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5979774-PCBA Spec-Application Board Type 3	597 97 74	2020-10-12	1 (6)
<i>Issued by</i>	<i>Project</i>	<i>Doc type</i>	<i>Rev</i>
Magnus Berggren	Robotic Mower P25	Prod doc	D.001

597 97 74-PCBA Spec-Application Board Type 3

Product Marking of PCBA:

QR field:

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

- A QR code, min 7x7mm, 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.

Text field:

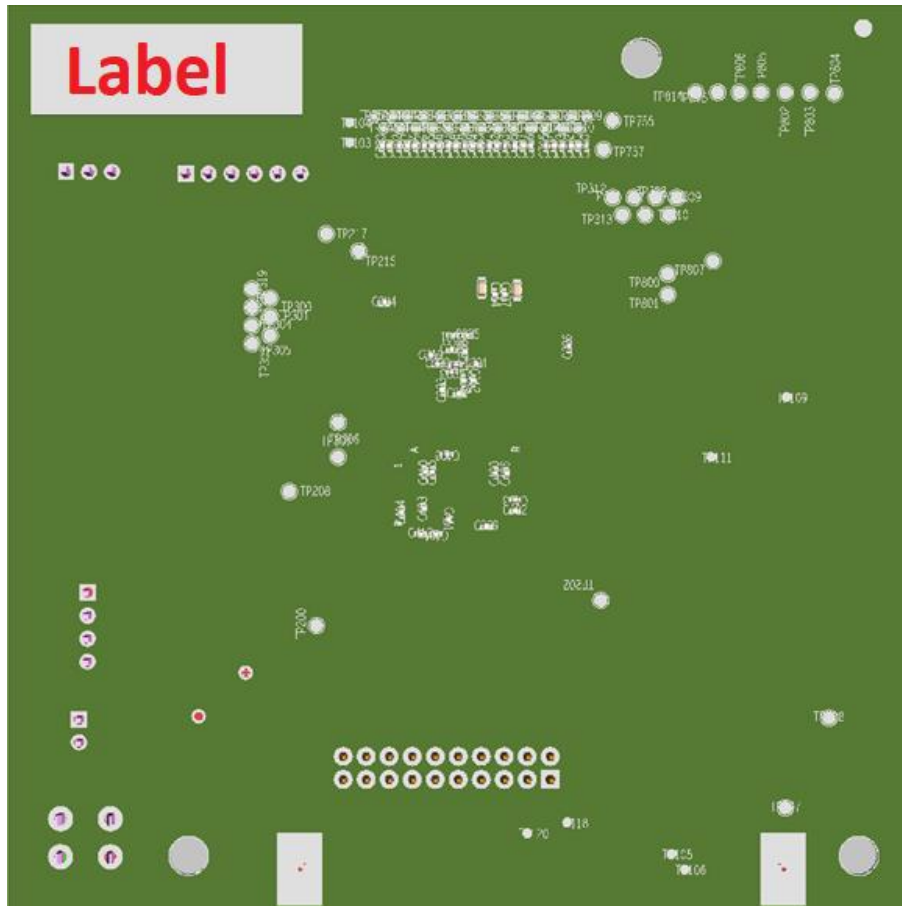
- Product name, (“Application Board Type 3”)
- Part number for the assembly, (“597 97 74-01”)
- Revision for the assembly, (“same as the (first) letter in PCBA revision according to BOM”)
- HID
- Radio certification text:
 - “FCC ID: ZASHQ-BLE-1G”
 - “IC:23307-HQBLE1G”

Example of label:

QR	Application Board Type 3 597 97 74-01 Rev yy HID: xxxxxxxxxxxxxxxxxxxxxxx FCC ID: ZASHQ-BLE-1G IC:23307-HQBLE1G Supplier specific code
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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”.

The label shall be placed inside in the white area of the back side of PCB.



(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.)

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.
- First and last board in a batch must be X-rayed. If the batch is > 500 pc, then each 500th board must also be x-rayed.

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.

BT:

- BT tests, DUT must be placed in radio frequency shielded box to not interfere or be disturbed with other equipment.

EOL:

- EOL testing would be done on complete assy level including plastic cover or on a single coated PCBA if used as spare parts.

Washing:

- Boards must be washed before coating.

