

DHS780 Rework Procedure

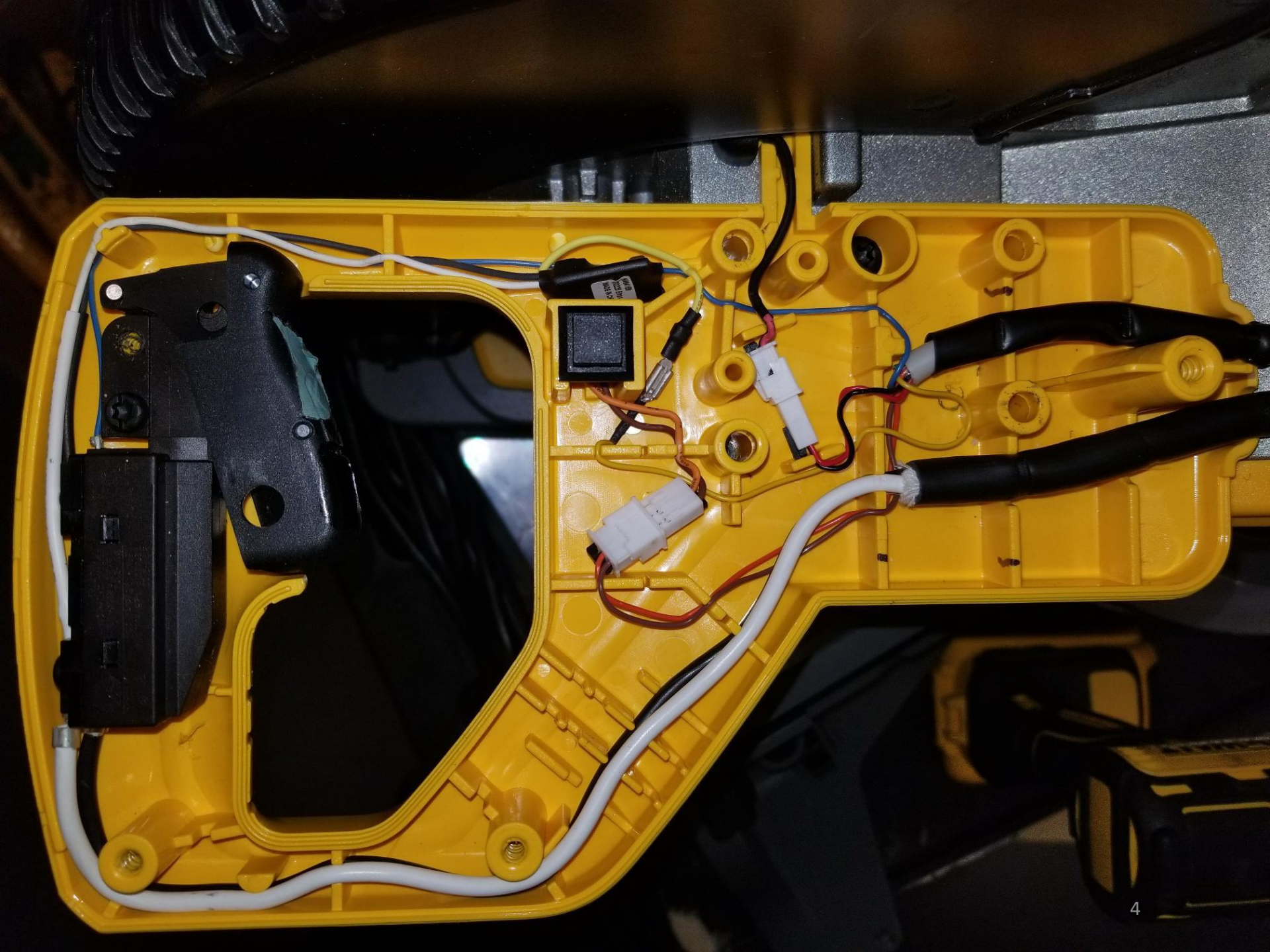


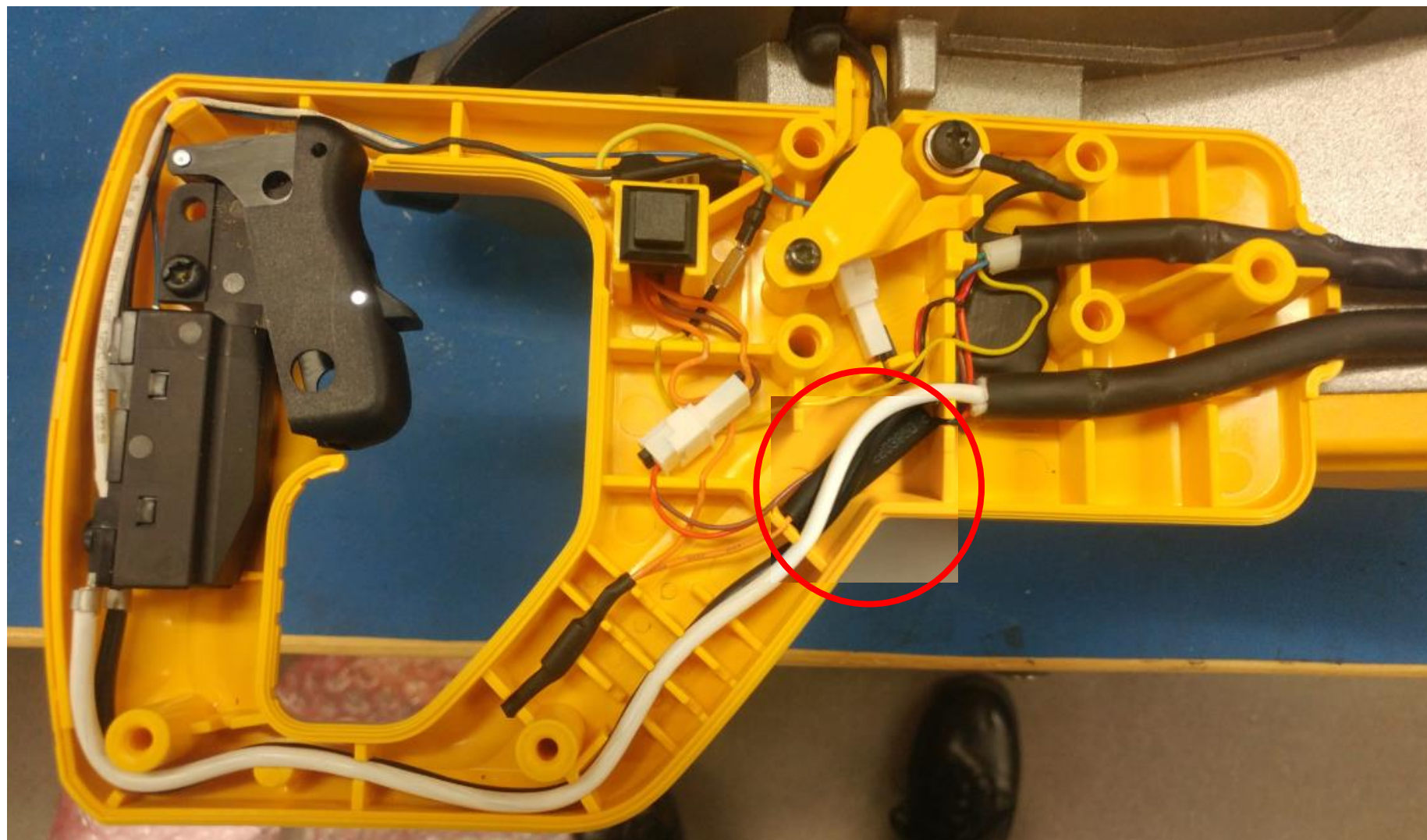
Initial Check

- Remove handle cover (slide 3) and check if the upgrade has been fitted.
- No upgrade - Slide 4 - replace motor if required (slide 20) - go to Slides 6 to 24
- Upgraded - Slide 5 - check PCB SA (slide 9) replace if necessary – replace motor – check connectivity and belt tension (slides 19 to 24).
