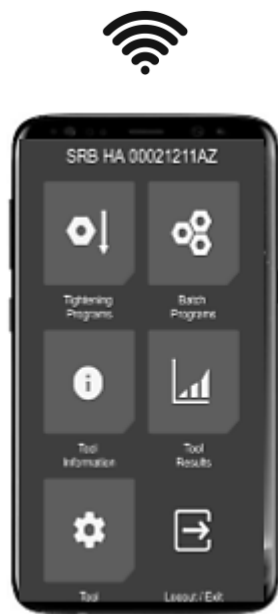


SRB HA MOBILE SMI





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2020-04-03

INTRODUCTION

This guide will explain the content and functionality of the RHMI on the SRB HA tool and on the MOBILE HMI which is used after logging on to the web server on the tool/.

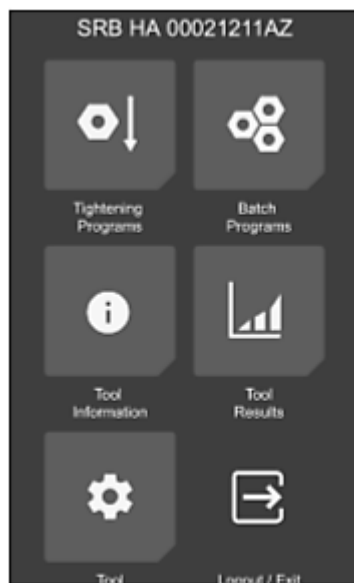
Default SSID: SRBHA [serial number]

Default Password: 12345678

Default IP Address: 192.168.2.1

BASIC MENU

After logging on you will find this screen which is the Basic Menu



Tightening Programs – This is where you can configure your 10 Psets / Smart Programs

Batch Programs – This is where you can configure your 10 Batches

Tool Information – This is where you can find basic info of your tool

Tool results – Here you download the stored tightening data from the tool

Tool configuration – Here you can change the settings of the tool

Logout / Exit – ALWAYS press this Icon when you are done with your configuration. It disabled the access point and saves battery.

SRB HA MOBILE HMI

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Tightening Programs

Here you can program 10 Psets. Either select an existing program to edit or select <create new>

Always press save when you are done with the set up.



The screenshot shows a mobile HMI screen titled "Tightening Programs". It features a list of programs: Torque300, Torque400, Tolerance1, TA60, TA62, and <create new>. Each item has a right-pointing arrow. The list is preceded by a "Program Index" header and a "Name" label.

There will be two main strategies; Tighten to torque or Tighten to torque + angle.

Tighten to Torque:

You are required to set up: Name and Target torque (10-100% of tools capacity)



The screenshot shows the "Edit" screen for a program named "Torque400". It includes the following fields and controls:

- Name:** Torque400
- Strategy:** Torque (dropdown menu)
- Tightning direction:** CW (dropdown menu)
- Target Torque[Nm]:** 400
- Target Angle[deg]:** (empty field)
- Run down speed:** 100% (dropdown menu)
- Monitors:**
 - Torque Tolerance (%):** 15
 - Min Angle[deg]:** 300
- Restrictions:**
 - Max Angle[deg]:** 5000

CW/CCW Tightening direction (***Not implemented 2020-04-03***)

Rundown Speed: 50 / 75 / 100%

Torque Tolerance: +- What percentage for an OK/NOK Tightening based on result

Min / Max Angle measured from Rundown complete

2020-04-03

Tighten to Torque + Angle:

You are required to set up: Name, first torque and target angle

Name	TA62
Strategy	Torque+Angle
Tightning direction	CW
First Torque[Nm]	130
Target Angle[deg]	62
Run down speed	100%
Monitors	
Torque Tolerance (%)	0
Min Torque[Nm]	130
Restrictions	
Max Torque[Nm]	190

The tolerance for OK is +/- 3 degrees

Rundown speed: 50 / 75 / 100%

Min Torque default = First torque

Max Torque default = Tool max Torque

BATCH PROGRAMS

Here we can program up to 10 batches. A batch consists of one Smart program and a count 1-250

