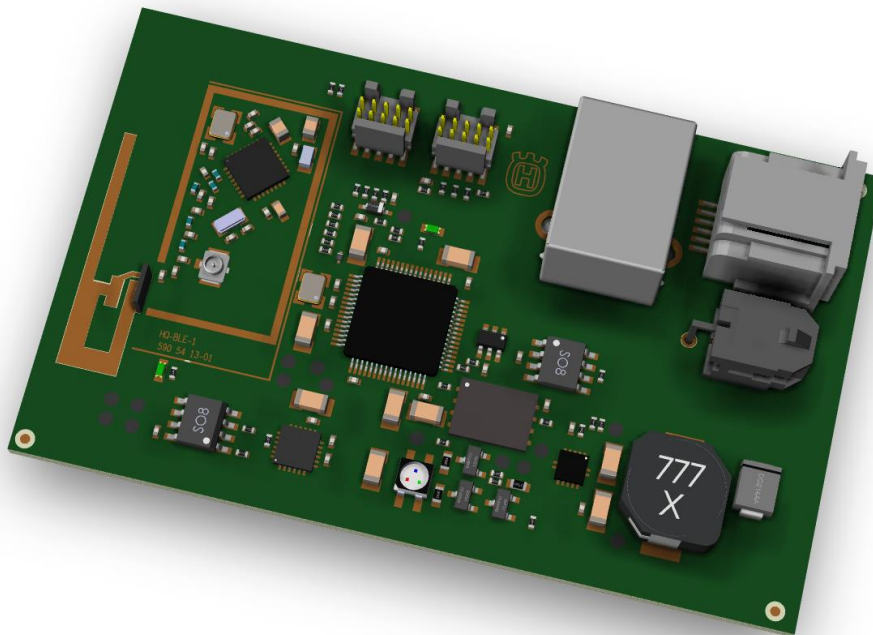

<i>File name</i>	<i>Doc no.</i>	<i>Date</i>	<i>Page</i>
598016001-PCBA Spec-Base Station Board Type 1	598 01 60-01	2021-02-16	1 (5)
<i>Issued by</i>	<i>Project</i>	<i>Doc type</i>	<i>Rev</i>
Niklas Landin	Robotic Mower P3	Prod doc	G

PCBA Specification for 598 01 60-01 Base Station Board Type 1



Product Marking of PCBA:

Each printed circuit board assembly (PCBA) shall be marked with:

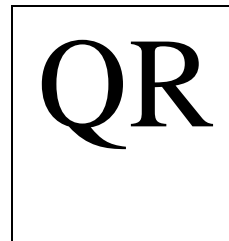
- A QR code, min 10x10mm, with total 50 positions consisting of HID and Rev according to “STD 0002” and “STD 0003”. In these standards the QR code is specified to start with [HTTPS://HQR.CODES](https://hqr.codes) but this must be excluded. This means that the complete QR code will be as follows:

HID=xxxxxxxxxxxxxxxxxxxxxxxxxxxx&REV=yy, where x the 25 letters in HID and y is one or two letters for revision.

- Product name, (“Base Station Board Type 1”)
- Part number for the assembly, (“589 01 60-01”)
- Revision for the assembly, (“same as the (first) letter in PCBA revision according to BOM”)
- HID
- Radio certification text:
 - “FCC ID: ZASHQ-BLE-1D
 - “IC:23307-HQBLE1D

Example of label:

Base Station Board Type 1
598 01 60-01 Rev R
HID:
xxxxxxxxxxxxxxxxxxxxxxxxxxxx
FCC ID: ZASHQ-BLE-1D
IC:23307-HQBLE1D
Supplier specific code