- Part Numbers
 - Motor SA N631879
 - ESD Kit N599679
 - PCB N494159
 - Rating Plate N457630
 - Label “Brushless” N460811
 - Label “FlexVolt” N457632

Remove all screws.







2 Wiring harness Addition

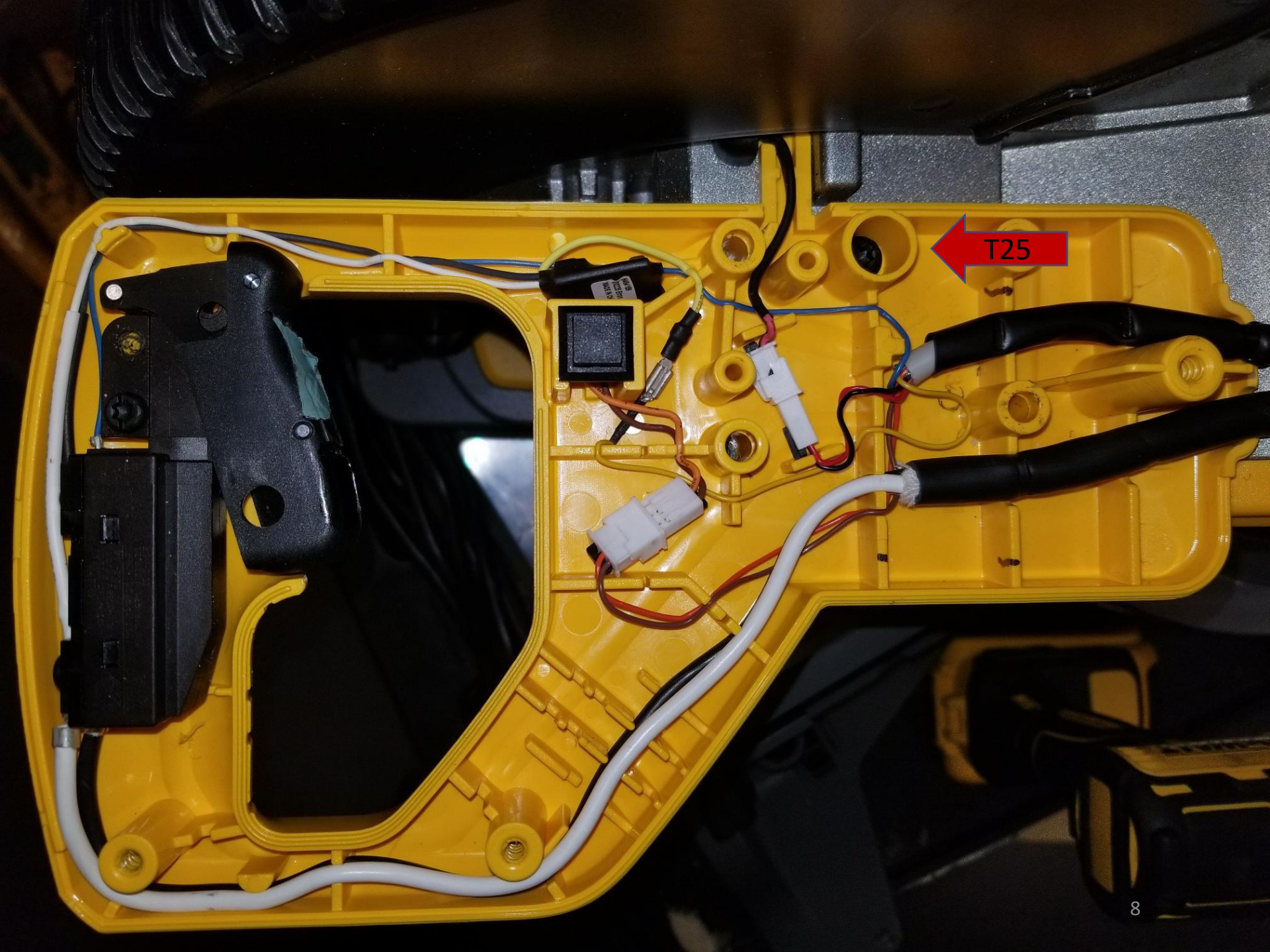
- Add ESD circuit
- Green dot inside handle
- Check belt tension
- Perform operation test (with adapter) –

