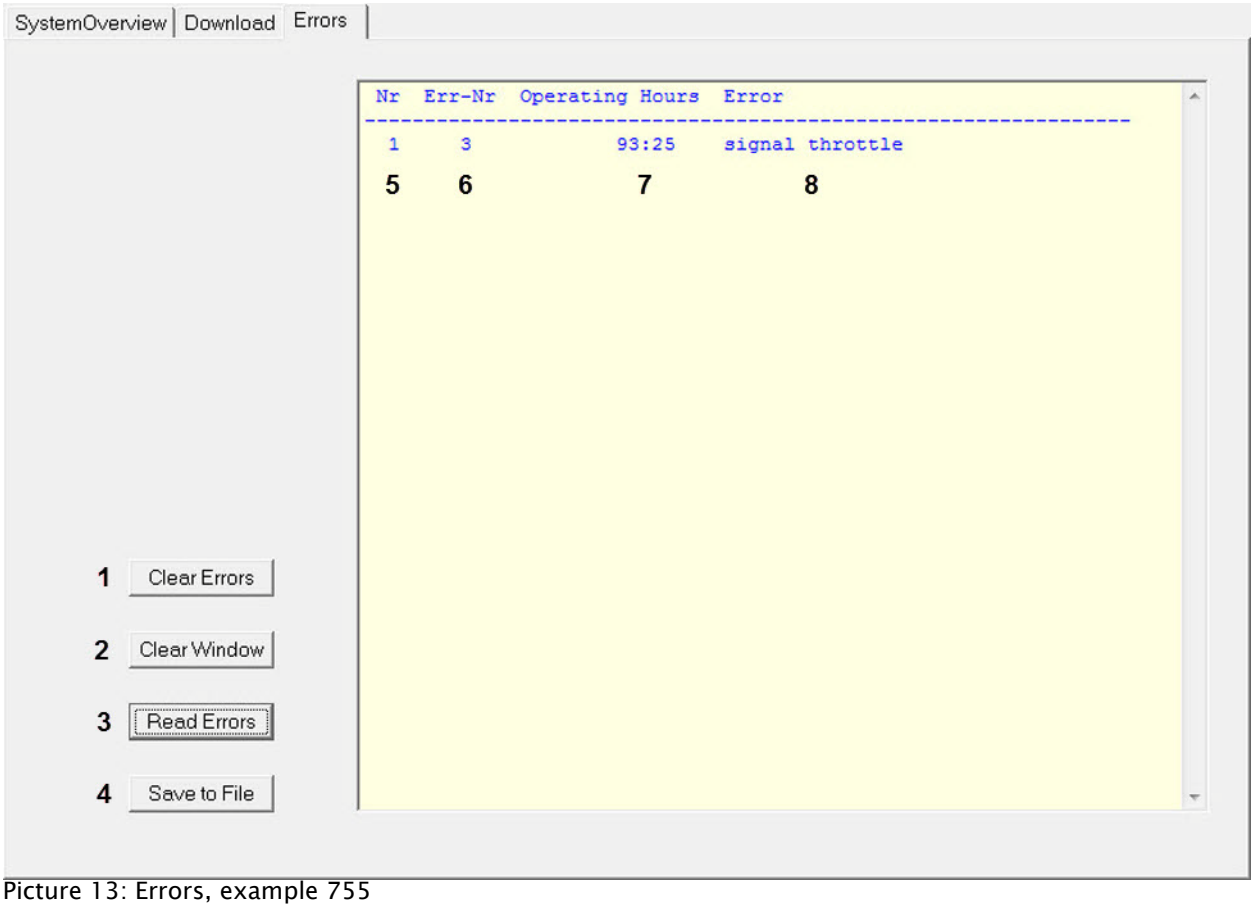
2.8 Errors

2.8.1 Errors folder

⚠CAUTION *This description is meant for all types, which have the possibility of visualising the errors.*

On the TASKI swingo 350/455/1650/1850 it is not available.

Be aware that the naming can vary according to the machine type, following pictures are based on the TASKI swingo 755.



Picture 13: Errors, example 755

Pos.	Name	Description	Remarks
1	„Clear Errors“ button	Clears errors	Can not be reversed
2	„Clear Window“ button	Clears the online window	Clears all information
3	„Read Errors“ button	Reads errors from elec-tronics	Inserts the error list into online window

Table 6: Errors

Pos.	Name	Description	Remarks
4	„Save to File“ button	Allows to save information in online window to file	Will be save into a „txt“ file
5	Nr	Line number	Sequential up to 1024
6	Err-Nr	Error code	Error code according to list
7	Operating Hours	Operating hours [hh.mm]	Same as on display
8	Error	Error description	Short description of error

Table 6: Errors

⚠CAUTION *A reset of the error buffer is definitive and can not be reversed.*

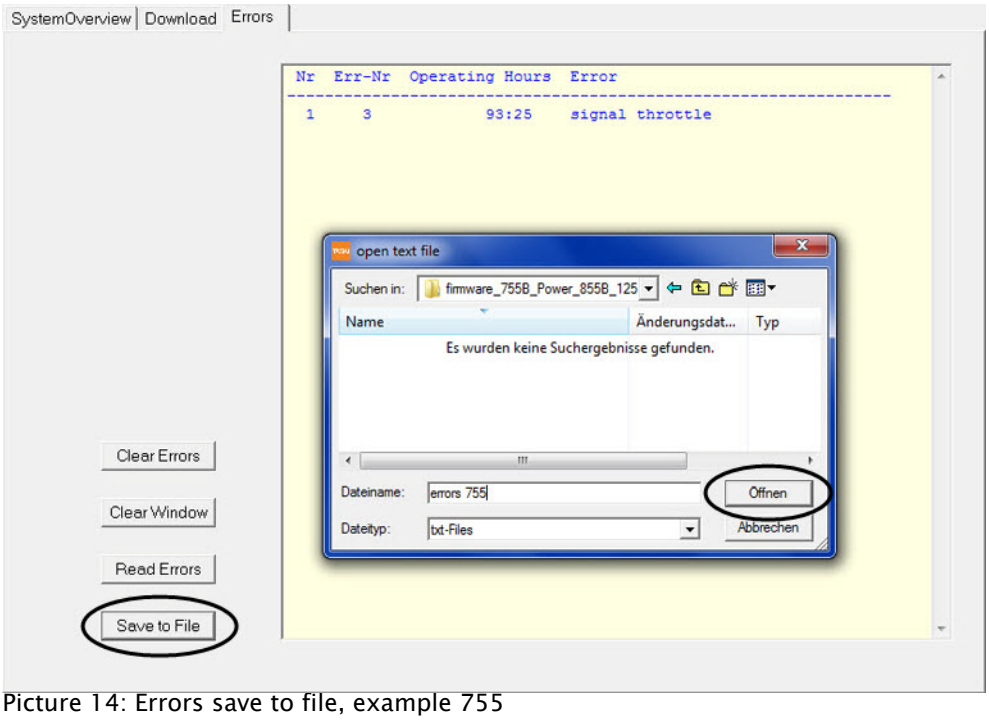
The error list you find in the chapter of each machine type.

2.8.2 Save error file

- You can save the visualised errors of the online window into a file.
- The file format is „*.txt“.

⚠CAUTION *You can only „Save to File“ after you had communication between PC/ Laptop and the electronics and after pressed the „Read Errors“ button.*

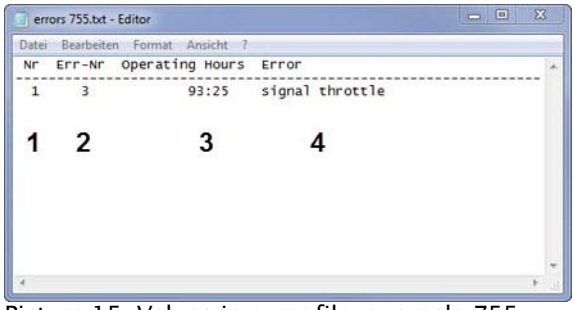
- After pressing the button „Save to File“ a window opens. Here you can select the location and choose a name for the file.
- When you are finished, the file is saved at its location (e.g. errors 755.txt).



Picture 14: Errors save to file, example 755

2.8.3 Values in error file

- When you open up the value file then a text editor window opens.



Picture 15: Values in error file, example 755

Pos.	Name	Description
1	Nr	Line number
2	Err-Nr	Error code
3	Operating Hours	Operating hours [hh.mm]
4	Error	Error description

Table 7: Information to error file

2.9 Install USB driver

2.9.1 USB driver TASKI swingo 350B/455B/755B eco/XP

Following you find the description to install the driver of the upper mentioned machine types.

⚠CAUTION *This procedure can vary as there are a lot of different PC/Laptop configurations.*

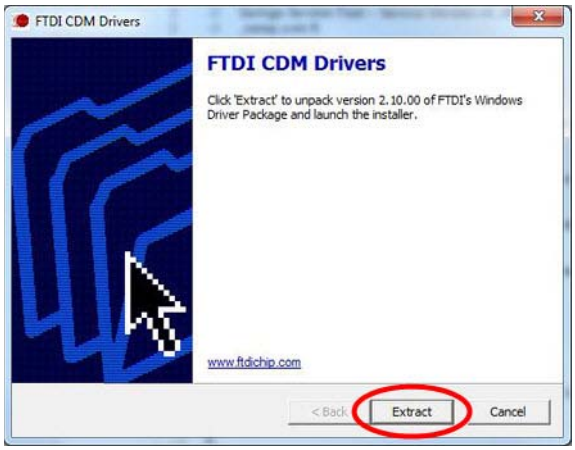
Contact your IT department if you find any problems and report it to your GTS contact.

- Open the required USB driver folder to the machine type.

Remarks

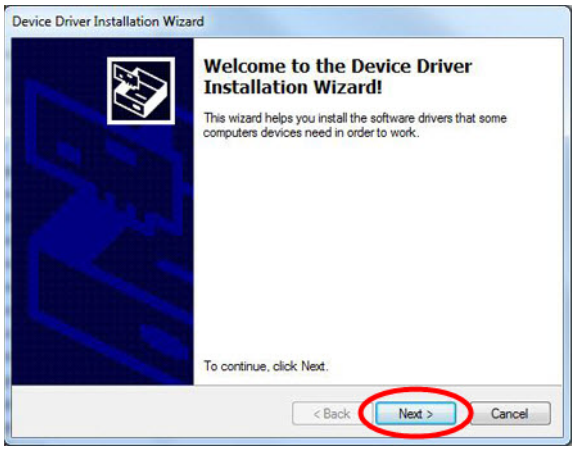
You find these folders in the main Service Tool folder (e.g. „Swingo_Service_Tool_Version_v7_08“).

- Select „.exe“ file in the folder (e.g. „CDM v2.10.00 WHQL Certified.exe“).
- Run the file or double click the selection.
- Press the button „Extract“.



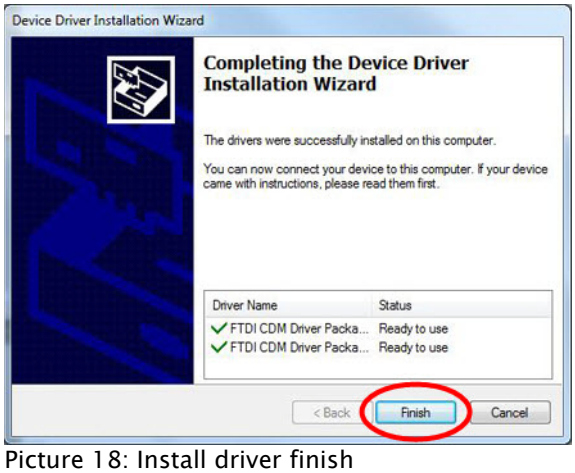
Picture 16: Install driver extract

- Press the button „Next“.



Picture 17: Install driver next

- The driver will be now installed.
- When it is installed you will get a message that it is successfully installed.
- Press the button „Finish“.



Picture 18: Install driver finish

- Now you are ready to connect to the appropriate machine types.

Remarks

For de-installation please contact your IT department.

2.9 Install USB driver

2.9.2 USB driver TASKI swingo 755B power/855B/1255B/1650/1850/4000/5000

Following you find the description to install the driver of the upper mentioned machine types.

⚠CAUTION

This procedure can vary as there are a lot of different PC/Laptop configurations.

Contact your IT department if you find any problems and report it to your GTS contact.

- Open the required USB driver folder to the machine type.

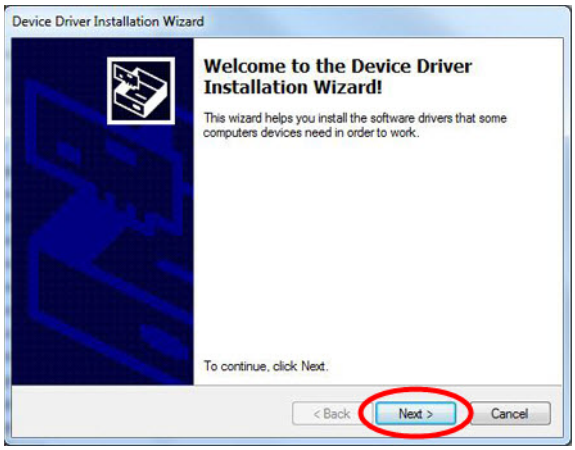
Remarks

You find these folders in the main Service Tool folder (e.g. „Swingo_Service_Tool_Version_v7_08“).

- Select „.exe“ file in the folder (e.g. „Install Driver.exe“).
- Run the file or double click the selection.
- Press the button „Run“.

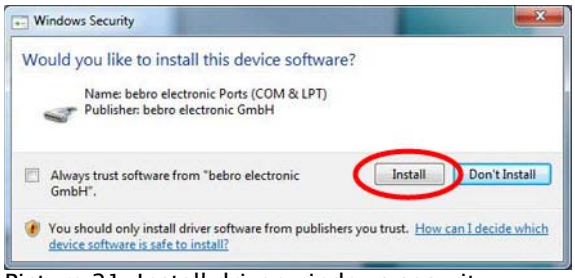
Picture 19: Install driver security

- Press the button „Next“.



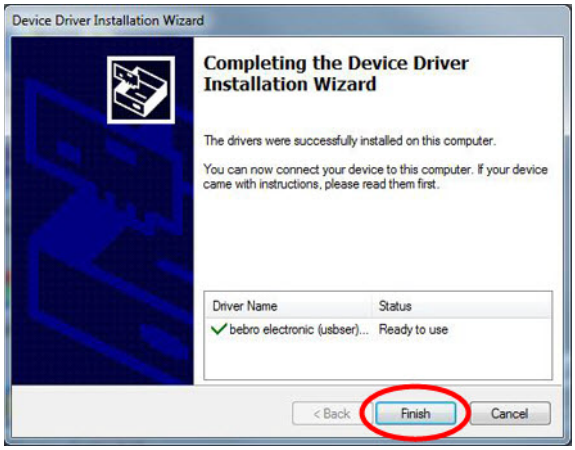
Picture 20: Install driver next

- Another window opens and asks for conformation of device software.
- Press button „Install“.



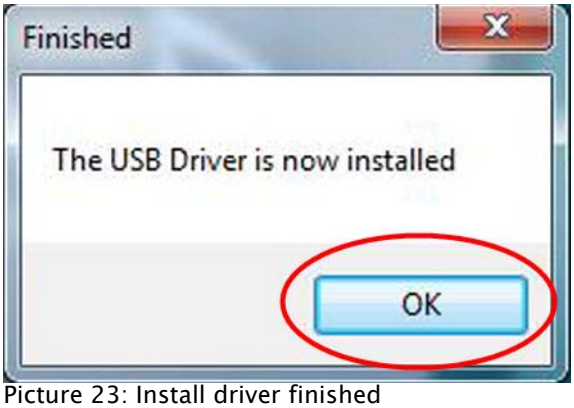
Picture 21: Install driver windows security

- The driver will be now installed.
- When it is installed you will get a message that it is successfully installed.
- Press the button „Finish“.



Picture 22: Install driver finish

- After this a further window opens and informs that it is finished.
- Press the button „OK“.



Picture 23: Install driver finished

- Now you are ready to connect to the appropriate machine types.

Remarks

For de-installation please contact your IT department.