Coating:

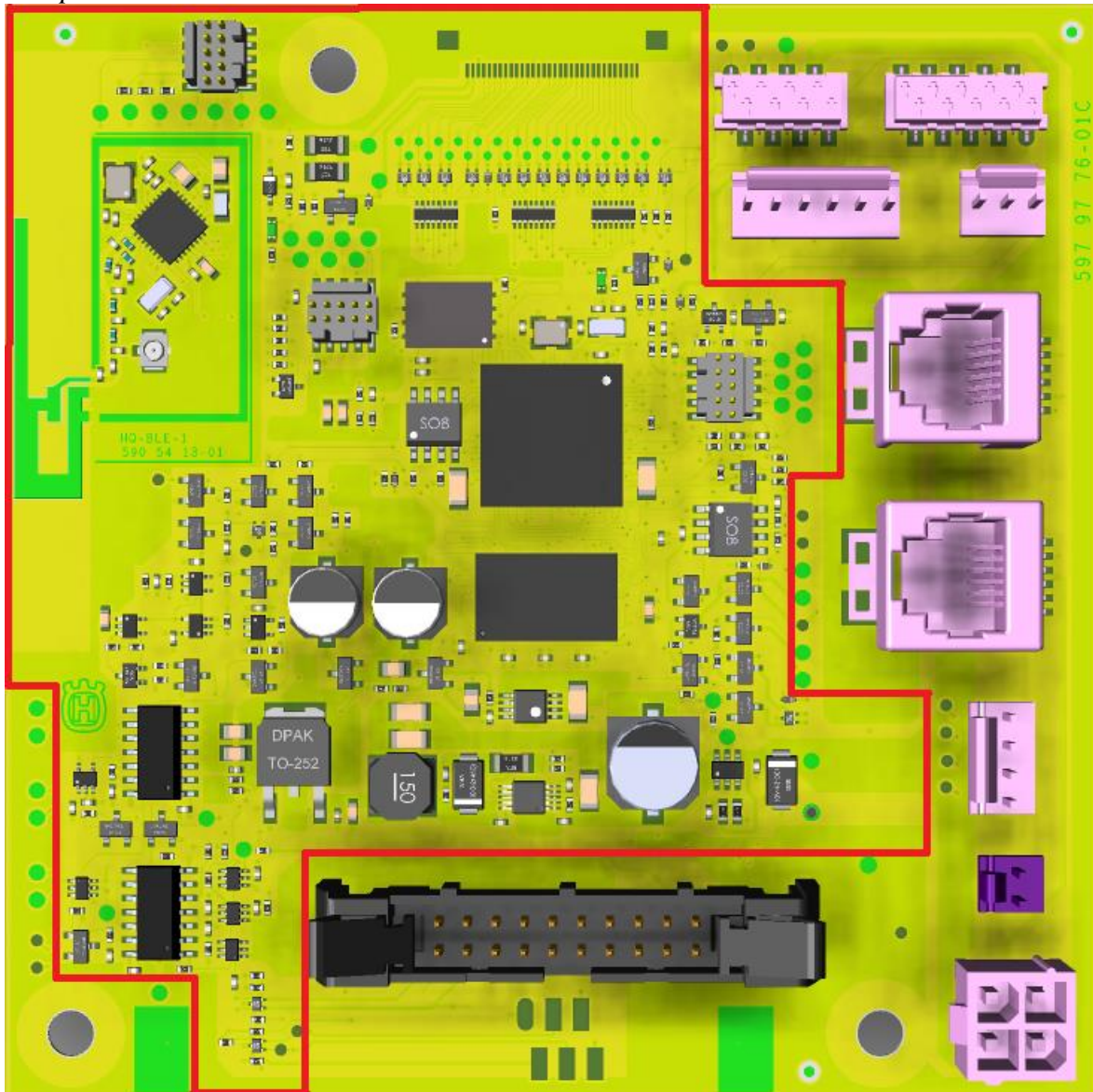
- Coating must be done in a robotic system.