Remove Pushbutton Cover from top side handle housing and insert into new top side handle housing.

Discard old top side handle housing.



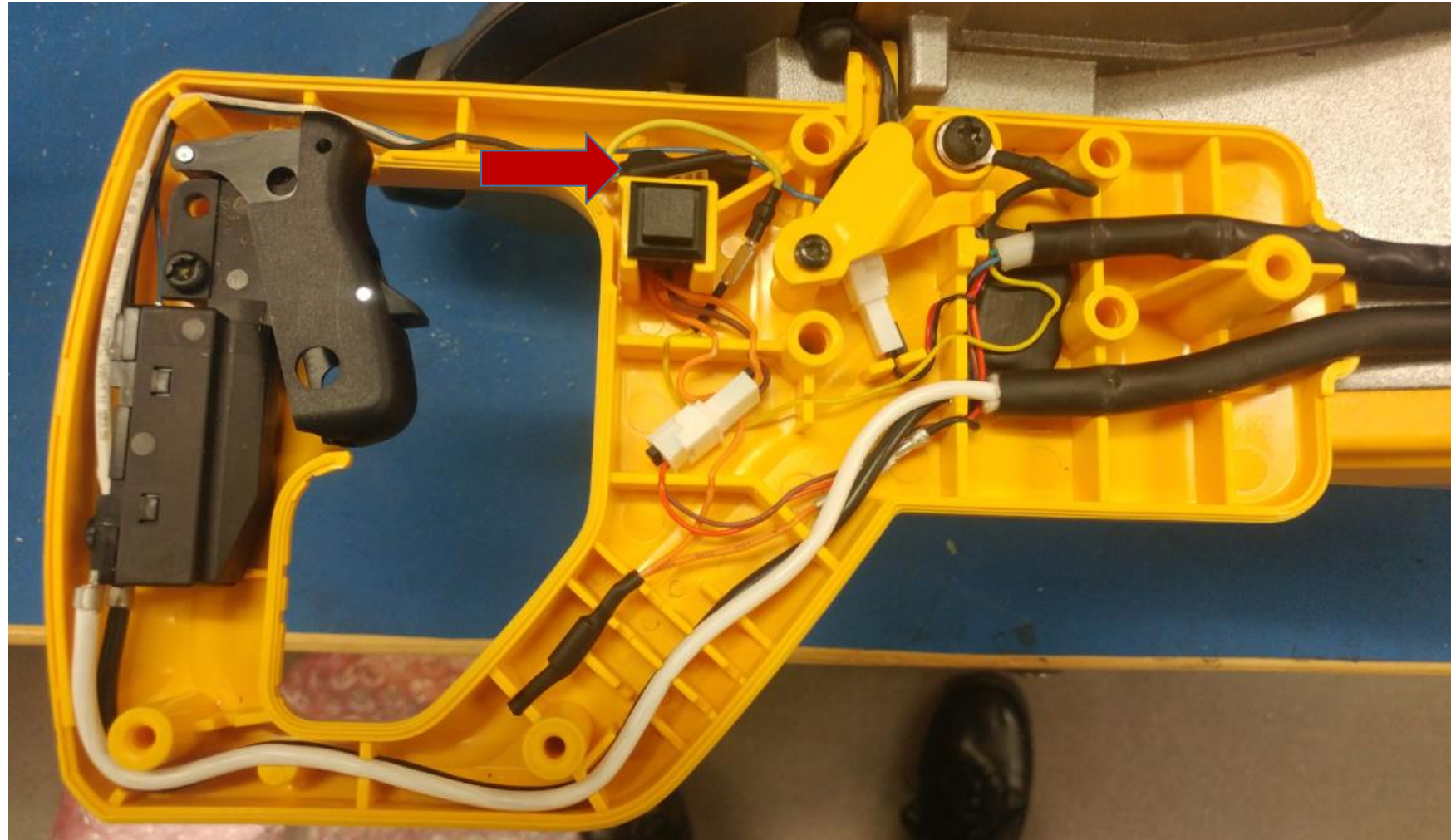
Remove handle retention screw and discard.