TASKI Service Tool

3 TASKI swingo 350B/455B/755B eco

26. September 2014 Edition: V5.10/2014

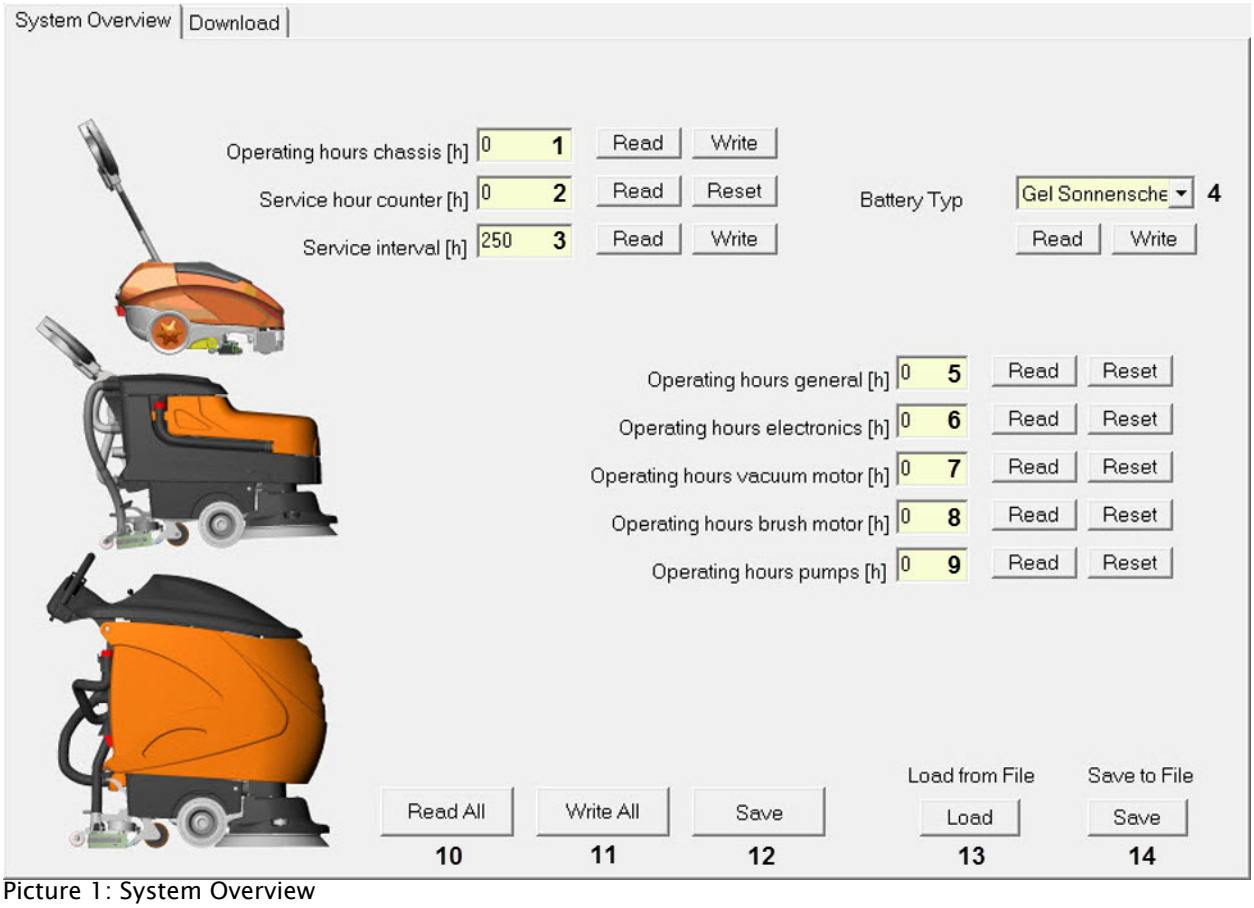
3.1 System Overview

3.1.1 System Overview folder

⚠CAUTION *The following information is only for TASKI swingo 350B/455B/755B eco.*

Be aware that this refers only to 755B eco as of s/n 25357.

- The system overview enable to check:
  - Hours counters.
  - Load and save the counter file.
  - Battery type.



Picture 1: System Overview

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
1	Operating hours chassis	Operating hours		X		X	

Table 1: SystemOverview

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
2	Service hour counter	Service hour counter		X	X		
3	Service interval	Service interval	Default [250]	X		X	Yes
4	Battery type	Battery type discharging curve					Yes
5	Operating hours general	Operating hours general		X	X		Yes
6	Operating hours electronics	Operating hours electronics		X	X		Yes
7	Operating hours vacuum motor	Operating hours vacuum motor		X	X		Yes
8	Operating hours brush motor	Operating hours brush motor		X	X		Yes
9	Operation hours pumps	Operation hours pumps		X	X		Yes
10	„Read All“ button	Read all counters from electronics	Pos. 1 to 9	X			
11	„Write All“ button	Write all counters onto electronics	Pos. 1 to 9			X	Yes
12	„Save“ button	Save values to electronics					Yes
13	„Load“ button	Load counter file	Load values into cache				
14	„Save“ button	Save counter file	Save values into file				

Table 1: SystemOverview

Adjustment

Following additional information to upper table:

Pos. 3, Service hour counter: Service interval between 200 and 900 in steps of 50 hours.

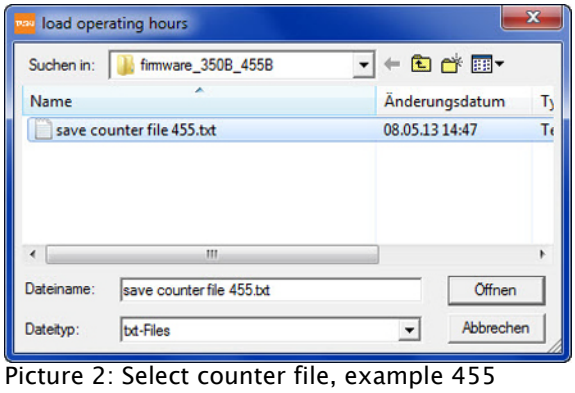
Pos. 4, Battery type: Gel Sonnenschein, XFC Enersys, AGM (Discover), Wet.

3.2 Counter file

The counter file can be used to store the values of the actual counter situation. This can be a help either after a maintenance or when an exchange of the electronics is necessary.

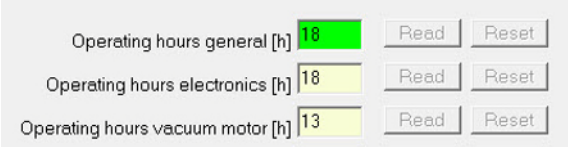
3.2.1 Load counter file

- When you press the „Load“ (No. 13) button, then you are asked to select the appropriate file.



Picture 2: Select counter file, example 455

- The values from the counter file are now visible in the Service Tool.
- These values are NOT in the electronics yet. To write them into the electronics you need to press „Write All“ (No. 11).



Picture 3: Write all, example 455

Remarks

During the writing you see that one value after another changes to a green background.

- When this is finished, then the „Save“ button changes its colour to red.
- Now you need to press the „Save“ button to store the values onto the electronics.

Picture 4: Save values example 455

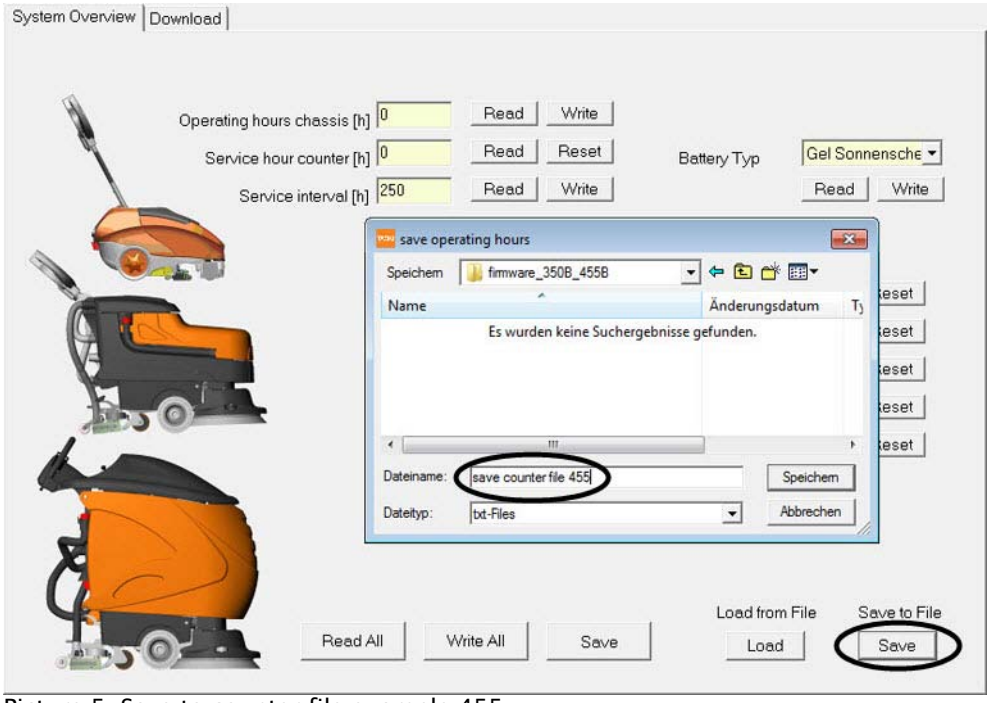
- The „Save“ button changes to the original colour. Now the values are saved on the electronics.

3.2.2 Save counter file

- You can save the visualised values into a file.
- The file format is „*.txt“.

⚠CAUTION *You can only „Save“ after you had communication between PC/Laptop and the electronics and after pressed either one of the „Read“ or the „Read All“ button.*

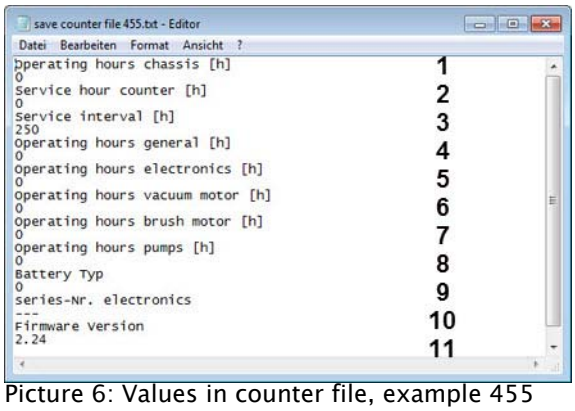
- After pressing the button „Save“ (No. 11) a window opens. Here you can select the location and choose a name for the file.
- When you are finished, the file is saved at its location (e.g. save counter file 455.txt).



Picture 5: Save to counter file example 455

3.2.3 Values in counter file

- When you open up the value file then a text editor window opens.
- Following the values are described.



Picture 6: Values in counter file, example 455

Pos.	Name	Description
1	Operating hours chassis	Total hours
2	Service hour counter	Hours since last service
3	Service interval	Service interval between 200 and 900h (steps of 50 hours)
4	Operating hours general	General hours
5	Operating hours electronics	Hours of electronics
6	Operating hours vacuum motor	Hours of vacuum motor
7	Operating hours brush motor	Hours of brush motor
8	Operating hours pumps	Hours of pumps
9	Battery Typ	Number of which battery type is selected
10	series-Nr. electronics	Serial number of electronics
11	Firmware version	Version number

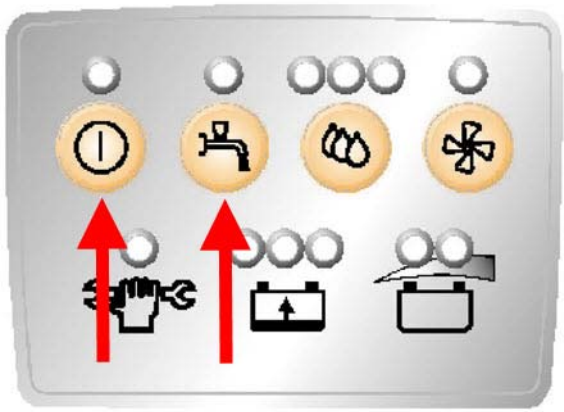
Table 2: Information to counter file

3.3 Dashboard service menu

The TASKI swingo 350B has no other dashboard service menu functionality. There is one exception: reset of the service hour counter.

3.3.1 Reset service hour counter

To reset the service hour counter LED you have to perform the following steps:



Picture 7: Reset service hour LED

- Press the buttons ON/OFF and water ON/OFF together.
- The machine will switch ON.

⚠CAUTION *Ensure that you keep the buttons pressed.*

- Wait until the service LED has blinked twice.
- When service LED stays OFF the service hour counter is reset.

Remarks

You also can reset the service hour counter with the Service Tool online. Please refer to chapter „System Overview“ (pos. 2) of the Service Tool Manual for this and additional explanations.

⚠CAUTION *If the service LED is not ON and you follow this procedure, then you reset the service hour counter.*

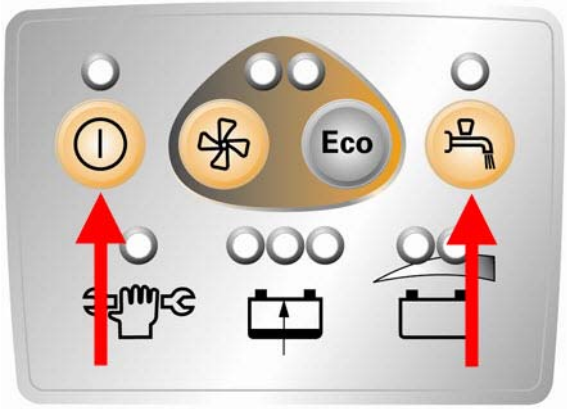
The reason for this: if you carry out a service, even if the LED is not ON, then you have the possibility to reset the service hour counter.

3.3 Dashboard service menu

The TASKI swingo 455B has no other dashboard service menu functionality. There is one exception: reset of the service hour counter.

3.3.2 Reset service hour counter

To reset the service hour counter LED you have to perform the following steps:



Picture 8: Dashboard foil service LED reset

- Press the buttons ON/OFF and water ON/OFF together.
- The machine will switch ON.

⚠CAUTION *Ensure that you keep the buttons pressed.*

- Wait until the service LED has blinked twice.
- When service LED stays OFF the service hour counter is reset.

Remarks

You also can reset the service hour counter with the Service Tool online. Please refer to chapter „System Overview“ (pos. 2) of the Service Tool Manual for this and additional explanations.

⚠CAUTION *If the service LED is not ON and you follow this procedure, then you reset the service hour counter.*

The reason for this: if you carry out a service, even if the LED is not ON, then you have the possibility to reset the service hour counter.

3.3 Dashboard service menu

The TASKI swingo 755B eco has no dashboard service menu functionality. There is one exception: reset of the service hour counter.

3.3.3 Reset service hour counter

To reset the service hour counter LED you have to perform the following steps:

Picture 9: Reset service hour LED

- Press the buttons ON/OFF and water ON/OFF together.
- The machine will switch ON.

⚠CAUTION *Ensure that you keep the buttons pressed.*

- Wait until the service LED has blinked twice.
- When service LED stays OFF the service hour counter is reset.

Remarks

You also can reset the service hour counter with the Service Tool online. Please refer to chapter „System Overview“ (pos. 2) of the Service Tool Manual for this and additional explanations.

⚠CAUTION *If the service LED is not ON and you follow this procedure, then you reset the service hour counter.*

The reason for this: if you carry out a service, even if the LED is not ON, then you have the possibility to reset the service hour counter.

TASKI Service Tool

4 TASKI swingo 755B power/855B power/1255B

26. September 2014 Edition: V5.10/2014

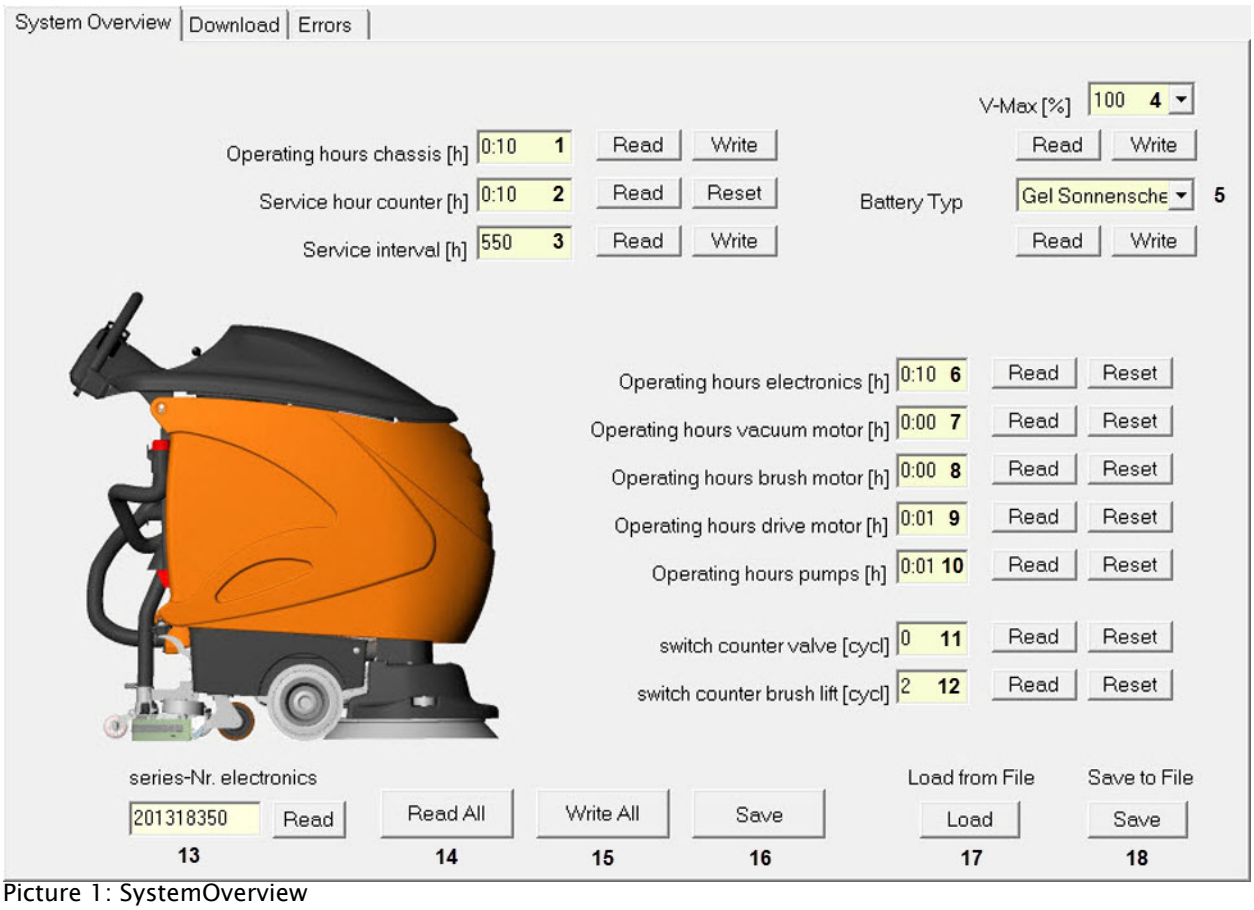
4.1 System Overview

4.1.1 System Overview folder

⚠CAUTION *The following information is only for TASKI swingo 755B power/855B power/1255B.*

- The system overview enables to check:
  - Hour counters.
  - Switching counters.
  - Load and save the counter file.
  - Battery type.