Always press save when you are done with setup

Batch Programs

Batch Index	Program	Count	
1.	Torque300	2	▶
2.	TA60	250	▶
3.	<Not used>	-	▶
4.	<Not used>	-	▶
5.	<Not used>	-	▶
6.	<Not used>	-	▶
7.	<Not used>	-	▶
8.	<Not used>	-	▶
9.	<Not used>	-	▶
10.	<Not used>	-	▶

Batch 1

Edit

Program: Torque300

Count: 2

DELETE CANCEL SAVE

2020-04-03

TOOL INFORMATION

Basic Tool Information

Tool Information	
Detail List	
Product	SRB HA
Serial Number	Z1690001
Software Version MB	0.0.0 (0)
Software Version HMI	0.1.2 (0)
Main board temperature	47.3°C
Power module temperature	30.1°C
Motor temperature	26.8°C
Cycle counter	9999

TOOL CONFIGURATION

Here you can change some basic settings including time and date

Tool Settings	
Edit	
Front light mode	Enable
Guiding light	Enabled
Torque unit	Nm
Front light intensity	Minimum
Display intensity	High
Rundown speed	100%
Second trigger	Disabled
Time	2020-03-17 09:23

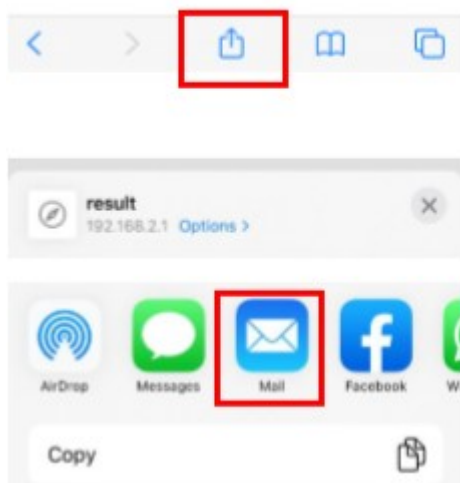
2020-04-03

TOOL RESULTS

When pressing this you will get two options; View or Download

If you press View it will open on your device

Easiest way if you use your phone is then to (Example from iPhone) attach it to an email and sent it to whoever is required



What it looks like:

Date and time	Tool serial	Tightening status	Tightening status info	Tightening program type	Custom ID	Target torque	Target angle[deg]	Final torque	Final angle[deg]	Torque unit
2020-03-30 09:38	Z1690001	OK	-	Quick torque set	-	715	0	720	110	Nm
2020-03-30 09:38	Z1690001	OK	-	Quick torque set	-	715	0	726	182	Nm
2020-03-30 09:38	Z1690001	NOK	Tightening not OK	Quick torque set	-	130	0	170	0	Nm
2020-03-30 09:38	Z1690001	NOK	Tightening not OK	Quick torque set	-	130	0	213	1	Nm
2020-03-30 09:38	Z1690001	NOK	Tightening not OK	Quick torque set	-	130	0	210	1	Nm
2020-03-30 09:39	Z1690001	OK	-	Quick torque set	-	130	0	130	62	Nm
2020-03-30 09:39	Z1690001	OK	-	Quick torque set	-	1300	0	1311	169	Nm
2020-03-30 09:40	Z1690001	NOK	Tightening not OK	P0:Torque300	-	300	0	119	50	Nm
2020-03-30 09:40	Z1690001	NOK	Tightening not OK	P0:Torque300	-	300	0	233	50	Nm
2020-03-30 09:40	Z1690001	OK	-	P0:Torque300	-	300	0	300	25	Nm
2020-03-30 09:40	Z1690001	NOK	Tightening not OK	P0:Torque400	-	400	0	410	154	Nm
2020-03-30 09:41	Z1690001	OK	-	P0:Tolerance1	-	300	0	301	123	Nm

Custom ID will be the scanned Barcode once that is implemented (**Not implemented 2020-04-03**)

SRB HA MOBILE HMI



2020-04-03