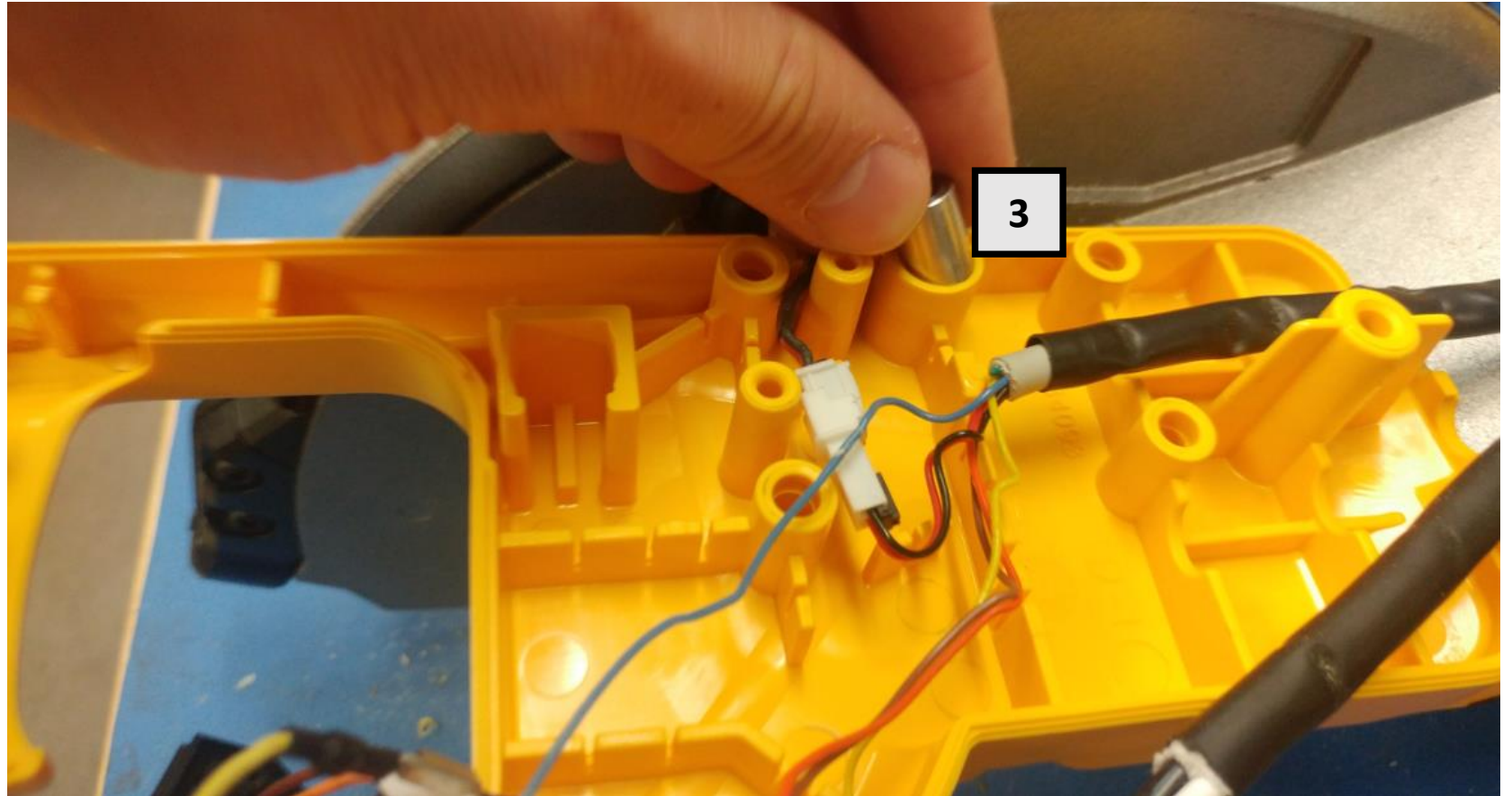
Check the PCB SA assembly N494159

PCB SA

If the PCB SA has a hole or hot spot –
replace the PCB - N494159



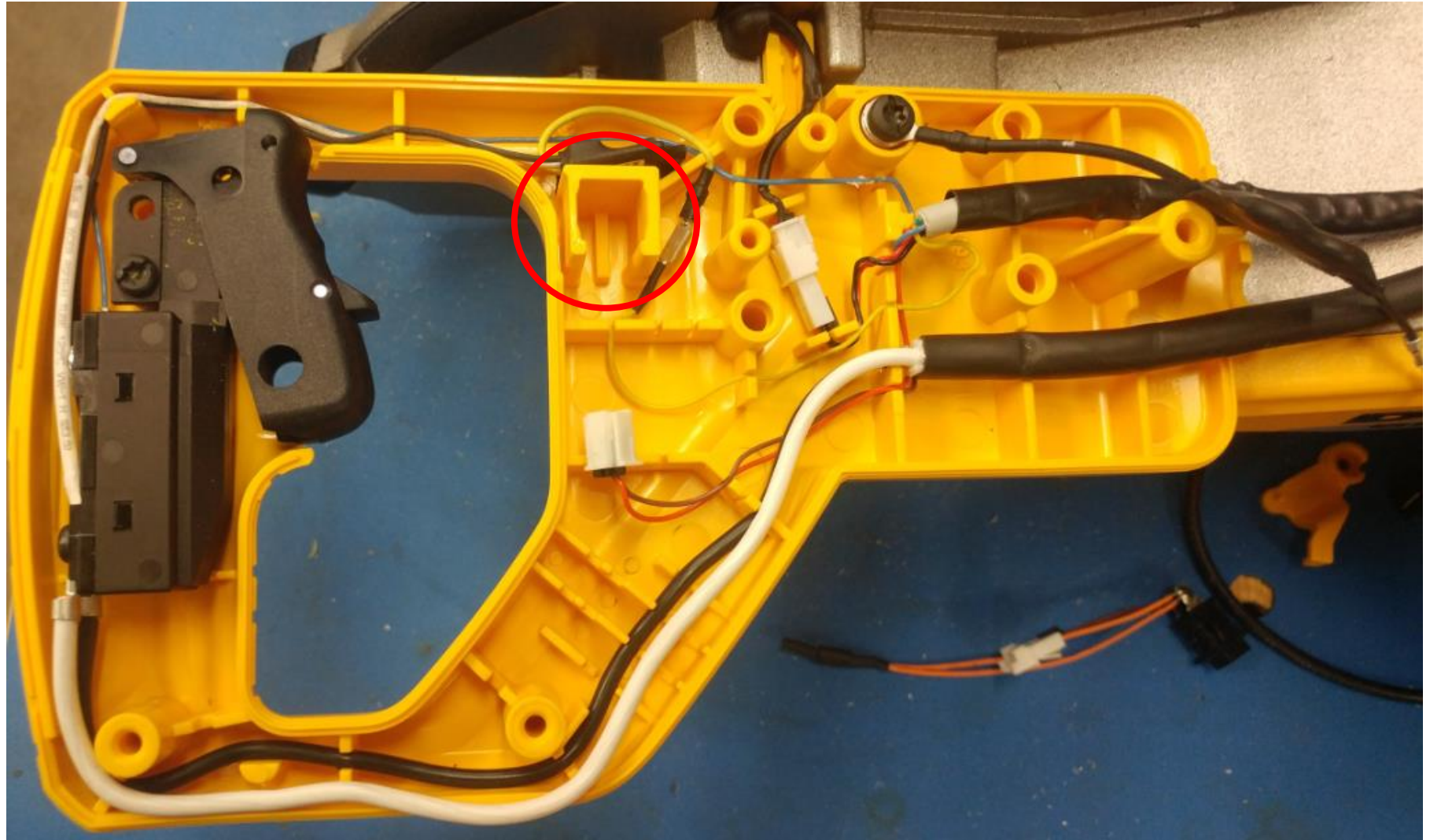
Insert Metal Standoff.



Secure Y-cap harness with screw through star-ring terminal on top of metal spacer. Make sure ring terminal connection exits at an angle to the housing as shown in image.