ST.04.10 system overview - 755B power_855B power_1255B_V1.01.fm



Picture 1: SystemOverview

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
1	Operating hours chassis	Operating hours		X		X	

Table 1: SystemOverview

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
2	Service hour counter	Service hour counter		X	X		
3	Service interval	Service interval	Default [550]	X		X	Yes
4	V-Max [%]	Machine speed	Default [100]	X		X	Yes
5	Battery Typ	Battery type discharging curve					Yes
6	Operating hours electronics	Operating hours electronics		X	X		Yes
7	Operating hours vacuum motor	Operating hours vacuum motor		X	X		Yes
8	Operating hours brush motor	Operating hours brush motor		X	X		Yes
9	Operating hours drive motor	Operating hours drive motor		X	X		Yes
10	Operation hours pumps	Operation hours pumps		X	X		Yes
11	switch counter valve	switch counter valve	switching ON/OFF	X	X		Yes
12	switch counter brush lift	switch counter brush lift	switching UP/ DOWN	X	X		Yes
13	series-Nr. electronics	Number of electronics		X			
14	„Read All“ button	Read all counters from electronics	Pos. 1 to 12	X			
15	„Write All“ button	Write all counters onto electronics	Pos. 1 to 12			X	Yes
16	„Save“ button	Save values to electronics					Yes
17	„Load“ button	Load counter file	Load values into cache				
18	„Save“ button	Save counter file	Save values into file				

Table 1: SystemOverview

Adjustment

Following additional information to upper table:

Pos. 3, Service interval: Service interval between 200 and 900 in steps of 50 hours.

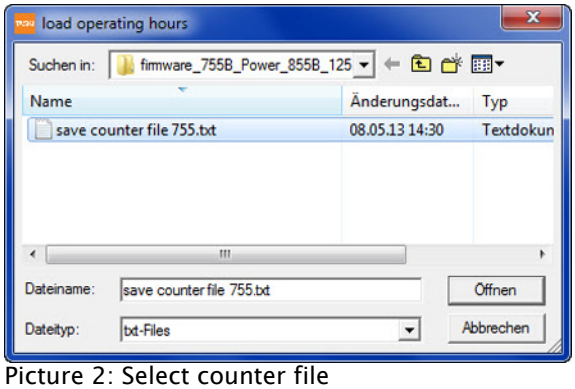
Pos. 5, Battery type: GEL Sonnenschein, XFC Enersys, AGM (Discover), Wet.

4.2 Counter file

The counter file can be used to store the values of the actual counter situation. This can be a help either after a maintenance or when an exchange of the electronics is necessary.

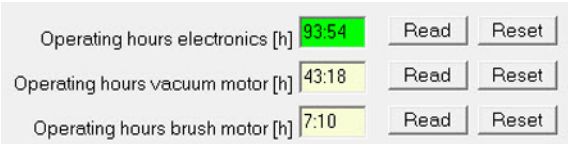
4.2.1 Load counter file

- When you press the „Load“ (No. 17) button, then you are asked to select the appropriate file.



Picture 2: Select counter file

- The values (No. 1 to 12) from the counter file are now visible in the Service Tool.
- These values are NOT in the electronics yet. To write them into the electronics you need to press „Write All“ (No. 15).



Picture 3: Write all

Remarks

During the writing you see that one value after another changes to a green background.

- When this is finished, then the „Save“ button changes its colour to red.
- Now you need to press the „Save“ button to store the values onto the electronics.

Picture 4: Save values

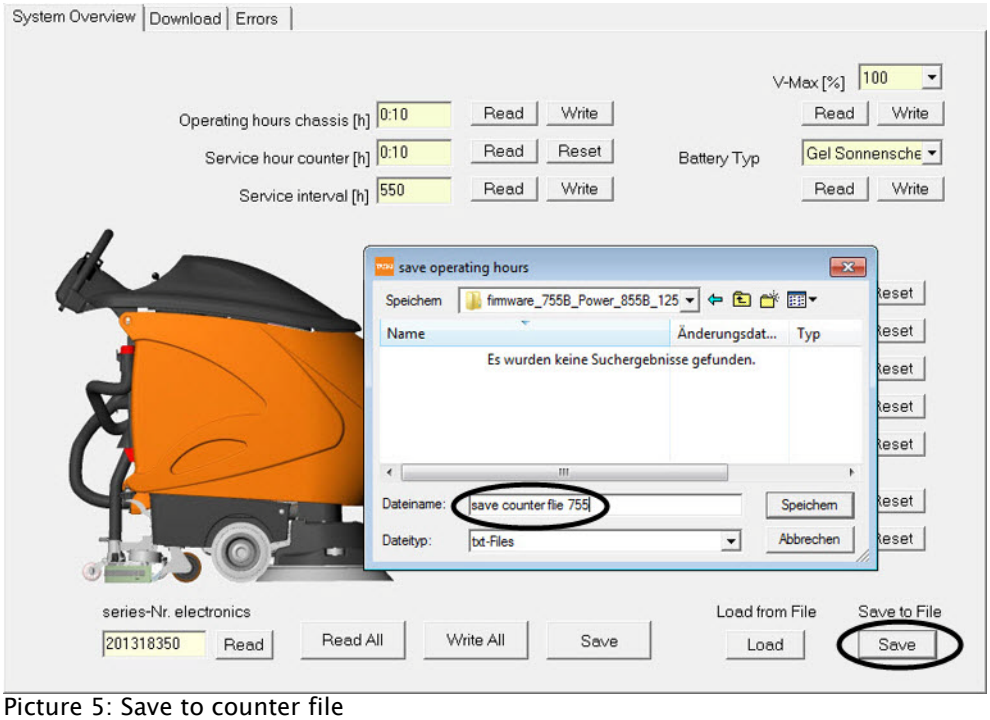
- The „Save“ button changed to the original colour. Now the values are saved on the electronics.

4.2.1 Save counter file

- You can save the visualised values into a file.
- The file format is „*.txt“.

⚠CAUTION *You can only „Save“ after you had communication between PC/Laptop and the electronics and after pressed either one of the „Read“ or the „Read All“ button.*

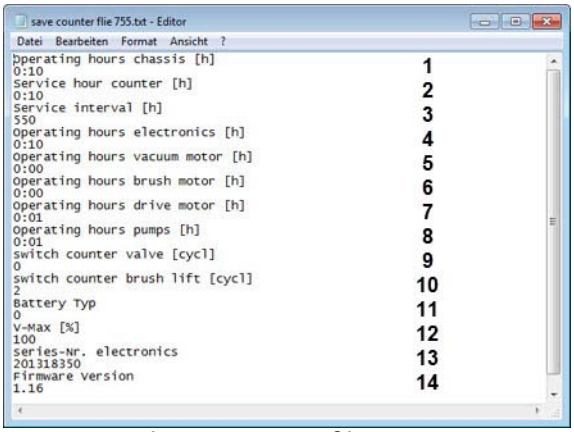
- After pressing the button „Save“a window opens. Here you can select the location and choose a name for the file.
- When you are finished, the file is save at its location (e.g. save counter file 755.txt).



Picture 5: Save to counter file

4.2.2 Values in counter file

- When you open up the value file then a text editor window opens.
- Following the values are described.



Picture 6: Values in counter file

Pos.	Name	Description
1	Operating hours chassis	Total hours
2	Service hour counter	Hours since last service
3	Service interval	Service interval between 200 and 900h (steps of 50 hours)
4	Operating hours electronics	Hours of electronics
5	Operating hours vacuum motor	Hours of vacuum motor
6	Operating hours brush motor	Hours of brush motor
7	Operating hours drive motor	Hours of drive motor
8	Operating hours pumps	Hours of pumps
9	switch counter valve	Counter for ON/OFF of valve
10	switch counter brush lift	Counter for UP/DOWN of brush lift
11	Battery Typ	Number of which battery type is selected
12	V-Max	Adjusted speed of machine between 50 and 100 (steps of 10%)
13	series-Nr. electronics	Serial number of electronics
14	Firmware version	Version number

Table 2: Information to counter file

4.3 Error codes

4.3.1 Error codes overview

Remarks

The generated error codes will be written into the error buffer.

Error codes	Function	Control	Machine status	Display information
001	Battery voltage	The voltage of the battery has past the lower limit. The battery status reset takes place if 25.4VDC is available for more than 10 seconds.		n.a.
002	Watchdog telegram	Electronics received no or wrong answer protocol from the dashboard.		n.a.
003	Signal throttle	Broken wire of throttle signal.		n.a.
004	Over temperature drive motor	Over temperature has been reached. The drive motor is limited to the lower current limit.		n.a.
005	Over temperature brush motor	Over temperature has been reached. The drive motor is limited to the lower current limit.		n.a.
006	Over temperature vacuum motor	Over temperature has been reached. The drive motor is limited to the lower current limit.		n.a.

Table 3: Error codes overview

Error codes	Function	Control	Machine status	Display information
007	Over temperature brush motor	Over temperature has been reached. The drive motor is limited to the lower current limit.		n.a.
008	Over current drive motor	Drive motor reached the max. current and was reduced to lower limit.		n.a.
009	Short circuit drive motor	Short circuit has been detected.		n.a.
010	Time out brush pressure	No change of brush pressure signal during movement of brush lowering motor.		n.a.
011	Switch of electrical brush lowering	Switch does not react when going up.		n.a.
012	Switch of electrical brush lowering	Switch does not react when going down.		n.a.
013	Parameter CRC	Wrong parameter has been detected.		n.a.
014	Parameter format	Wrong parameter format has been detected.		n.a.
015	Parameter length	Wrong length of parameter has been detected.		n.a.
016	Current brush motor	Low current (short circuit) of brush motor has been detected.		n.a.
017	Brush lowering type	Brush lowering (mechanical or electrical) does not fit.		n.a.
018	Over temperature detector 3	Over temperature on detector 3 has been detected		n.a.

Table 3: Error codes overview

4.4 Dashboard service menu

The TASKI swingo 755B power, 855B power and 1255B have no dashboard service menu functionality. There is one exception: reset of the service hour counter.

4.4.1 Reset service hour counter

To reset the service hour counter LED you have to perform the following steps:

Picture 7: Reset service hour LED

- Switch ON the machine.
- Service hour counter LED has to be ON.
- Press the buttons dosing (+) and dosing (-) until the service LED switches OFF.
  - After approximately 3 seconds it starts flashing.
  - Flashing stops after approximately 2 seconds.
  - Service hour counter is reset.

Remarks

You also can reset the service hour counter with the Service Tool online. Please refer to chapter „System Overview“ (pos. 2) of the Service Tool Manual for this and additional explanations.

⚠CAUTION *If the service LED is not ON and you follow this procedure, then you reset the service hour counter.*

The reason for this: if you carry out a service, even if the LED is not ON, then you have the possibility to reset the service hour counter.

TASKI Service Tool

5 TASKI swingo 1650B/1850B

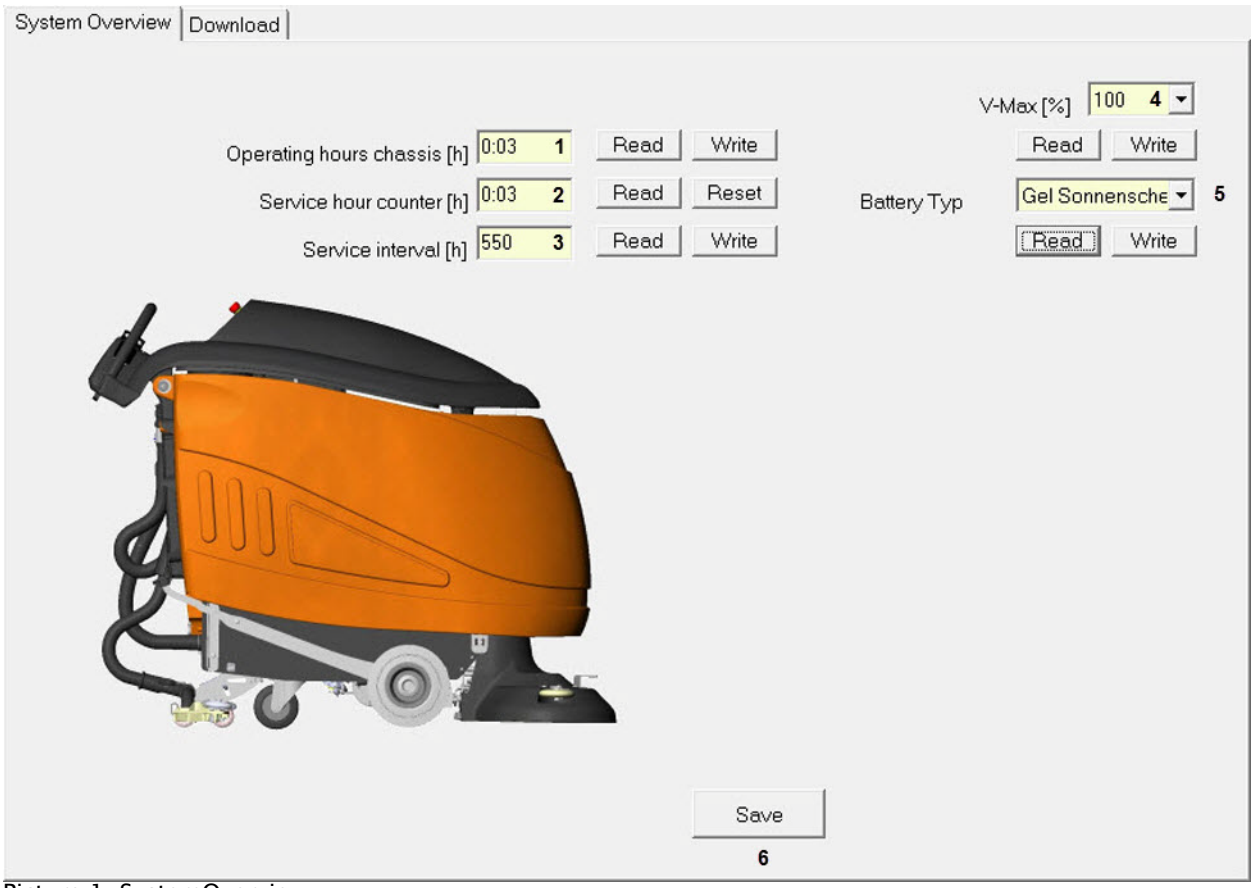
26. September 2014 Edition: V5.10/2014

5.1 System Overview

5.1.1 System Overview folder

⚠CAUTION *The following information is only for TASKI swingo 1650B/1850B.*

- The system overview enables to check:
  - Hour counters.
  - Speed adjustment
  - Battery type.



ST.05.10 system overview - 1650B_1850B_V1.00.fm

Picture 1: SystemOverview

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
1	Operating hours	Operating hours		X		X	
2	Service hour counter	Service hour counter		X	X		

Table 1: Service

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
3	Service interval	Service interval	Default [550]	X		X	Yes
4	V-Max [%]	Machine speed	Default [100]	X		X	Yes
5	Battery Typ	Battery type discharging curve		X		X	Yes
6	„Save“ button	Save values to electronics					Yes

Table 1: Service

Adjustment

Following additional information to upper table:

Pos. 3, Service hour counter: Service interval between 200 and 900 in steps of 50 hours.