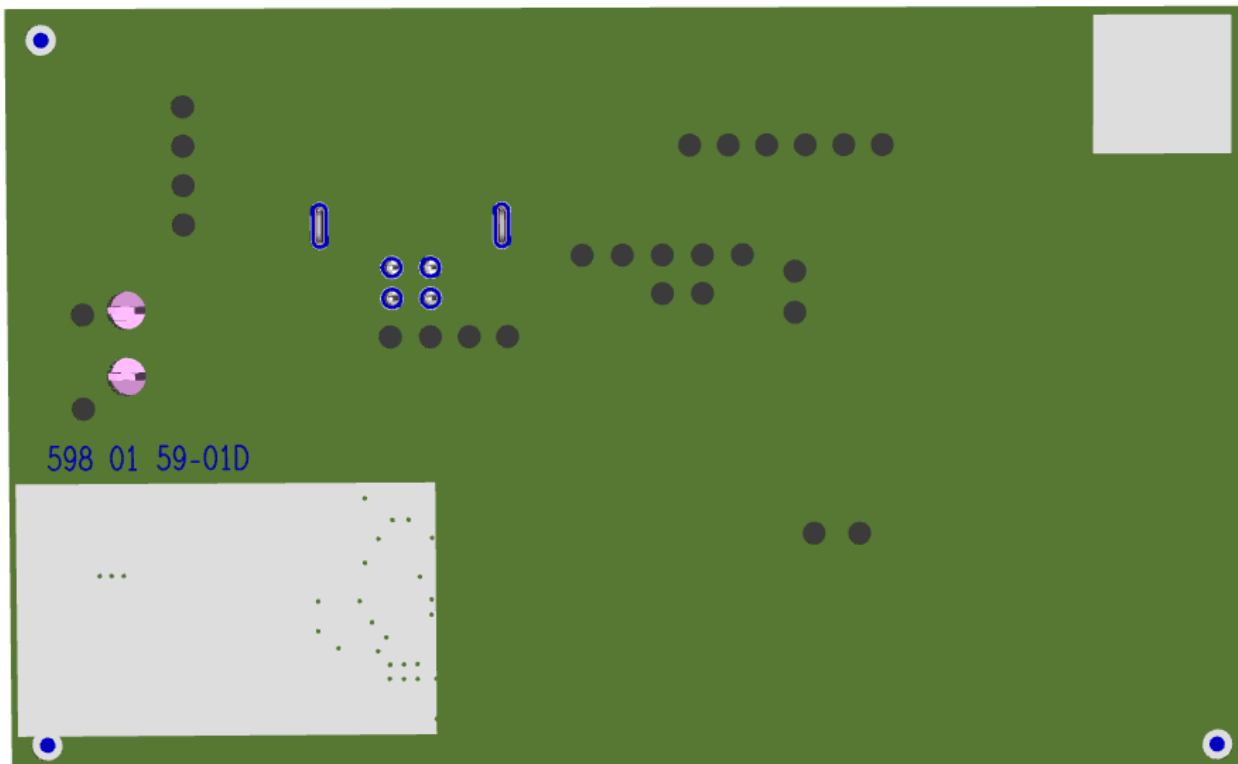


The text shall be placed in the **white** area on the bottom left side.

The QR-code shall be placed in the **white** area on the top right side.

(If the manufacturer of the PCB wishes to place his logo on the PCBA, this could be placed in the solder mask or on a label. It must not be placed in the copper layer.)

CPMS reporting of the produced part, including revision, must be done before delivery to Husqvarna, see further description in latest revision of ” 597180601 CPMS specification for vendors”



Components, PCB's and soldering:

Standard: IPC A-610-E class 2, or latest revision issued.

Compliance with RoHS /REACH.

Item shown in BOM must not contain substances classified as "banned" or "restricted" according to Husqvarna Group Restricted Materials List (see, "www.purchase.husqvarna.com").

Mechanical outline requirements:

Tolerances in x- and y-direction are ± 0.25 mm.

Production requirements:

AOI:

- Must be used on every board after SMD and THD soldering process.
- Equipment must be able to inspect according to PCBA layout drawings supplied from Husqvarna.