Disconnect, remove and discard old pushbutton wire harness. Temporarily move pushbutton connector wires out of retention slots.



Insert Y-cap assembly into pocket beneath cable harness with additional service loop.



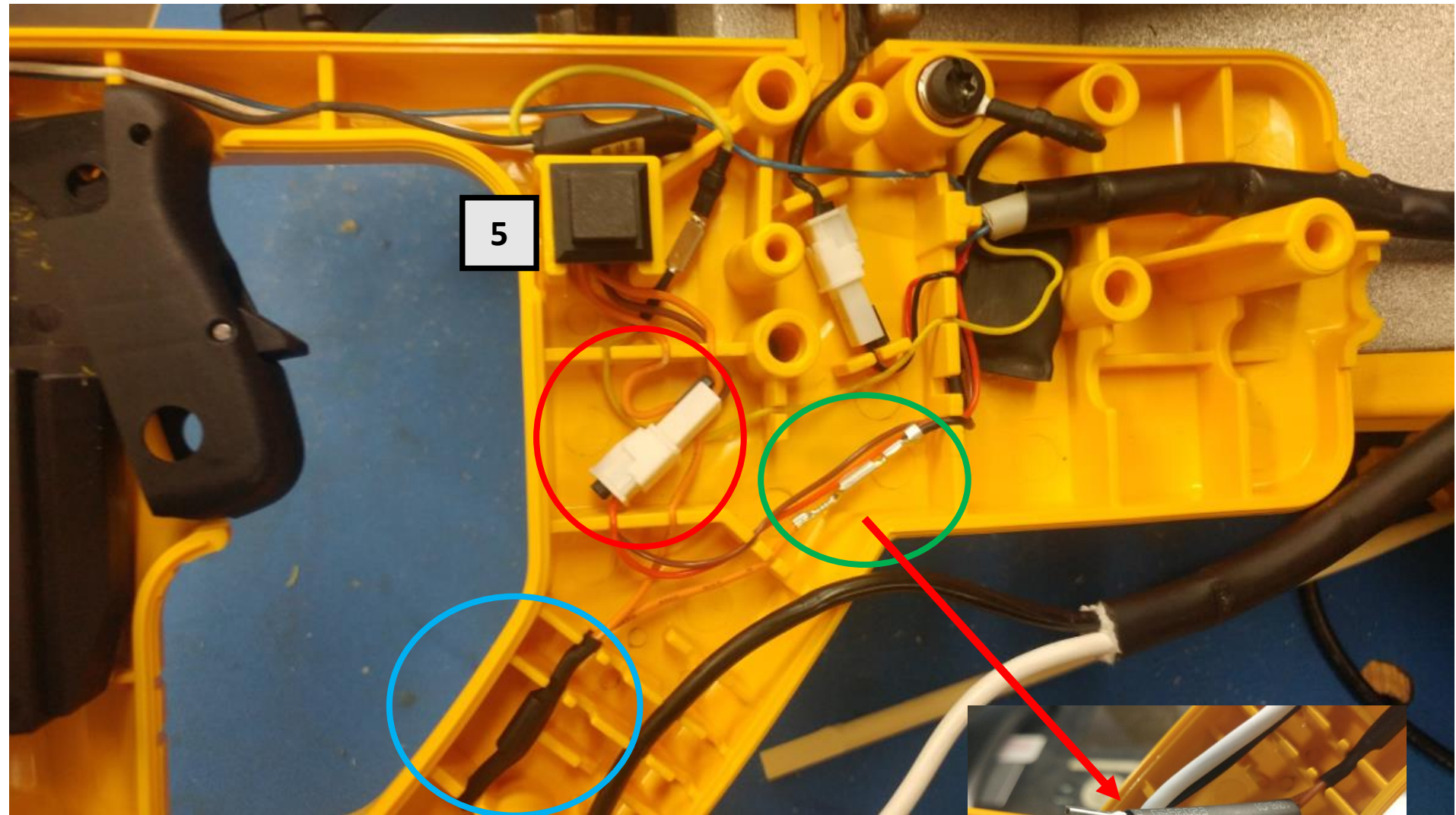
Insert new pushbutton into housing.