Pos. 4, V-Max: Machine speed can be adjusted between 50 and 100% in steps of 10%.

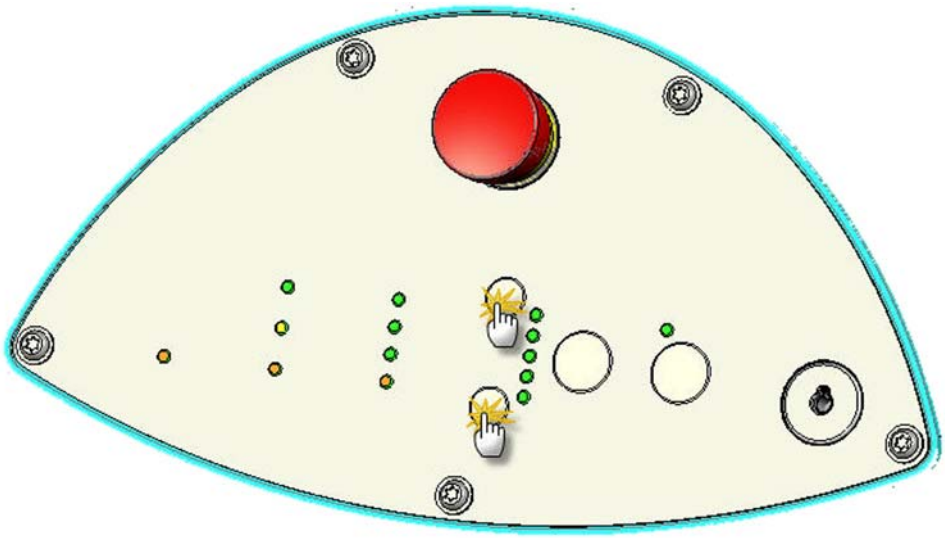
Pos. 5, Battery type: GEL Sonnenschein, XFC Enersys, AGM (Discover), Wet.

5.2 Dashboard service menu

The TASKI swingo 1650B and 1850B have no dashboard service menu functionality. There is one exception: reset of the service hour counter.

5.2.1 Reset service hour counter

To reset the service hour counter LED you have to perform the following steps:



Picture 2: Reset service hour LED

- Switch ON the machine.
- Service hour counter LED has to be ON.
- Press the buttons dosing (+) and dosing (-) until the service LED switches OFF.
  - After approximately 3 seconds it starts flashing.
  - Flashing stops after approximately 2 seconds.
  - Service hour counter is reset.

Remarks

You also can reset the service hour counter with the Service Tool online. Please refer to chapter „System Overview“ (pos. 2) of the Service Tool Manual for this and additional explanations.

⚠CAUTION *If the service LED is not ON and you follow this procedure, then you reset the service hour counter.*

The reason for this: if you carry out a service, even if the LED is not ON, then you have the possibility to reset the service hour counter.

TASKI Service Tool

6 TASKI swingo XP/XP-M/XP-R

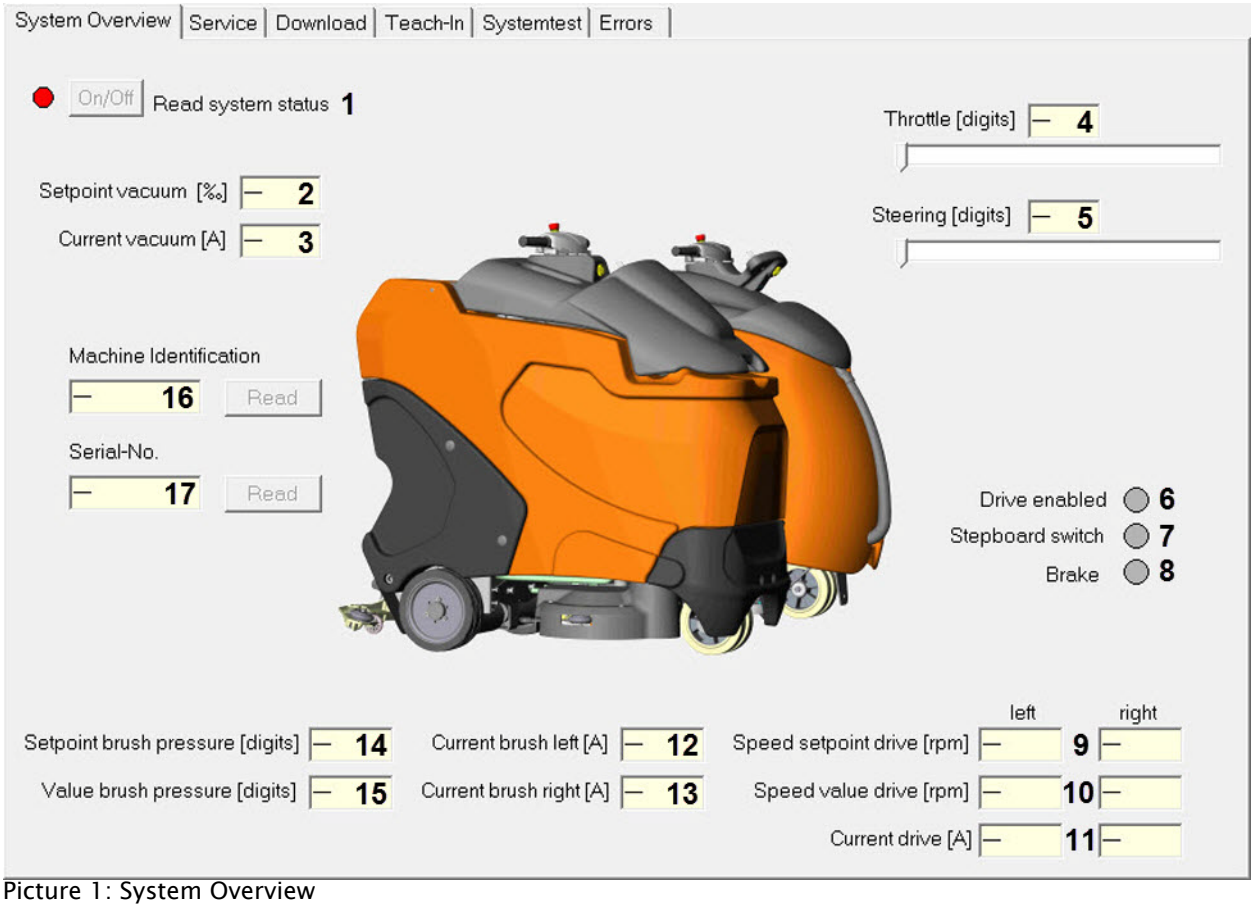
26. September 2014 Edition: V5.10/2014

6.1 System Overview

6.1.1 System Overview folder

⚠CAUTION *The following information is only for TASKI swingo XP/XP-M/XP-R.*

- The system overview enables to read out the actual values and therefore verify if the micro controllers are working correctly.



Picture 1: System Overview

Pos.	Name	Description	Remarks
1	Read system status	Activate actual values	Turn online reading ON/ OFF
2	Setpoint vacuum [‰]	Target value	Working, setpoint = 1000 ECO mode, setpoint = 600 ECO mode is driving speed related
3	Current vacuum [A]	Actual current value	

Table 1: System Overview

Pos.	Name	Description	Remarks
4	Throttle [digits]	Actual value of throttle	FW max. = 1000 digits BW max. = 0 digits
5	Steering [digits]	Actual value of steering	Left max.= 0 digits Right max. = 1000 digits
6	Drive enabled	Drive enabled when throttle value OK and in middle	Green dot = activated Red dot = not activated
7	Step board switch	Check if someone is standing on machine (micro switch)	Green dot = activated Red dot = not activated
8	Brake	Brake release signal from controller	Green dot = activated Red dot = not activated No control of brake release switch
9	Speed setpoint drive left/right [rpm]	Target values	Speed setpoint drive values based on throttle values for LH/RH motor
10	Speed value drive left/right [rpm]	Actual values	Measured speed which is regulated according to the target values for LH/RH motor
11	Current drive left/right [A]	Actual motor current	Measured current of the LH/RH drive motor
12	Current brush left [A]	Actual motor current	Measured current of the LH brush motor
13	Current brush right [A]	Actual motor current	Measured current of the RH brush motor
14	Setpoint brush pressure [digits]	Target value	Setpoint brush unit: Switch on = 340 digits Level 1 = 350 digits Level 2 = 480 digits Level 3 = 600 digits BW drive = 340 digits In coupling = 550 digits (only for XP-R)
15	Value brush pressure [digits]	Actual value	Measured pressure which is regulated according to the target values for brush pressure.
16	Machine Identification	Number of identification	Is not on all available yet.
17	Serial-No.	Serial number	Is not on all available yet.

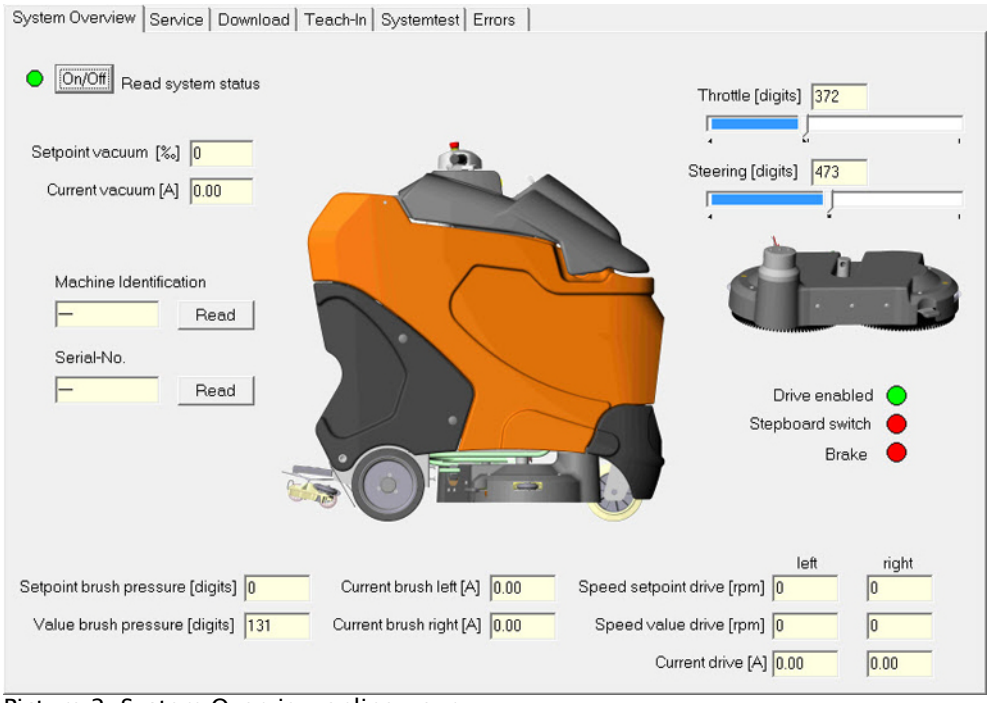
Table 1: System Overview

Remarks

Pos. 12/13 show each the total value on XP-R as one motor is connected to both outputs.

6.1.1 System Overview - Online

- After pressing the „ON/OFF“ button you are online with the power electronics.
- You see the actual values from the power electronics.



Picture 2: System Overview online xp-r

Remarks

According to which machine you have connected the picture of the machine and brush unit can vary.

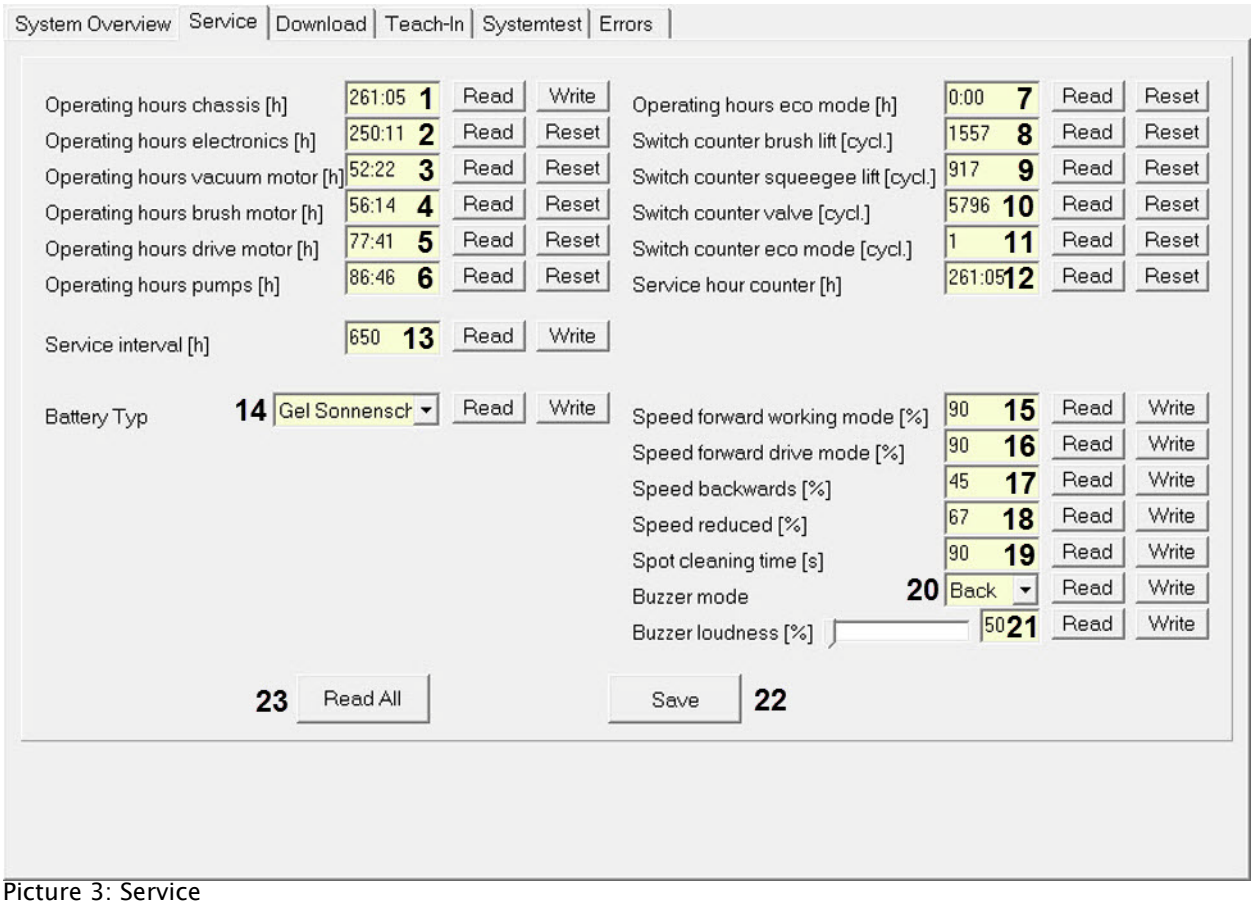
In this case you see the TASKI swingo XP-R.

6.2 Service

6.2.1 Counter, machine configuration

⚠CAUTION *The following information is only for TASKI swingo XP/XP-M/XP-R.*

- The service folder enables to check:
  - Hour counters.
  - Switching counters.
  - Speed adjustment.
  - Battery type.