X-ray:

- X-ray must be done on components that can't be verified in AOI.

FCT:

- Husqvarna will supply with a PTS spec that every board must be tested according to.
- Supplier/Manufacturer (or third party to them) of the PCBA must develop a test system according to the PTS and be responsible of the maintenance of that.

Coating:

- Coating must be done in a robotic system.

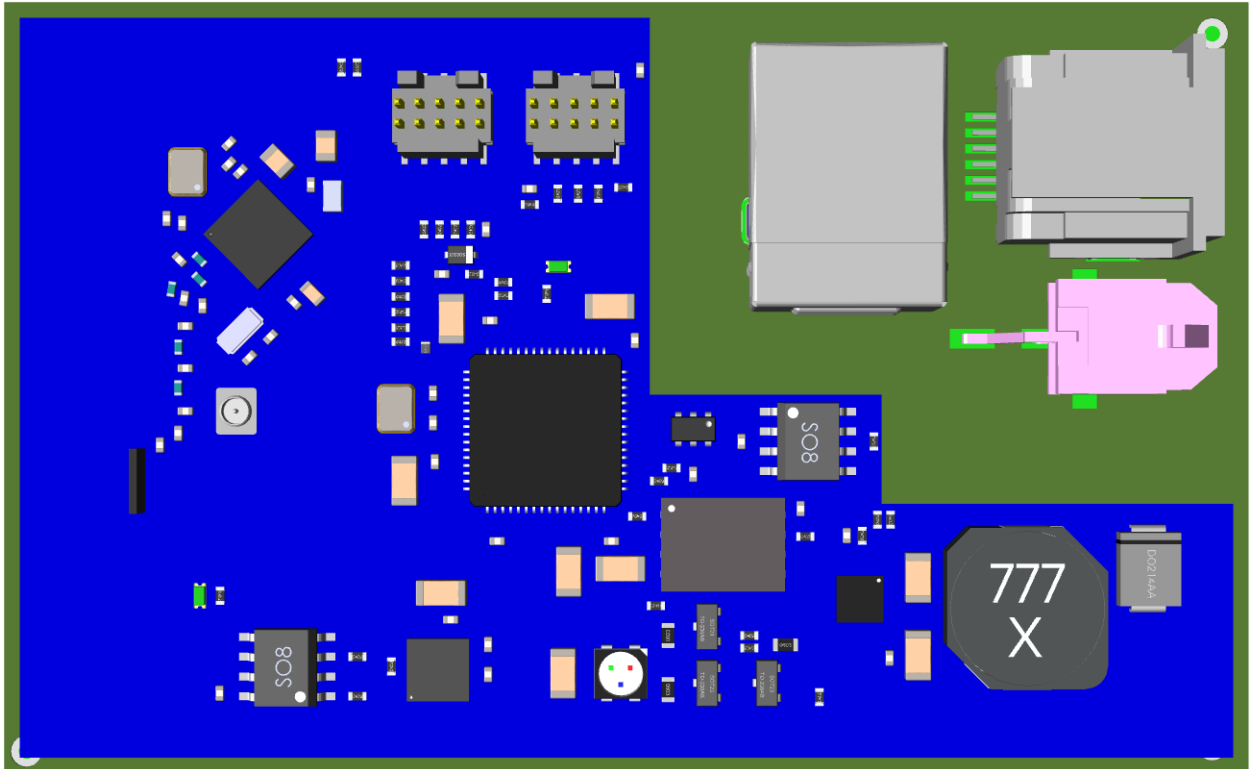
Traceability:

All boards must be possible to be trace on board level.

Note, If upper points couldn't be achieved Husqvarna must be notified for further discussion.