Connect pushbutton harness connector (circled in red)

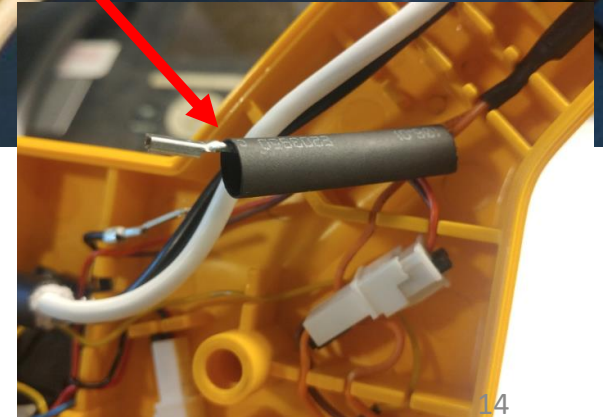
Connect female pushbutton harness fast-on to male Y-cap harness fast-on (circled in green)

Insert heatshrink wrapped resistor into bottom handle slots (circled in blue)

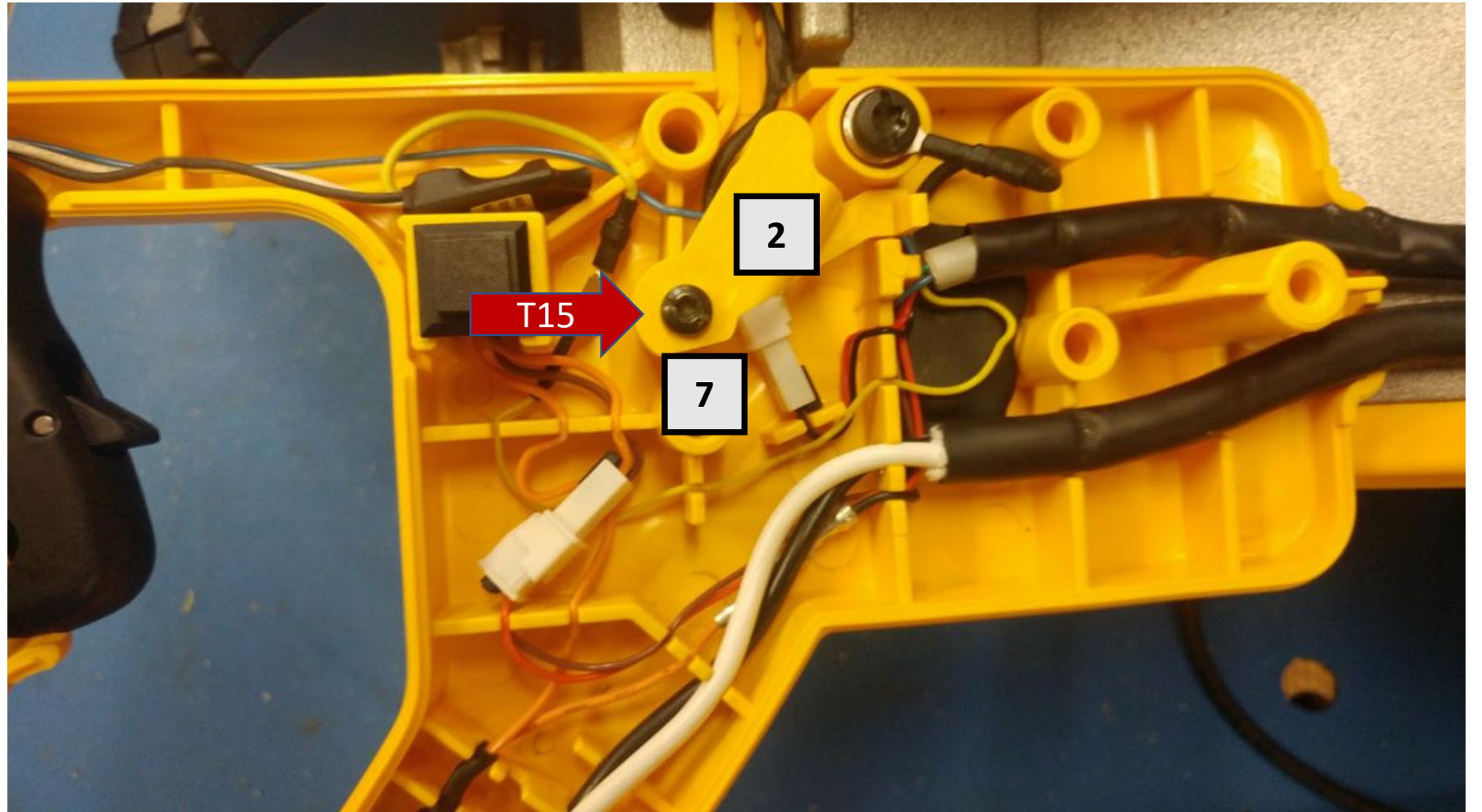
Insert all wires into retention slots as shown in image



Place heat-shrink tubing (35mm length, 4.7mm diameter) over pushbutton side of assembly before making connection.