Picture 3: Service

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
1	Operating hours chassis [h]	Operating hours of machine	Format = hhhh:mm	X		X	

Table 2: Service

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
2	Operating hours electronics [h]	Operating hours of electronics	Format = hhhh:mm	X	X		
3	Operating hours vacuum motor [h]	Operating hours of vacuum motor	Format = hhhh:mm	X	X		
4	Operating hours brush motor [h]	Operating hours of brush motors	Format = hhhh:mm	X	X		
5	Operating hours drive motor [h]	Operating hours of drive motor	Format = hhhh:mm	X	X		
6	Operating hours pumps [h]	Operating hours of pump	Format = hhhh:mm	X	X		
7	Operating hours eco mode [h]	Operating hours of eco mode	Format = hhhh:mm	X	X		
8	Switch counter brush lift [cycl.]	Counter of brush lifting motor movements	1 cycle = brush down and up	X	X		
9	Switch counter squeegee lift [cycl.]	Counter of squeegee lifting motor movements	1 cycle = squeegee lifting motor down and up	X	X		
10	Switch counter valve [cycl.]	Counter of valve cycles	1 cycle = switch water ON and OFF	X	X		
11	Switch counter ECO mode [cycl.]	Counter of ECO cycles	1 cycle = switch ECO ON and OFF Switch ON/OFF spot cleaning will not be counted.	X	X		
12	Service hour counter [h]	Service hour counter	Format = hhhh:mm	X	X		
13	Service interval [h]	Service interval until LED turns ON	Default [650]	X		X	Yes
14	Battery Typ	Battery type discharging curve		X		X	Yes
15	Speed forward working mode [%]	Maximum working speed	Default [90] min. 20, max. 100	X		X	X
16	Speed forward drive mode [%]	Maximum drive speed	Default [90] min. 20, max. 100	X		X	Yes
17	Speed backwards [%]	Maximum speed backwards	Default [40] min. 20, max. 40	X		X	Yes
18	Speed reduced [%]	Maximum speed reduced	Default [50] min. 45, max. 67	X		X	X
19	Spot cleaning time [s]	Timer for spot cleaning	Default [90] min. 0, max. 1000	X		X	X

Table 2: Service

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
20	Buzzer mode	When machine is beeping	Default [Off] Off, Back, For+Back	X		X	X
21	Buzzer loudness [%]	Change noise level of buzzer	Default [50] min. 50, max. 100	X		X	X
22	„Read All“ button	Read all counters from electronics	Pos. 1 to 21	X			
23	„Save“ button	Save values onto electronics	From cache onto electronics				

Table 2: Service

Adjustment

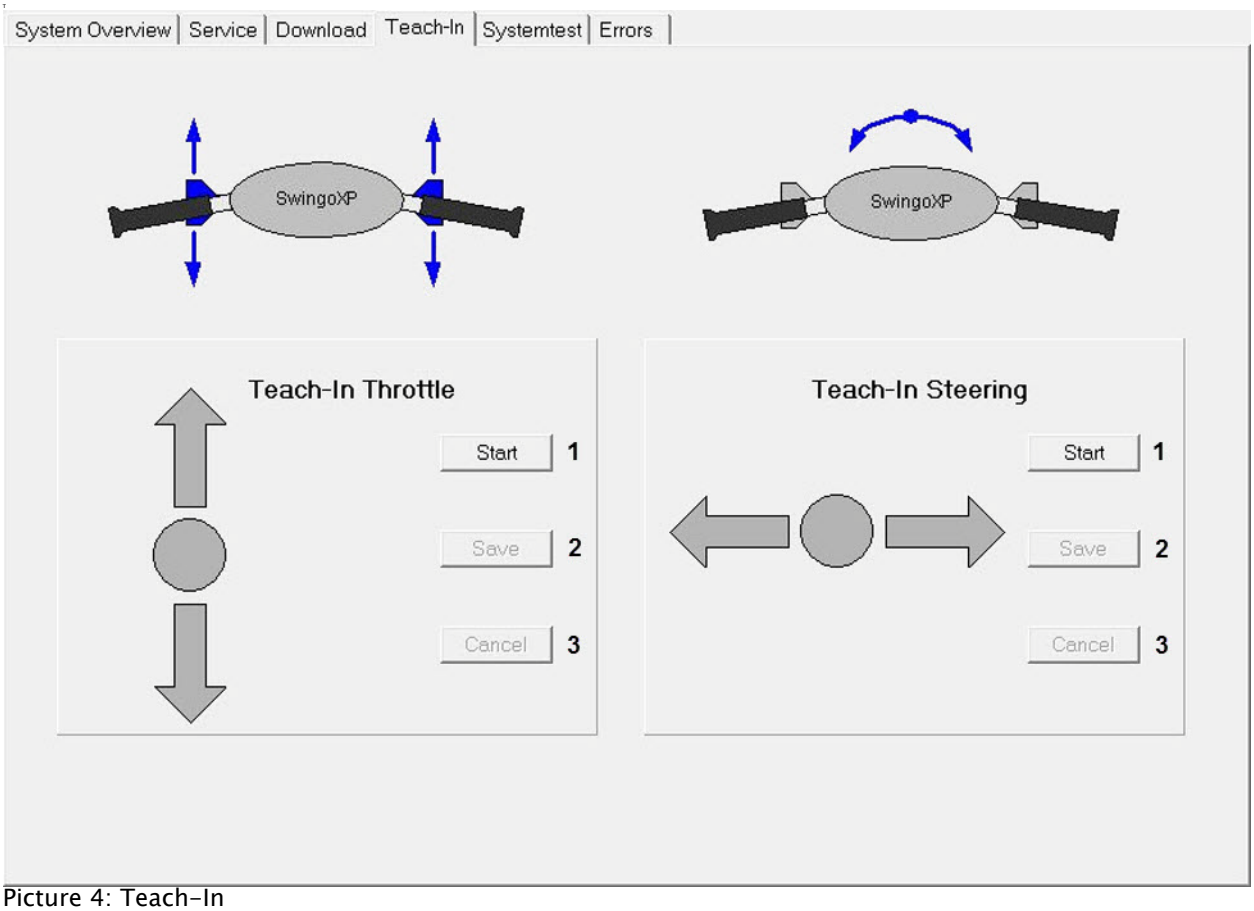
Following additional information to upper table:

Pos. 12, Service hour counter: Service interval between 200 and 900 in steps of 50 hours.

Pos. 14, Battery type: GEL Sonnenschein, XFC Enersys, AGM (Discover), Wet.

6.3 Teach-In

6.3.1 Teach-In overview



Picture 4: Teach-In

Pos.	Name	Description
1	„Start“ button	Begin of teach-in routine
2	„Save“ button	Save of teach-in values
3	„Cancel“ button	Stop of teach-in process without changing values.

Table 3: Teach-In

6.3.2 Teach-In guidance and throttle

⚠CAUTION *Due to a plausibility check it should not be possible to teach-in completely wrong values.*

After replacing of one of the electronic components the guidance and

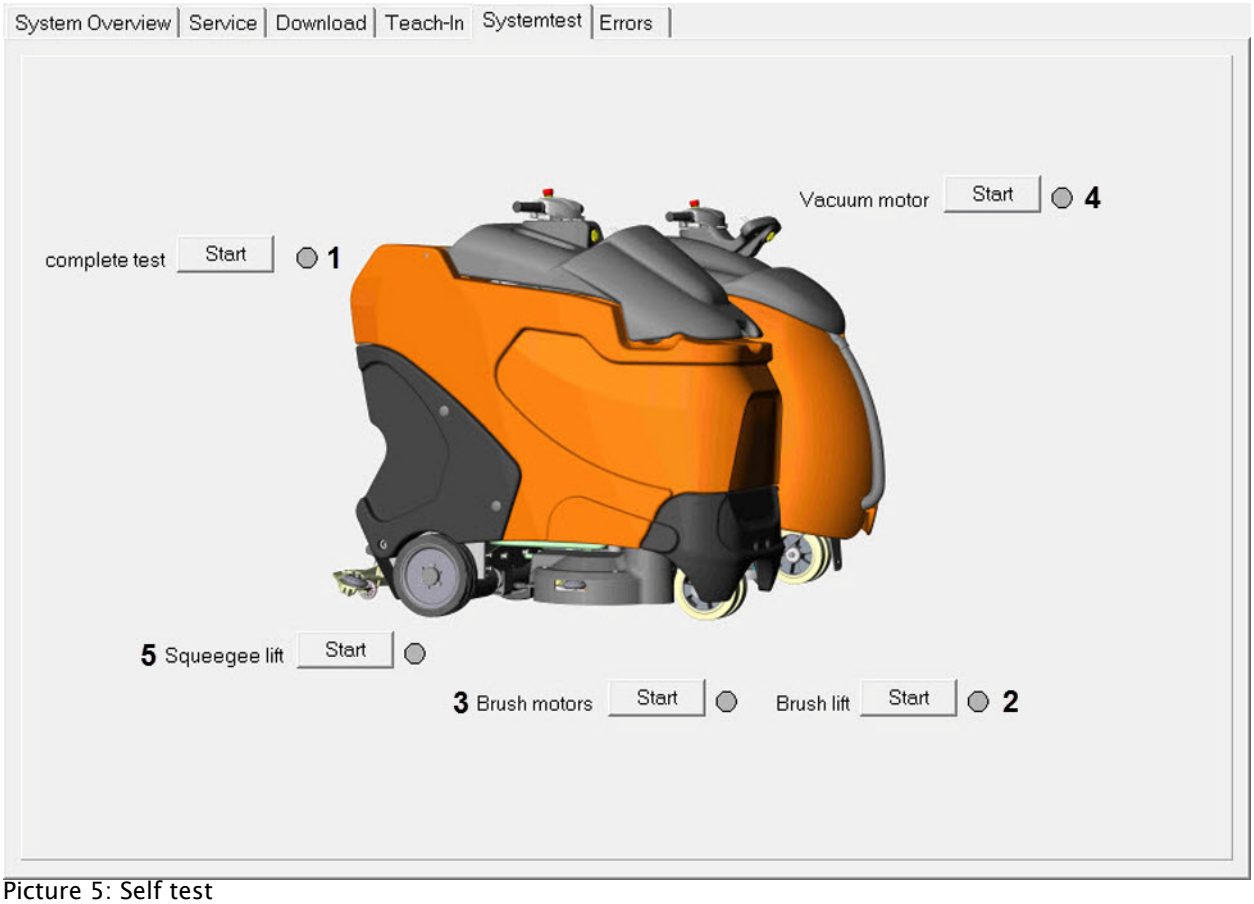
throttle values have to be teached-in again.

- Press start button.
- Follow the menu by positioning the guidance/throttle according to the instructions (arrow).
- Save the values by pressing the save button.

⚠CAUTION *The teach-in can be stopped by pressing the cancel button.*

6.4 Self test

6.4.1 Self test overview



ST.06.13 self test - XP_V1.01.fm

Picture 5: Self test

Pos.	Name	Description
1	complete test	Start complete machine test Sequence is: • Brush lifting motor • Brush motor • Vacuum motor • Squeegee lifting motor
2	Brush lift	Start of brush lifting motor test (not complete test)
3	Brush motors	Start of brush motors test (not complete test)
4	Vacuum motor	Start of vacuum motor test (not complete test)
5	Squeegee lift	Start of squeegee lifting motor test (not complete test)

Table 4: Self test

6.4.2 Self test

⚠CAUTION *A power supply interruption of an aggregate can be detected.*

No over currents are checked during the self test.

- Following aggregates are checked:
  - Brush lifting motor.
  - Brush motors.
  - Vacuum motor.
  - Squeegee lifting motor.

6.4.3 Start complete self test

- Stand on the machine to activate the step board switch.
- Press „Start“ button of complete test.
- The machine performs the self test.
- Following aggregates will be activated during the test:
  - Brush lifting motor.
  - Brush motor.
  - Vacuum motor.
  - Squeegee lifting motor.
- If an aggregate is okay a green dot will light up.
- If an aggregate is not okay a red dot will light up.

⚠CAUTION *No error messages will be displayed other than the dot (red or green).*

The error messages can be checked in the errors folder.

6.4.4 Start individual self test

- Stand on the machine to activate the step board switch.
- Press „Start“ button of the test you want to perform.
- The machine performs the test.
- If the aggregate is okay a green dot will light up.
- If the aggregate is not okay a red dot will light up.

6.5 Error codes

6.5.1 Error codes overview

Remarks

The generated error codes will be written into the error buffer.

Error codes	Function	Control	Only self test	Machine status	Display information (during ON status)
E003	Brush lifting motor	During self test no load at the brush lifting motor was detected.	X		
E004	Brush pressure	During self test or operation no change of the brush pressure was detected. The brush pressure value is to big or to small (<50 or >950 digits).	(X)		
E005	Brush motor 1	During self test no load was detected at brush motor 1 or the current of the brush motor 2 is 50% bigger then the current of brush motor 1.	X		

Table 5: Error codes overview

Error codes	Function	Control	Only self test	Machine status	Display information (during ON status)
E006	Brush motor 2	During self test no load was detected at brush motor 2 or the current of the brush motor 1 is 50% bigger then the current of brush motor 2.	X		
E007	Vacuum motor	During self test no load at vacuum motor was detected.	X		
E008	Squeegee lifting motor	During self test no load at squeegee lifting motor was detected.	X		
E010	Signal_throttle	Short circuit or broken wire of throttle signal. The throttle signal value is to big or to small (<50 or >950 digits).		SAFE	
E011	Signal_guidance	Short circuit or broken wire of guidance signal. The guidance signal value is to big or to small (<50 or >950 digits).		SAFE	
E014	Brush_pressure	Short circuit or broken wire of brush pressure signal. The brush pressure signal value is to big or to small (<50 or >950 digits).			
E020	Battery voltage	The battery voltage dropped below lower limit. The battery status voltage reset takes place if 25.4V is available for more then 10 seconds.			X
E030	Over temperature	Power electronics temperature has reached 70°C and therefore the drive motor is limited to the lower current limit of 25A.			
E031	Switch off temperature	Power electronics temperature has reached 80°C.			X

Table 5: Error codes overview

Error codes	Function	Control	Only self test	Machine status	Display information (during ON status)
E040	Over current brush motor	Brush motor reached the max. current and was reduced to brush motor reduced current.			
E041	Brush motor	Difference between both brush motors is bigger then 50% for more then 15 sec. and therefore the brush unit will be lifted up.			X
E042	Over-current brush lifting motor	The brush lift linear motor current reached the max. current.			
E043	Over-current squeegee lifting motor	The squeegee lift linear motor current reached the max. current.			
E044	Over-current vacuum motor	The vacuum motor current passed for 30 seconds the lower vacuum motor current limit or reached the max. current limit for 60 sec. and therefore the vacuum motor current was limited to the lower current limit.			
E045	Over-current traction motor 1	The LH traction motor current passed for 30 seconds the lower vacuum motor current limit or reached the max. current limit for 60 sec. and therefore the traction motor current was limited to the lower current limit.			
E046	Over-current traction motor 2	The RH traction motor current passed for 30 seconds the lower vacuum motor current limit or reached the max. current limit for 60 sec. and therefore the traction motor current was limited to the lower current limit.			

Table 5: Error codes overview

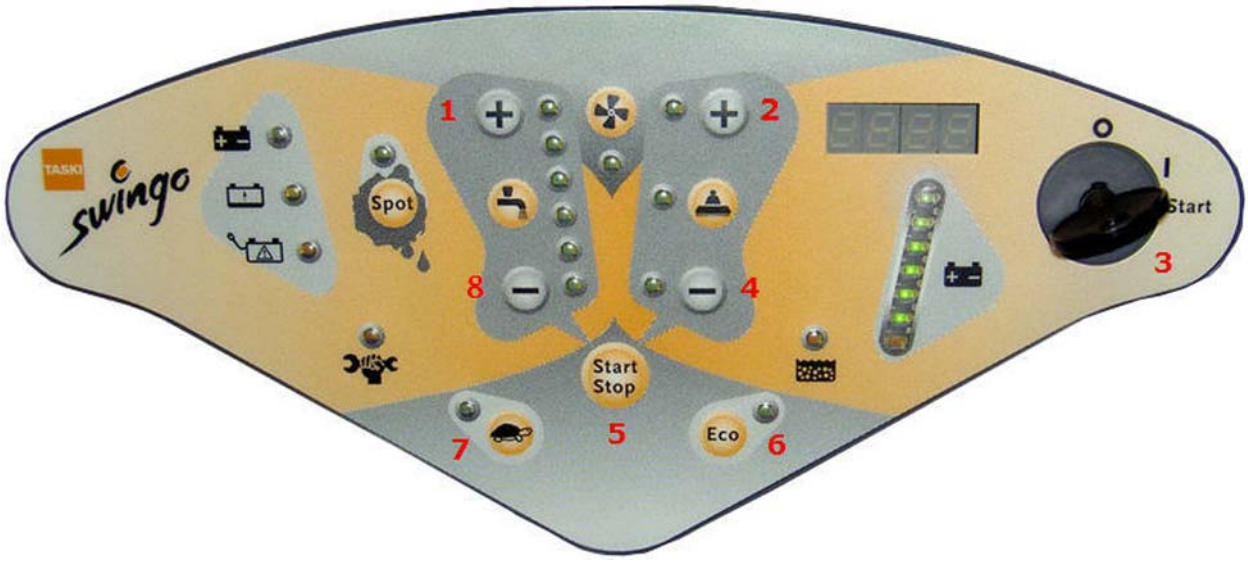
Error codes	Function	Control	Only self test	Machine status	Display information (during ON status)
E048	Short circuit detection	Short circuit detected on: traction motor, brush motor or vacuum motor aggregates switched off.			X
E050	Watchdog telegram	Communication between micro controllers failed (trigger protocol).		SAFE	
E051	Parameter	Wrong CRC (communication data failure). The parameter check sum is not correct.			X
OFFL		No communication of dashboard to power electronics. Firmware download issue.		OFFL	

Table 5: Error codes overview

6.6 Dashboard service menu

The TASKI swingo XP has a dashboard service menu functionality. Following you find the description of the navigation.