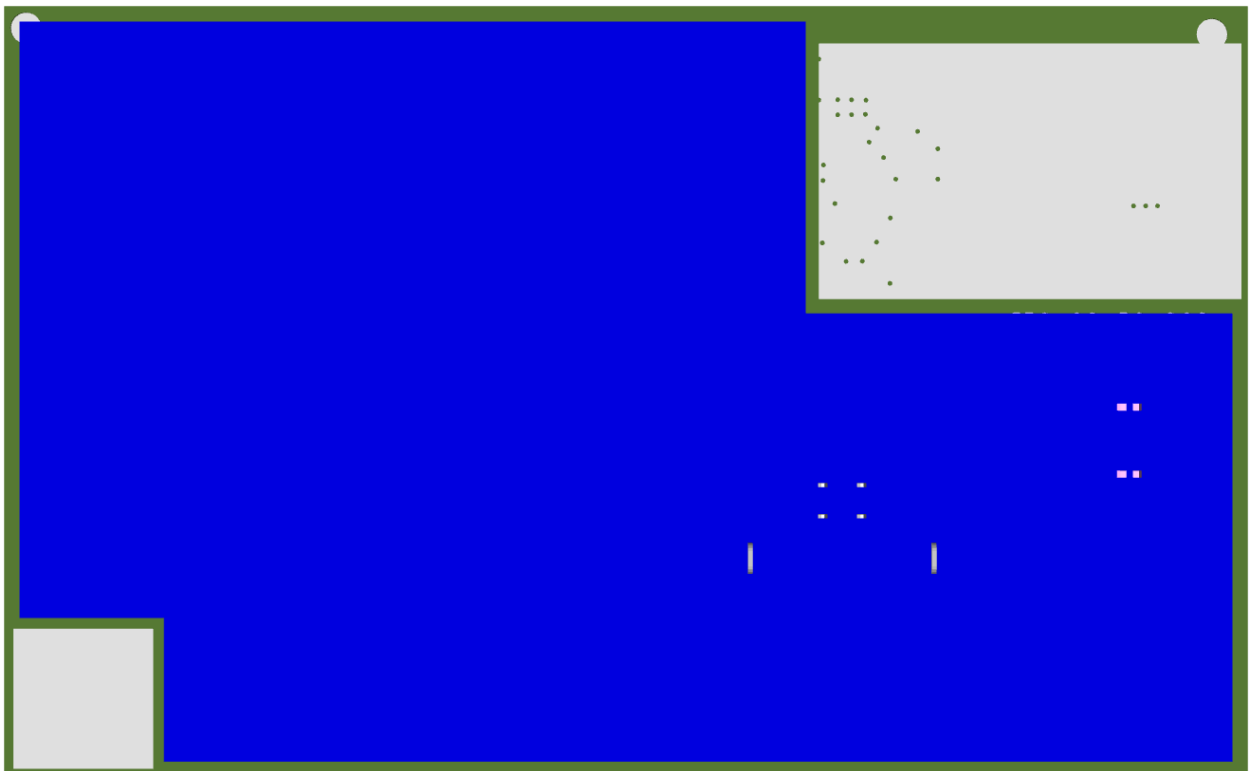
Coating instruction:

Component side:



The coating layer on the component side, shall be applied in the **blue** area.

Bottom side:



The coating on the bottom, shall be applied in the **blue** area.

Revision History

Revision	Date	Issued by	Comments
Draft A	2019-08-30	Niklas Landin	New release
Draft B	2019-12-11	Niklas Landin	Minor changes in layout. New coating instructions. New label instructions.
Draft C001	2020-02-24	Niklas Landin	Changed Radio certification text.
Draft C002	2020-06-02	Niklas Landin	Edited the marking of the PCBA to include HID.
Rev C	2020-06-11	Niklas Landin	Removed washing requirements and added
Rev D	2020-09-03	Niklas Landin	New coating instructions and bigger area for label.
Rev E	2020-10-14	Niklas Landin	New coating instructions.
Rev F	2020-10-26	Niklas Landin	New revision.
Rev G	2020-12-15	Niklas Landin	Added how the HID should be presented in the QR-code