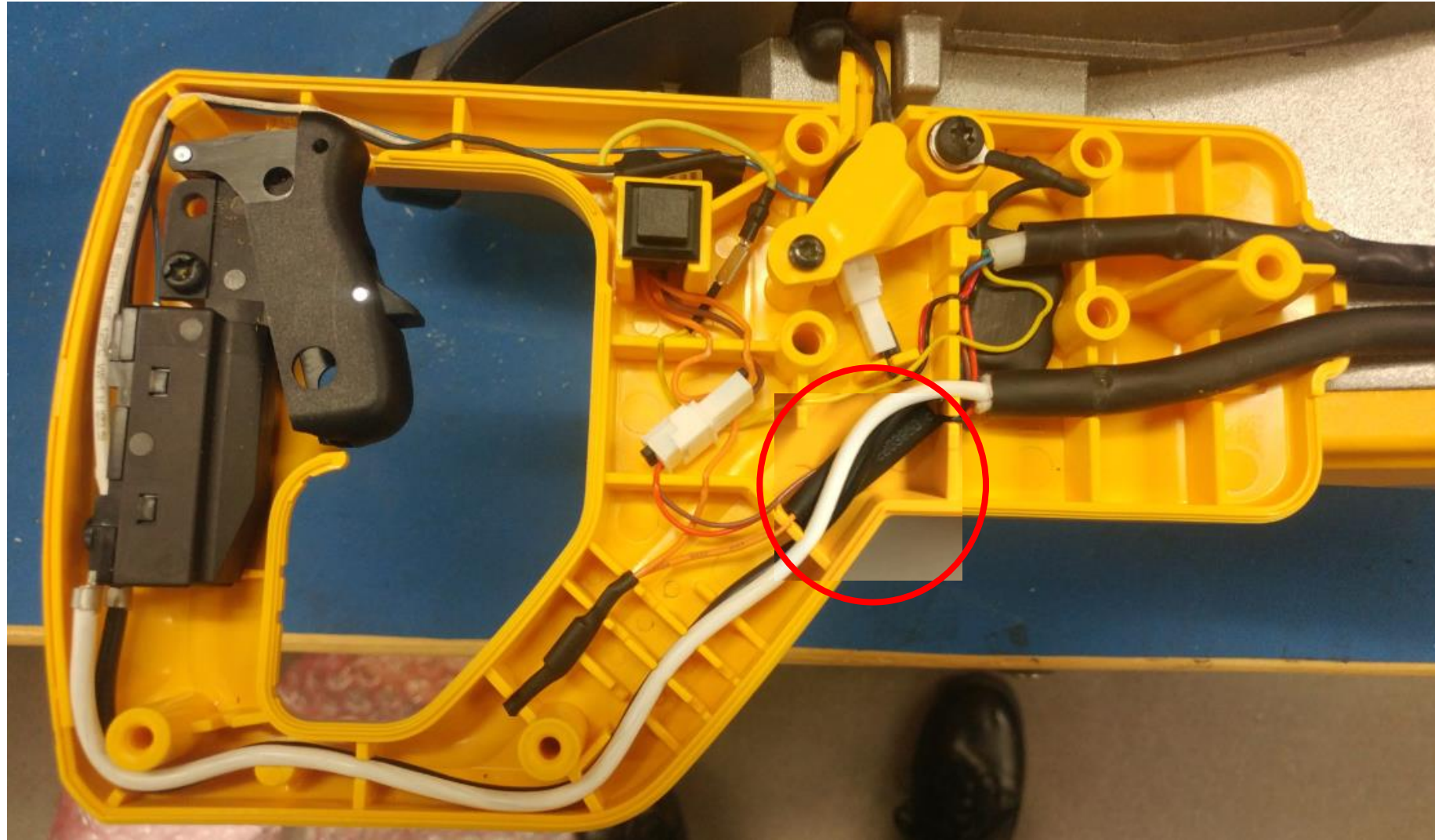


Install terminal limiter
plastic piece and secure with
screw.



Secure tool switch wires in retention slots overtop of fast-on connection as shown in image (circled in red). Tubing must be in place but shrinking is not required