6.6.1 Dashboard overview



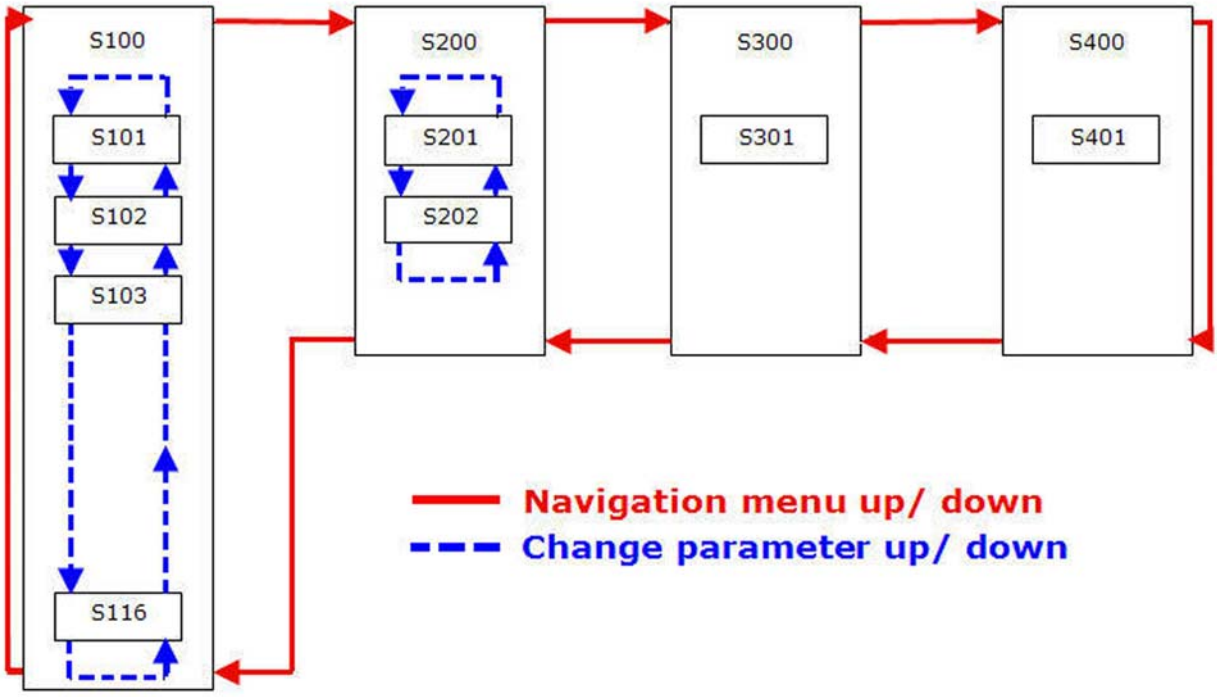
Picture 6: Dashboard overview

Pos.	Name	Description
1	Dosing +	
2	Brush pressure +	
3	Switch ON/OFF key	
4	Brush pressure -	
5	Start/Stop button	
6	ECO button	
7	Turtle button	
8	Dosing -	

Table 6: Dashboard overview

ST.06.15 dashboard service menu - navigation - XP_V1.00.fm

6.6.2 Menu navigation



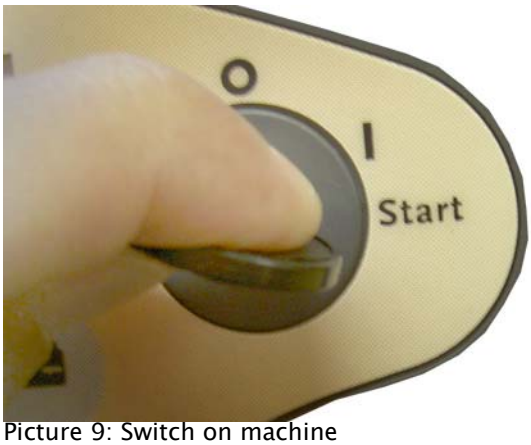
Picture 7: Navigation overview

⚠CAUTION *In service mode the machine is not operational.*

6.6.3 Enter service mode

Picture 8: Dashboard service menu

- Press dosing + and brush pressure + and keep pressed.



Picture 9: Switch on machine

- Turn on ON/OFF key.
- The machine is in service mode as soon S100 appears on the display.

6.6.4 Navigation menu up/down

Picture 10: Dashboard navigation

- Press brush pressure + for navigation up.
- Press brush pressure - for navigation down.

6.6.5 Enter menu or parameter/confirm

Picture 11: Dashboard confirm change

- Press Start/Stop button.

6.6.6 Change parameter up/down

Picture 12: Dashboard navigation

- Press brush pressure + for navigation up.
- Press brush pressure – for navigation down.

6.6.7 Reset value

Picture 13: Dashboard reset

- Press turtle button.

6.6.8 Leave without change

Picture 14: Dashboard leave

- Press ECO button.

6.6.9 Exit service mode

Picture 15: Dashboard leave

- Press ECO button repeatedly as long as you are in the service mode.

6.7 Parameter settings - S100

6.7.1 Parameter settings overview

Following is the parameter list which can be seen on the dashboard.

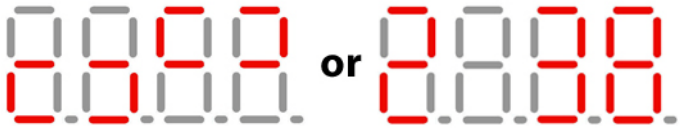
Parameter Number	Parameter Name	Parameter Description	Default	Read	Write	Reset	Value Range
S101	Service interval	Service interval	650	X			
S102	Servicestundenzähler	Service hours counter		X		X	0 ... 9999
S103	Betr_Std_Chassis	Chassis hours counter		X			0 ... 9999
S104	Betr_Std_Elektronik	Electronics hours counter		X			0 ... 9999
S105	Betr_Std_Saugmotor	Vacuum motor hours counter		X		X	0 ... 9999
S106	Betr_Std_Buerstenmotor	Brush motor hours counter		X			0 ... 9999
S107	Betr_Std_Fahrmotor	Traction motor hours counter		X			0 ... 9999
S108	Betr_Std_Dosierpumpen	Dosing pumps hours counter		X			0 ... 9999
S109	Betr_Std_Eco	ECO mode hours counter		X			0 ... 9999
S110[1]	Schalt_Zykl_BAS	Brush lifting motor cycle counter		X			0 ... 9999

Table 7: Parameter settings overview - S100

Parameter Number	Parameter Name	Parameter Description	Default	Read	Write	Reset	Value Range
S111[2]	Schalt_Zykl_DAS	Squeegee lifting motor cycle counter		X			0 ... 9999
S112[3]	Schalt_Zykl_DV	Dosing pump cycle counter		X			0 ... 9999
S113[4]	Schalt_Zykl_ECO	Eco mode cycle counter		X			0 ... 9999
S114	Battery type	Battery type GEL Sonnenschein (0)/Wet (1)/AGM Discover (2)/ XFC Enersys (3)	0	X	X		0/1/2/3
S115[5]	Machine type	Machine type	-	X	X		„see bellow picture“
S116	Firmware version	Firmware version	-	X			X.XX

Table 7: Parameter settings overview - S100

1. Counter increments after brush unit moves completely down and up again
2. Counter increment after squeegee moves completely down and up again.
3. Counter increments after dosing pump switch on and off again.
4. Counter increments after switch on and off again. Using of spot cleaning does not increment the counter.
5. The machine type needs to be configured according to which machine type it is.



Picture 16: Machine type XP-M or XP-R

6.8 Teach-In guidance and throttle - S200

- In the sub menu S200 it is possible to teach-in the hall sensors for guidance and throttle.

⚠CAUTION *Due to a plausibility check it is not be possible to teach completely wrong values.*

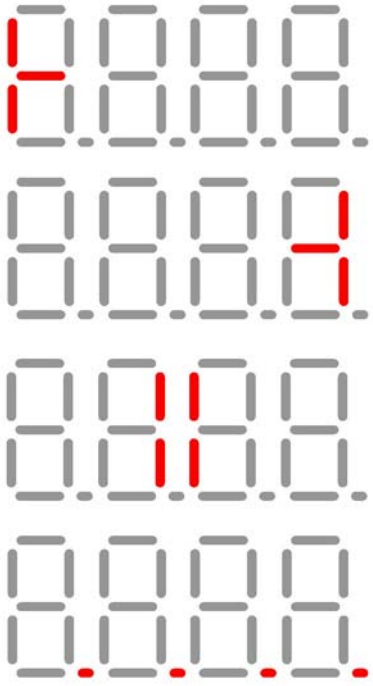
6.8.1 Teach-In guidance hall sensor - S201

- Enter into sub menu S201.
- Position the guidance according to the symbols on the display and confirm the position with Start/Stop.
- Four dots at the end confirm that the values are stored.

⚠CAUTION *The teach-in can be stopped by pressing the ECO-button.*

Remarks

Following you find a picture of the four steps: Left, right, middle and end.



Picture 17: Guidance Teach-In

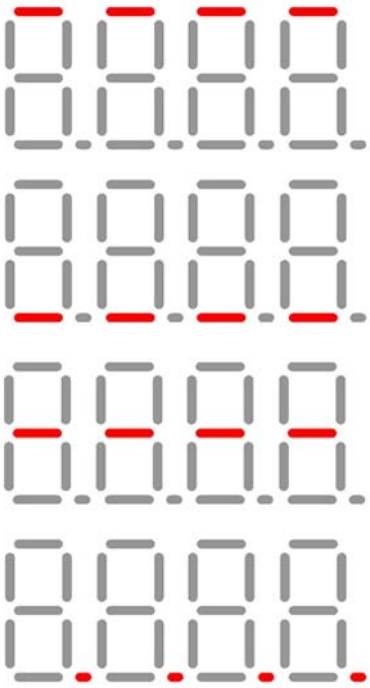
6.8.2 Teach-In throttle hall sensor - S202

- Enter into sub menu S202.
- Position the guidance according to the symbols on the display and confirm the position with Start/Stop.
- Four dots at the end confirm that the values were stored.

⚠CAUTION *The teach-in can be stopped by pressing the ECO-button.*

Remarks

Following you find a picture of the four steps: Forwards, backwards, middle and end.



Picture 18: Throttle Teach-In

6.9 Self test - S300

The self test can help to find out problems on following aggregates:

- Brush lifting motor.
- Brush motors.
- Vacuum motor.
- Squeegee lifting motor.

⚠CAUTION *Interruption of power supply can be detected.*

6.9.1 Start the self test - S301

- Stand on the machine to activate step board switch.
- Enter into sub menu S301.
- Start the test with the Start/Stop button.
- The machine performs the self test.
- Following aggregates will be activated during the test:
  - Brush lifting motor.
  - Brush motor.
  - Vacuum motor.
  - Squeegee lifting motor.

⚠CAUTION *If the test is passed successfully the message E000 appears on the display.*

If a problem was detected the error message indicates on which aggregate the problem was found.

If more than one error is present they will appear alternating.

Please refer to error codes overview.

6.10 Error buffer - S400

6.10.1 Error buffer philosophy

- The error buffer can store up to 10 error codes.
- Only the occupied places will be displayed.
- An error code occupies only one place.

Remarks

If the same error code happens consecutively, it is displayed only one time.

- The latest error code will be displayed first.
- The oldest error code will drop out when the 11th different error message appears.
- First in - first out (FIFO).

6.10.2 Enter into error buffer

- Enter into sub menu S401 with Start/Stop.
- Check the error codes.
- Exit with the ECO button.

6.10.3 Reset error buffer

- Enter into sub menu S401.
- Press the turtle button until the display shows E000.

⚠CAUTION *A reset of the error buffer is definitive.*

6.11 Dashboard service menu

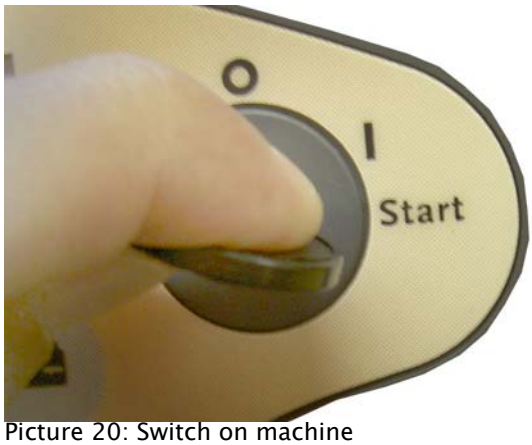
The TASKI swingo XP has a dashboard service menu functionality. Following you find the reset of the service hour counter.

6.11.1 Reset service hour counter

To reset the service hour counter LED you have to perform the following steps:

Picture 19: Dashboard service menu

- Press dosing + and brush pressure + and keep pressed.



Picture 20: Switch on machine

- Turn on ON/OFF key.
- The machine is in service mode as soon S100 appears on the display.

Picture 21: Dashboard confirm change

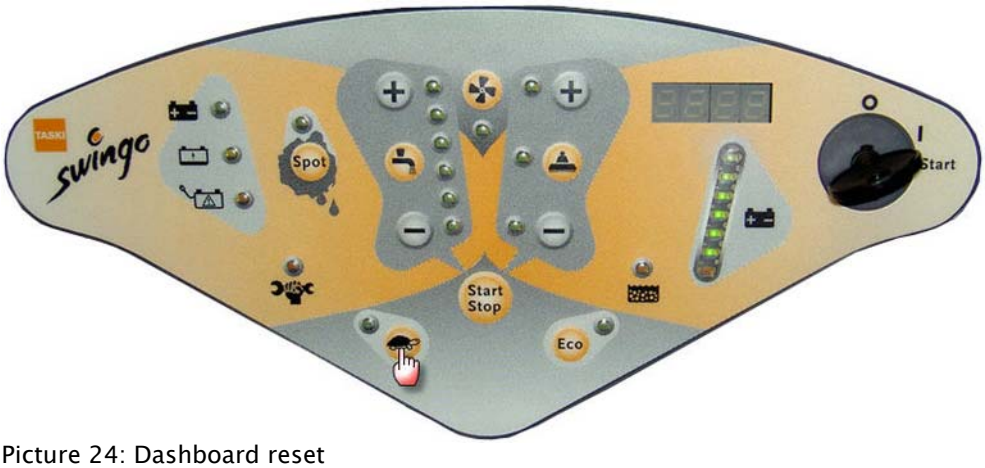
- Press Start/Stop button to get into the parameter settings.
- S101 appears.

Picture 22: Dashboard navigation

- Press brush pressure + for navigation up.
- S102 appears.

Picture 23: Dashboard confirm change

- Press Start/Stop button to get into the parameter S102.
- The hours of the service hour counter appear.



Picture 24: Dashboard reset

- Press turtle button to reset the hours.
- Zero hours appear.

Picture 25: Dashboard confirm change

- Press Start/Stop button to confirm.

Picture 26: Dashboard leave

- Press ECO button until you are out of the dashboard service menu.

6.11 Dashboard service menu

The TASKI swingo XP has a dashboard service menu functionality. Following you find the procedure on how to configure the machine type.

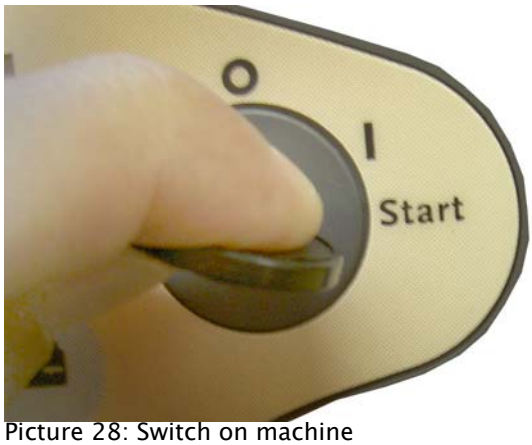
6.11.2 Configure machine type

Perform the following steps to adjust the machine type.

⚠CAUTION *If the machine is not configured when turning ON (e.g. after exchange of electronics), then it directly jumps into parameter 115. In this case follow as of picture 34.*

Picture 27: Dashboard service menu

- Press dosing + and brush pressure + and keep pressed.



Picture 28: Switch on machine

- Turn on ON/OFF key.
- The machine is in service mode as soon S100 appears on the display.

Picture 29: Dashboard confirm change

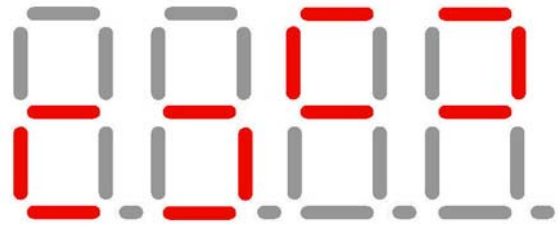
- Press Start/Stop button to get into the parameter settings.
- S101 appears.

Picture 30: Dashboard navigation

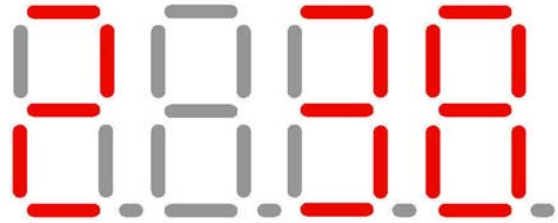
- Press brush pressure +/- for navigation up/down until S115 appears.

Picture 31: Dashboard confirm change

- Press Start/Stop button to get into the parameter S115.
- The display for XP-M or XP-R appears.