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:

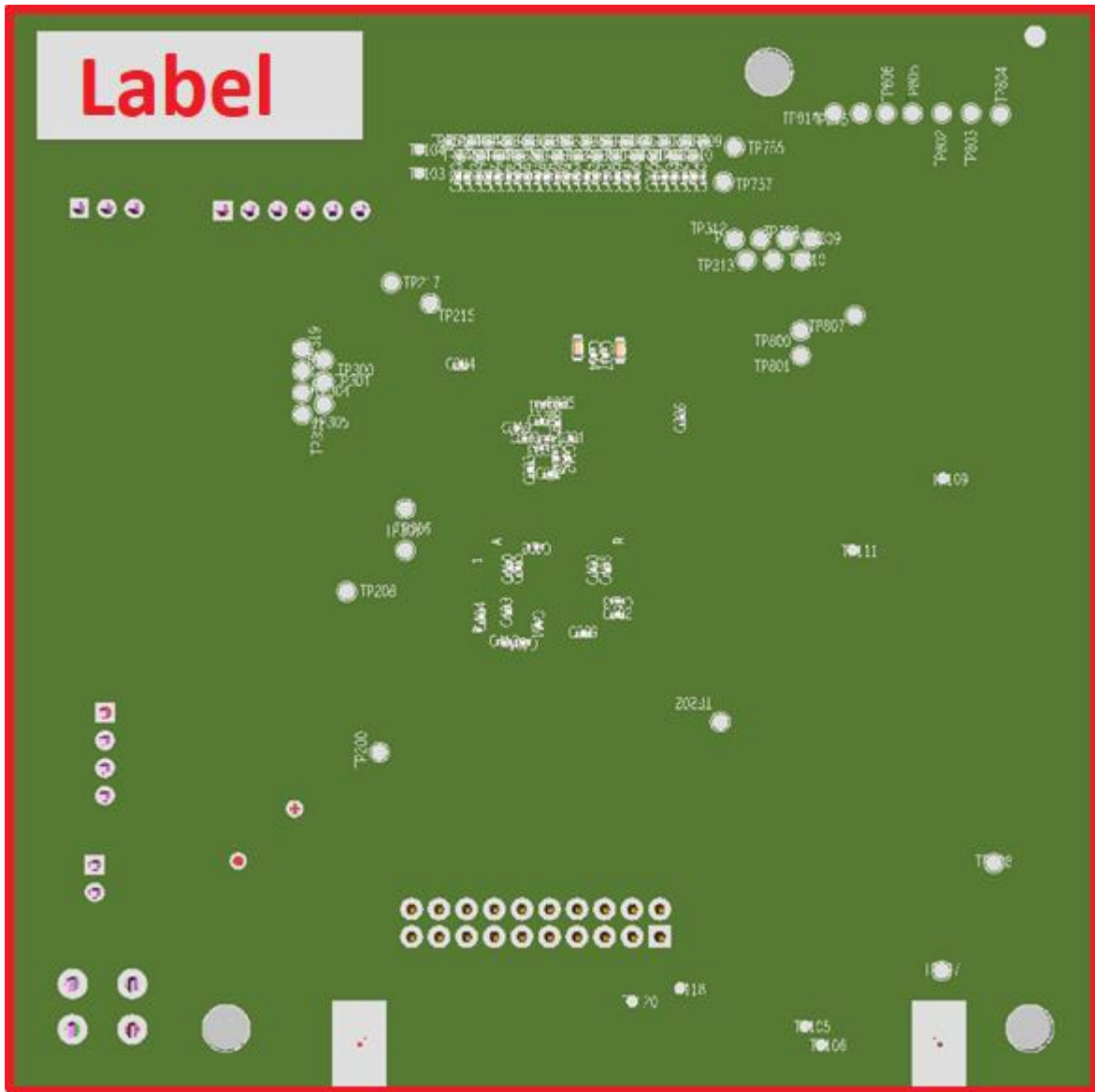


The coating on the component side, shall be applied inside the **red** box .

(Note: All components in picture might not be mounted)

Coating instruction:

Bottom side:



The coating on the component side, shall be applied inside the **red** box. (Complete backside will be coated).

Note: Pictures in above specification are for reference use only and could have minor changes compared to latest release revision of board.

Revision History

Revision	Date	Issued by	Comments
A.001	2019-11-27	Magnus Berggren	First draft.
A	2019-12-04	Magnus Berggren	Not used / Released.
B	2019-12-04	Magnus Berggren	Release
Draft C	2020-06-23	Magnus Berggren/JoÖ	Radio cert rev changed to rev G. Radio cert text updated.
Release C	2020-09-09	Magnus Berggren	Updated with HID info on label. Release.
D.001	2020-10-12	Magnus Berggren	Removed "Assy test". Updated PCBA picture for coating instructions Component side.