Picture 32: Machine type XP-M



Picture 33: Machine type XP-R

- Press brush pressure +/- for navigation up/down until your machine type appears.

Picture 34: Dashboard navigation

- Press Start/Stop button to confirm.

Picture 35: Dashboard leave

- Press ECO button until you are out of the dashboard service menu.

TASKI Service Tool

7 TASKI swingo 4000/5000

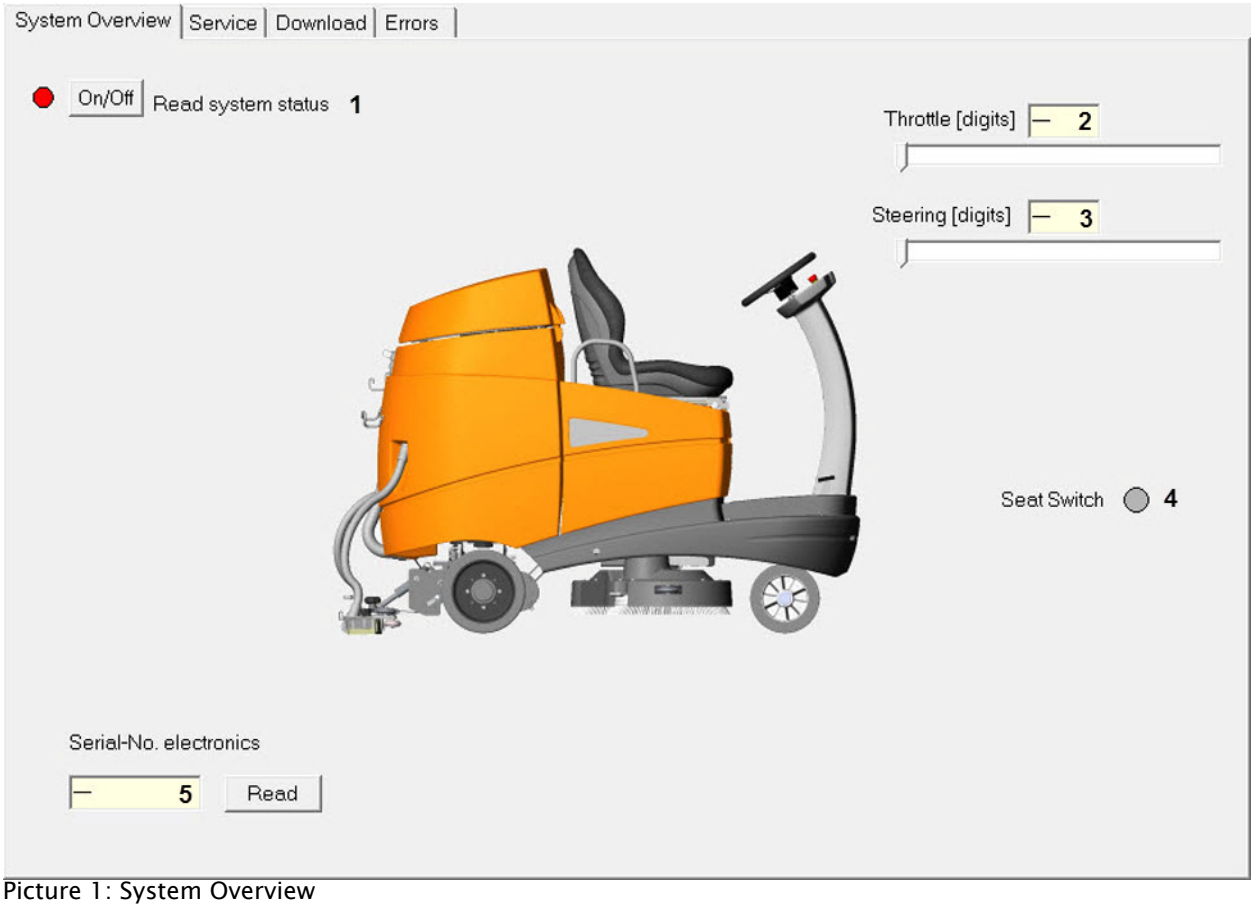
26. September 2014 Edition: V5.10/2014

7.1 System Overview

7.1.1 System Overview folder

⚠CAUTION *The following information is only for TASKI swingo 4000/5000.*

- The system overview enables to read out the actual values and therefore verify if the micro controllers are working correctly.



Picture 1: System Overview

Pos.	Name	Description	Remarks
1	Read system status	Activate actual values	Turn online reading ON/ OFF
2	Throttle [digits]	Actual value of throttle	Forward max. = 1000 digits Backward max. = 0 digits
3	Steering [digits]	Actual value of steering	Left max.= 1000 digits Right max. = 0 digits

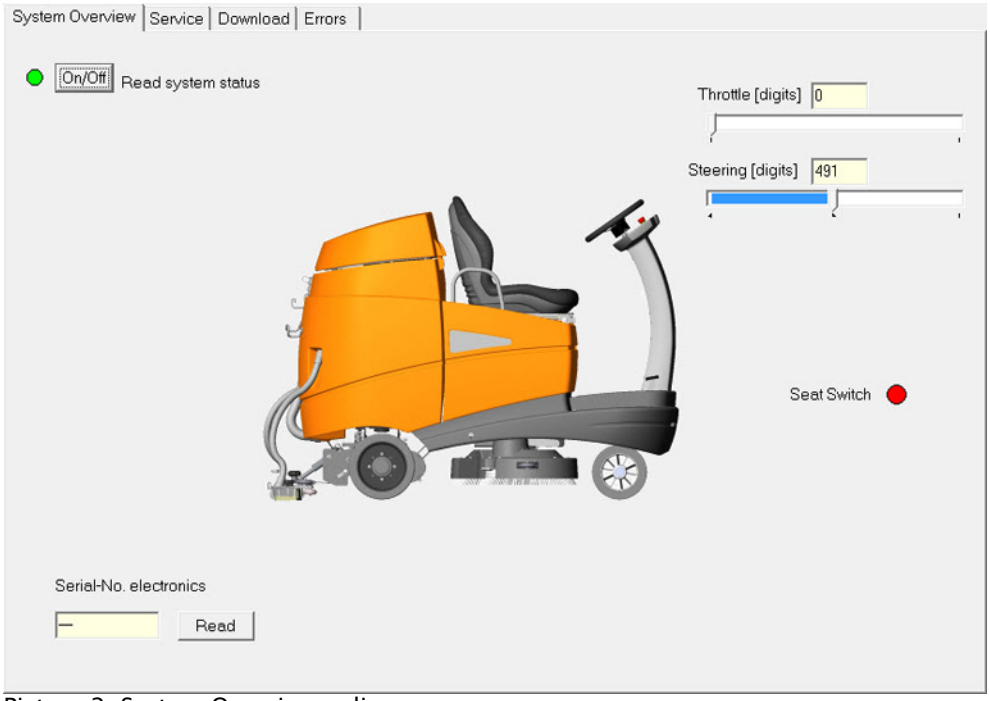
Table 1: System Overview

Pos.	Name	Description	Remarks
4	Seat Switch	Seat switch activated	Green dot = activated Red dot = not activated
5	Series-Nr. electronics	Serial number of electron-ics	If available, number is shown

Table 1: System Overview

7.1.1 System Overview - Online

- After pressing the „ON/OFF“ button you are online with the electronics.
- You see the actual values from the electronics.



Picture 2: System Overview online

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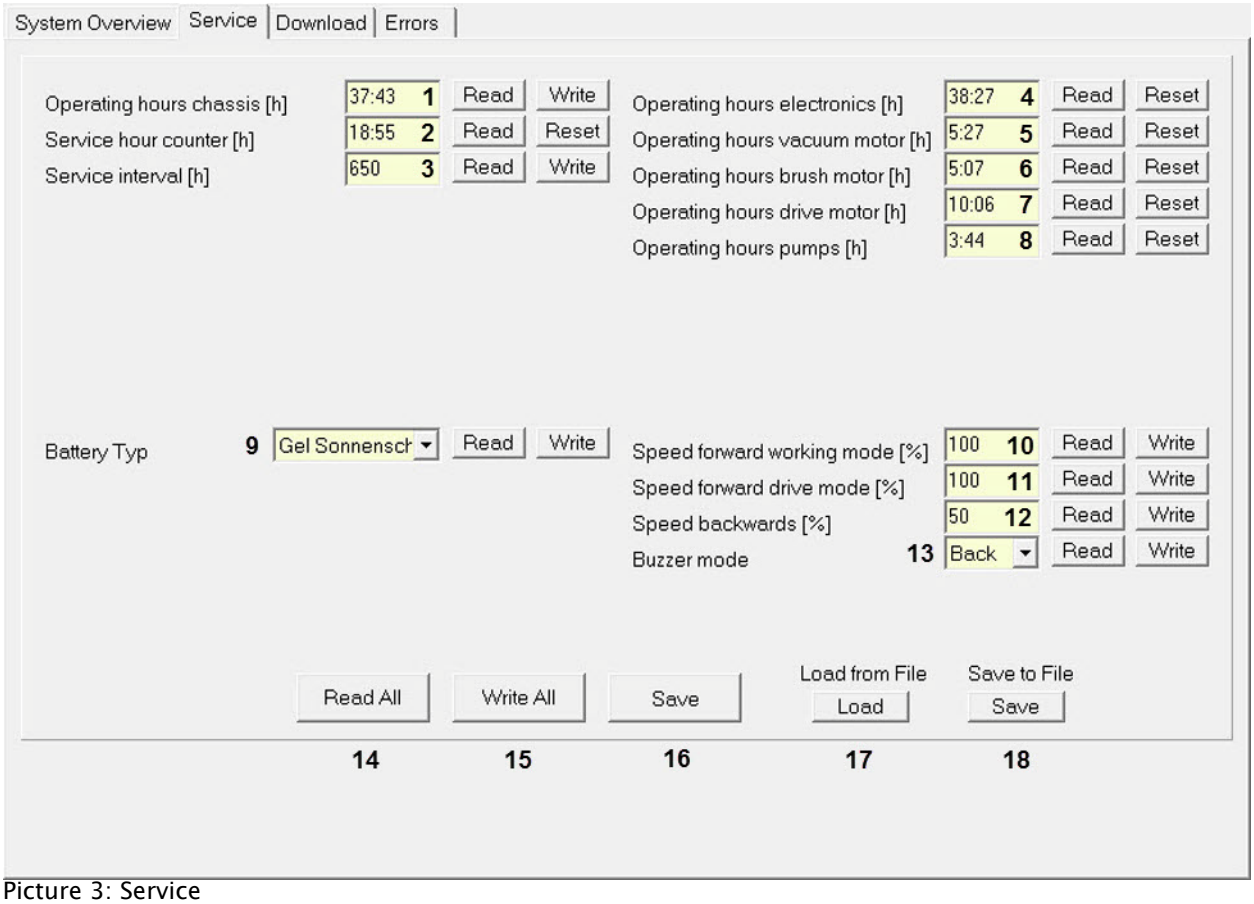
7.2 Service

7.2.1 Counter, machine configuration

⚠CAUTION *The following information is only for TASKI swingo 4000/5000.*

- The service folder enables to check:
  - Hour counters.
  - Switching counters.
  - Load and save the counter file.
  - Speed adjustment.
  - Battery type.



Picture 3: Service

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
1	Operating hours chassis [h]	Operating hours		X		X	

Table 2: Service

Pos.	Name	Description	Remarks	Read	Reset	Write	Save required
2	Service hour counter [h]	Service hour counter		X	X		
3	Service interval [h]	Service interval	Default [650] steps of 50	X		X	Yes
4	Operating hours electronics [h]	Operating hours electronics		X	X		
5	Operating hours vacuum motor [h]	Operating hours vacuum motor		X	X		
6	Operating hours brush motor [h]	Operating hours brush motor		X	X		
7	Operating hours drive motors [h]	Operating hours drive motor		X	X		
8	Operating hours pumps [h]	Operating hours pump		X	X		
9	Battery Typ	Battery type discharging curve		X		X	Yes
10	Speed forward working mode [%]	Maximum working speed	Default [100] min. 50, max. 100	X		X	Yes
11	Speed forward drive mode [%]	Maximum drive speed	Default [100] min. 50, max. 100	X		X	Yes
12	Speed backwards [%]	Maximum speed backwards	Default [50] min. 20, max. 50	X		X	Yes
13	Buzzer mode		Default [Back] Off, Back, For+Back	X		X	Yes
14	„Read All“ button	Read all counters from electronics	Pos. 1 to 13	X			
15	„Write All“ button	Write all counters onto electronics	Pos. 1 to 13			X	Yes
16	„Save“ button	Save values onto electronics					
17	„Load“ button	Load counter file	Load values into cache (buffer)				
18	„Save“ button	Save counter file	Save values into file				

Table 2: Service

Adjustment

Following additional information to upper table:

Pos. 3, Service hour counter: Service interval between 200 and 900 in steps of 50 hours.

Pos. 9, Battery type: GEL Sonnenschein, XFC Enersys, AGM (Discover), Wet.

Pos. 10, Speed forward working mode: Speed can be adjusted between 50 and 100% in steps of 10%

Pos. 11, Speed forward driving mode: Speed can be adjusted between 50 and 100% in steps of 10%

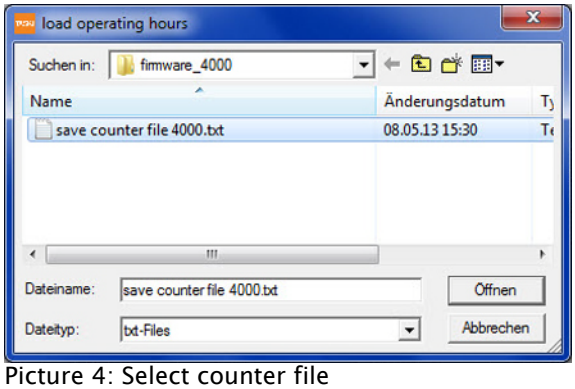
Pos. 12, Speed backwards: Speed can be adjusted between 20 and 50% in steps of 10%

7.3 Counter file

The counter file can be used to store the values of the actual counter situation. This can be a help either after a maintenance or when an exchange of the electronics is necessary.

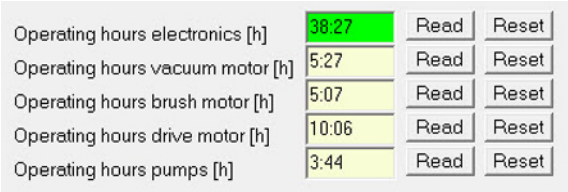
7.3.1 Load counter file

- When you press the „Load“ (No. 17) button, then you are asked to select the appropriate file.



Picture 4: Select counter file

- The values (No. 1 to 13) from the counter file are now visible in the Service Tool.
- These values are NOT in the electronics yet. To write them into the electronics you need to press „Write All“ (No. 15).

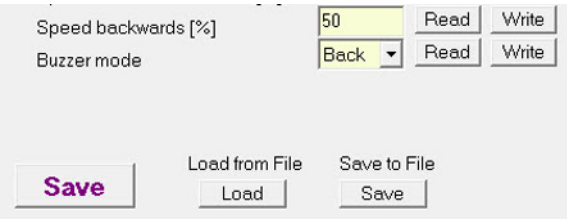


Picture 5: Write all

Remarks

During the writing you see that one value after another changes to a green background.

- When this is finished, then the „Save“ button changes its colour to purple.
- Now you need to press the „Save“ button to store the values onto the electronics.



Picture 6: Save values

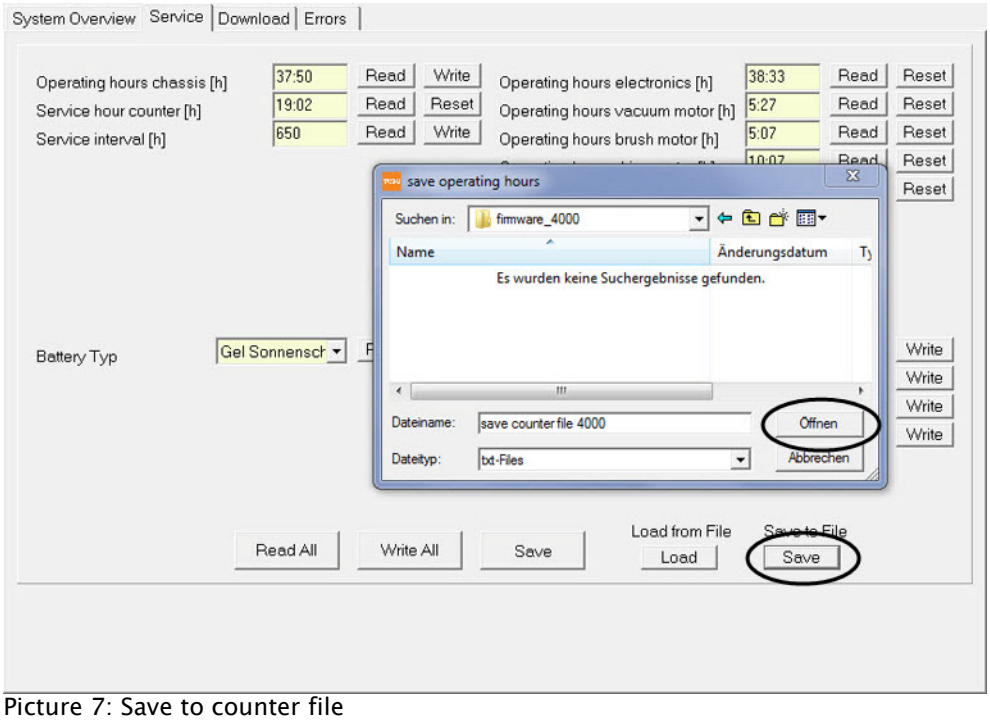
- The „Save“ button changes to the original colour. Now the values are saved on the electronics.

7.3.2 Save counter file

- You can save the visualised values into a file.
- The file format is „*.txt“.

⚠CAUTION *You can only „Save“ after you had communication between PC/Laptop and the electronics and after pressed either one of the „Read“ or the „Read All“ button.*

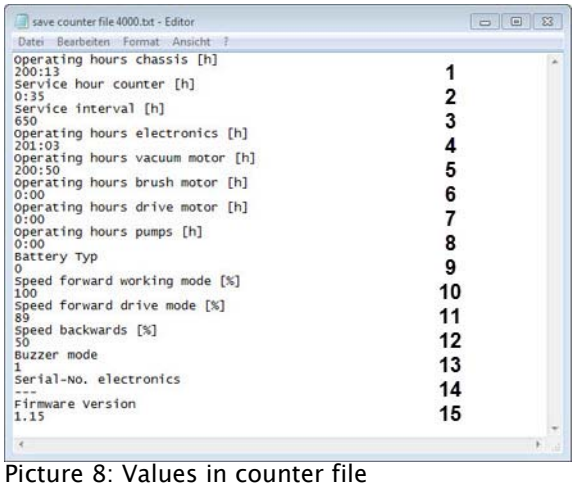
- After pressing the button „Save“ a window opens. Here you can select the location and choose a name for the file.
- When you are finished, the file is saved at its location (e.g. save to counter file 4000.txt).



Picture 7: Save to counter file

7.3.3 Values in counter file

- When you open up the value file then a text editor window opens.
- Following the values are described.



Picture 8: Values in counter file

Pos.	Name	Description
1	Operating hours chassis	Total hours (same as on display)
2	Service hour counter	Hours since last service
3	Service interval	Service interval between 200 and 900h (steps of 50 hours)
4	Operating hours electronics	Hours of electronics
5	Operating hours vacuum motor	Hours of vacuum motor
6	Operating hours brush motor	Hours of brush motor
7	Operating drive motor	Hours of drive motor
8	Operating hours pumps	Hours of pumps
9	Battery Typ	Number of which battery type is selected
10	Speed forward working mode	Speed forward in working mode, percentage (%)
11	Speed forward drive mode	Speed forward in drive mode, percentage (%)
12	Speed backwards	Speed backwards, percentage (%)
13	Buzzer mode	0=OFF, 1= Back, 2 = For + Back
14	series-Nr. electronics	Serial number of electronics
15	Firmware version	Version number

Table 3: Information to counter file

7.4 Error codes

7.4.1 Error codes overview

Remarks

The generated error codes will be written into the error buffer.

Display information is only possible if machine is ON:

Error codes	Function	Control	Machine status	Display information
001	Battery voltage	The voltage of the battery has past the lower limit. The battery status reset takes place if 25.4VDC is available for more than 10 seconds.	Machine shuts OFF	
003	Signal throttle	Broken wire of throttle signal.	No movement possible	E003
004	Signal guidance	Broken wire of guidance signal.	Machine runs on reduced speed	E004
005	Brush pressure	Short circuit or broken wire of brush signal.	Brush motor turns OFF, brush unit goes up	E005

Table 4: Error codes overview

Error codes	Function	Control	Machine status	Display information
006	Over temperature drive motor	Over temperature has been reached. The drive motor is limited to the lower current limit.		
007	Over temperature brush motor	Over temperature has been reached. The drive motor is limited to the lower current limit.		
008	Over temperature vacuum motor	Over temperature has been reached.	Vacuum motor turns OFF	E008
009	Over current drive motor	Drive motor reached the max. current and was reduced to lower limit.		
010	Short circuit drive motor	Short circuit has been detected.	Machine shuts OFF	E010
011	Short circuit brush motor	Short circuit has been detected.	Brush motor turns OFF, brush unit goes up	E011
012	Time out brush pressure	No change of brush pressure signal during movement of brush lowering motor.	Brush motor turns OFF, brush unit goes up	E012
013	Over current brush lowering	Over current has been detected during down sequence of brush lowering motor.	Brush motor turns OFF, brush unit goes up	
014	Over current brush lowering	Over current has been detected during up sequence of brush lowering motor.	Brush motor turns OFF, brush unit goes up	
024	Over current brake	Over current of brake has been detected.	No drive movement	E024
025	Low current brake	Low current of brake has been detected.	No drive movement	E025

Table 4: Error codes overview

Error codes	Function	Control	Machine status	Display information
026	Time out squeegee lowering	Time out of squeegee has been detected.	Squeegee goes up and vacuum motor turns OFF	E026
027	Over current squeegee lowering	Over current has been detected during down sequence of squeegee lowering motor.	Squeegee goes up and vacuum motor turns OFF	
028	Over current squeegee lowering	Over current has been detected during up sequence of squeegee lowering motor.	Squeegee goes up and vacuum motor turns OFF	
029	Over current vacuum motor	Over current of vacuum motor has been detected.	Squeegee goes up and vacuum motor turns OFF	E029
030	Short circuit throttle	Short circuit of throttle sensor has been detected.	No movement of the aggregates	E030
031	Short circuit guidance	Short circuit of guidance sensor has been detected.	Machine runs on reduced speed	E031
033	Battery over voltage	To high battery voltage has been detected (>30VDC).		
OFFL	Offline	No communication of dashboard to power electronics.		

Table 4: Error codes overview

7.5 Dashboard service menu

The TASKI swingo 4000/5000 has a dashboard service menu functionality. Following you find the description how to lock/unlock levels and set available parameters.

7.5.1 Settings

The service menu is built up in a sequential process. Which means, that the order of the step by step navigation remains the same.

In the service menu you have the possibilities to:

- lock/unlock the water level.
- lock/unlock the brush pressure level.
- adjust the maximum cleaning speed.

To get into the service menu you need to turn ON the machine and make sure that the aggregates are switched OFF. Then you have to perform the following steps:

Remarks

Make sure that the water is not activated (LED OFF).

Picture 9: Insert into service menu

- Press the „ECO“ button and then the water ON/OFF button together.
  - After approximately 2 seconds the water ON/OFF button is flashing.
  - The actual locked water level LED is ON or all LED‘s are OFF.

Remarks

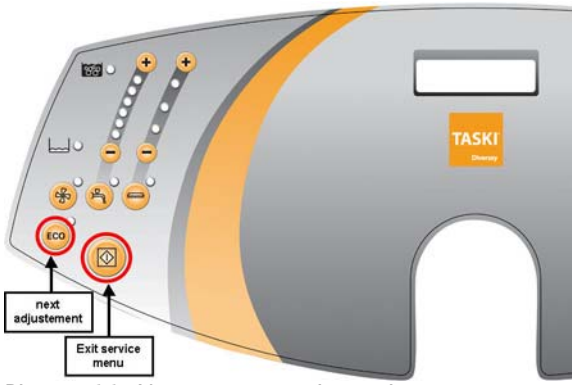
If all LED's are OFF, it means that the adjustment is not locked and the operator can make the adjustment.

Picture 10: Water dosing (+) and (-)

- To adjust the water level you need to press (+) or (-) of the water adjustment.

Remarks

When all LED's are OFF, then it is unlocked.



Picture 11: Next step or exit service menu

- When you have done the adjustments you have two possibilities:
  - By pressing the „ECO" button you get to the next adjustment.
  - By pressing the program button you exit the service menu.

⚠CAUTION

By pressing the program button to exit the service menu the setting is automatically saved.

- If you pressed the „ECO" button then the brush pressure ON/OFF button is flashing.
- The actual locked brush pressure level LED is ON or all LED's are OFF.

Remarks

If all LED's are OFF, it means that the adjustment is not locked and the operator can make the adjustment.

Picture 12: Brush pressure dosing (+) and (-)

- To adjust the brush pressure level you need to press (+) or (-) of brush pressure adjustment.

Remarks

When all LED's are OFF, then it is unlocked.

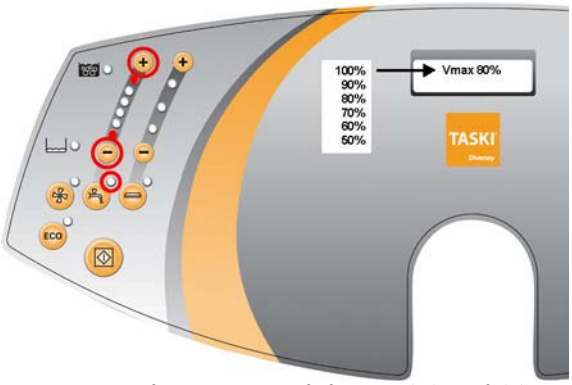
Picture 13: Next step or exit service menu

- When you have done the adjustments you have two possibilities:
  - By pressing the „ECO" button you get to the next adjustment.
  - By pressing the program button you exit the service menu.

⚠CAUTION

By pressing the program button to exit the service menu you saved the setting.

- If you pressed the „ECO" button then the actual maximum cleaning speed is shown on the display.



Picture 14: Cleaning speed dosing (+) and (-)

- To adjust the maximum cleaning speed value you need to press (+) or (-) of the water level. The LED's besides (+) and (-) are ON to indicate this.
- When you have adjusted the requested value you can exit the service menu by pressing the program button.

Remarks

The service menu sequence is now finished. If you need to enter/ change again, start from the beginning.

You also can adjust the maximum cleaning speed with the Service Tool online. Please refer to the Service Tool Manual for this and additional explanations.

7.5 Dashboard service menu

The TASKI swingo 4000/5000 have a dashboard service menu functionality. Following you find the description how to set the throttle.

7.5.2 Set throttle

In the service menu you have the possibilities to:

⚠CAUTION *The throttle lever has to be in the upper/released position.*

Do not manipulate the throttle lever during this procedure.

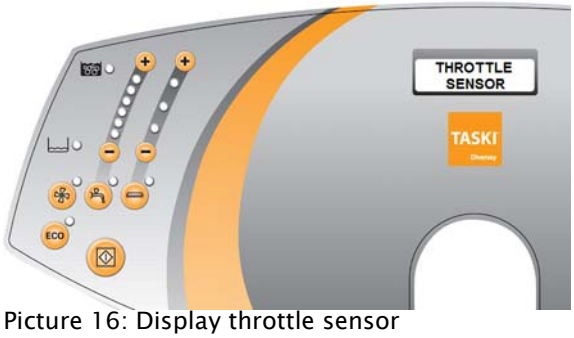
To get into the service menu you need to turn ON the machine and make sure that the aggregates are switched OFF. Then you have to perform the following steps:

Remarks

Make sure that the brush is not activated (LED OFF).

Picture 15: Start throttle set

- Press the „ECO“ button and then the brush button together.
- In the display „THROTTLE SENSOR“ appears.

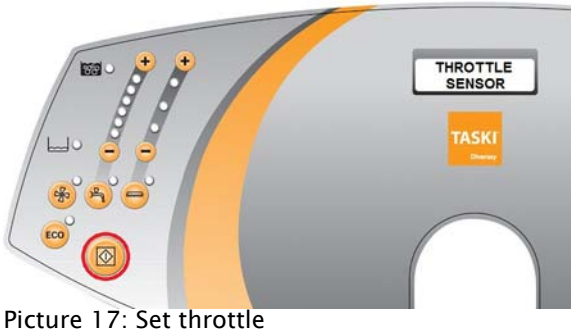


Picture 16: Display throttle sensor

Remarks

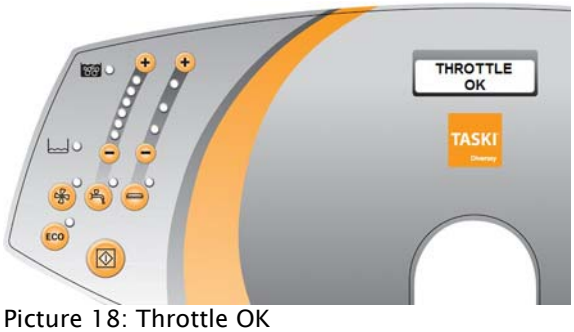
This display will disappear after 3s if you do not confirm setting and nothing happens. You need to start again after this.

- Press the program button to set.



Picture 17: Set throttle

- In the display „THROTTLE OK“ appears.



Picture 18: Throttle OK

Remarks

This display automatically disappears and the machine is ready for normal function.

Adjustment

We advise to carry out this procedure after work has been done on the throttle lever, hall sensor or exchange of the electronics.

The hall sensor and magnet is now paired and therefore exchange both to assure optimise functionality.

7.5 Dashboard service menu

The TASKI swingo 4000/5000 have a dashboard service menu functionality. Following you find the reset of the service hour counter.

7.5.3 Reset service hour counter

To reset the service hour counter LED you have to perform the following steps:

- Switch ON the machine.
- Service hour counter LED is ON.

Picture 19: Reset service hour LED

- Press the dosing (+) button and dosing (-) button together until the service LED switches OFF.
  - After approximately 2 seconds the service LED starts flashing.
  - After further 2 seconds the service LED goes OFF.
  - Service hour counter is reset.

Remarks

You also can reset the service hour counter with the Service Tool online. Please refer to the Service Tool Manual for this and additional explanations.

⚠CAUTION *If the service LED is not ON and you follow this procedure, then you reset the service hour counter.*

The reason is: if you carry out a service, even if the LED is not ON, then you have the possibility to reset the service hour counter.

TASKI Service Tool

8 Revision

26. September 2014 Edition: V5.10/2014

8 Revision

Date	Chapter	Content	Description	Revision
30.04.2010	6	Swingo 2500/3500 V2	New error code list	V1.10
30.04.2010	6	Swingo 2500/3500 V2	USB adapter picture removed	V1.10
27.07.2010	All	All	Using FM9	V1.10
09.11.2010	5	Swingo 350/755/855/1255	Adjusted General chapter	V1.20
10.11.2010	5	Swingo 350/755/855/1255	Added TASKI swingo 350	V1.20
11.11.2010	6	Swingo 2500/3500 V2	Adjusted vacuum motor in error list	V1.20
11.11.2010	All	All	New TASKI logo	V1.20
21.02.2011	All	All	Separated from whole book, only 350/755/855/1255/ 1650/1850/XP	V2.00
21.02.2011		Forward, Elementary	Removed as not necessary for each description	V2.00
21.02.2011		Service Tool	Added TASKI swingo 1650/1850 speed adjustment	V2.00
06.04.2011	Title	Picture	Added picture of 4000	V3.00
11.05.2011	All	All	Separated machine types into chapters	V3.00
12.05.2011	7	Swingo 4000	Added TASKI swingo 4000 chapter as this is a new machine type	V3.00
26.03.2012	All	All	Adjusted to Service Tool version 6.00	V4.00

Table 1: Revision

Date	Chapter	Content	Description	Revision
26.03.2012	2	Swingo 350/455/755/855/ 1255/1650/1850/XP/4000/ 5000	Added the chapter errors and adjusted to new version	V4.00
26.03.2012	7	Swingo 4000/5000	Moved chapter errors to chapter 2	V4.00
26.03.2012	3	Swingo 350/455	Added the TASKI swingo 455	V4.00
26.03.2012	3	Swingo 350/455	Added reset service LED for 455	V4.00
26.03.2012	6	Swingo XP	Removed the old error visibility	V4.00
26.03.2012	7	Swingo 4000/5000	Adjusted to swingo 5000	V4.00
14.06.2012	7	Swingo 4000/5000	Added new service menu for swingo 4000/5000	V4.10
22.04.2013	All	All	New structure with single files.	V5.00
24.04.2013	7	Swingo 4000/5000	Added set throttle for swingo 4000/5000	V5.00
16.05.2013	All	All	Adjusted to new Service Tool Version 7.00	V5.00
01.07.2013	All	All	Adjusted to new Service Tool Version 7.04	V5.00
17.09.2014	All	All	Adjusted to current logos and pictures	V5.10
22.09.2014	6	Swingo XP/XP-M/XP-R	Added the changes for swingo XP-M/XP-R	V5.10
24.09.2014	All	All	Adjusted to new Service Tool Version 7.09	V5.10

Table 1: Revision

TASKI Service Tool

9 Appendix

26. September 2014 Edition: V5.10/2014

Glossar

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TASKI Service Tool

10 Notes

26. September 2014 Edition: V5.10/2014