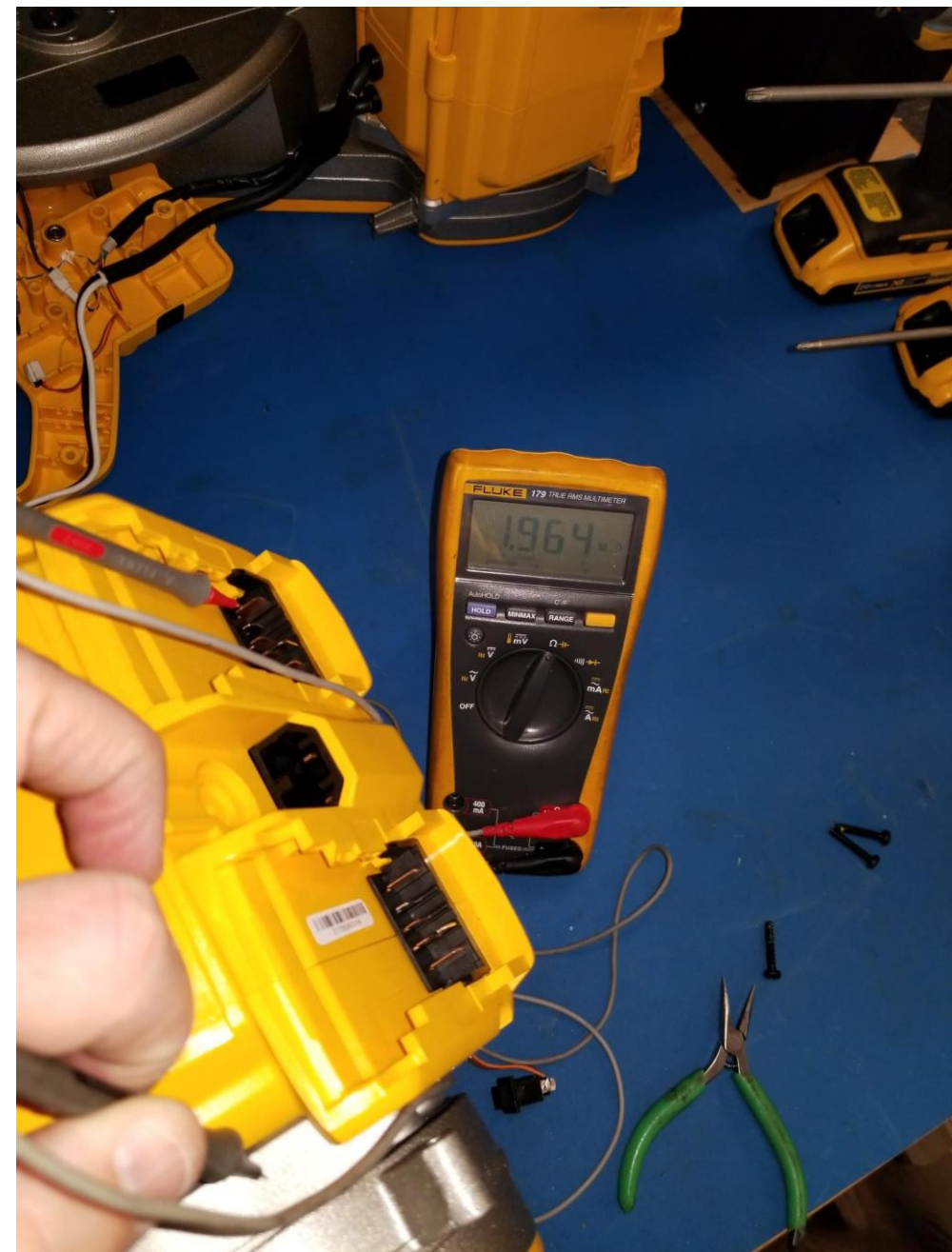
Verify that all other wires are retained in wire traps as shown



Reassemble top housing
using new top handle
cover



To ensure circuit is properly connected, check resistance between B+ terminal and the Base/Frame. Resistance should measure ~2Mohms



Motor replacement and Belt Tension Check

Remove belt cover by removing 3 T25 Bolts.



Motor Replacement Belt Tension Check

Remove the AC Adaptor Securing Strap and T25 Tensioning screw from the old motor.

Replace motor.

Please Note:

The new motor does not come with threaded screw holes – the screw will cut its own thread.



Motor Replacement Belt Tension Check

To ensure circuit is properly connected, check resistance between B+ terminal and the Base/Frame. Resistance should measure ~2Mohms



Motor Replacement Belt Tension Check

Strum the belt as shown.

Passing range:

102Hz- 109Hz when motor installed

80Hz – 109Hz after 30 seconds run in



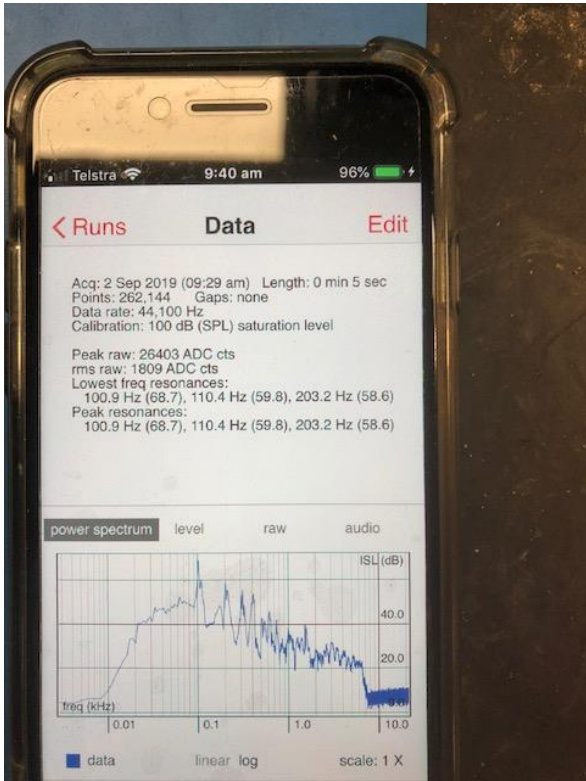
Motor Replacement Belt Tension Check

Measure the frequency of the sound produced.

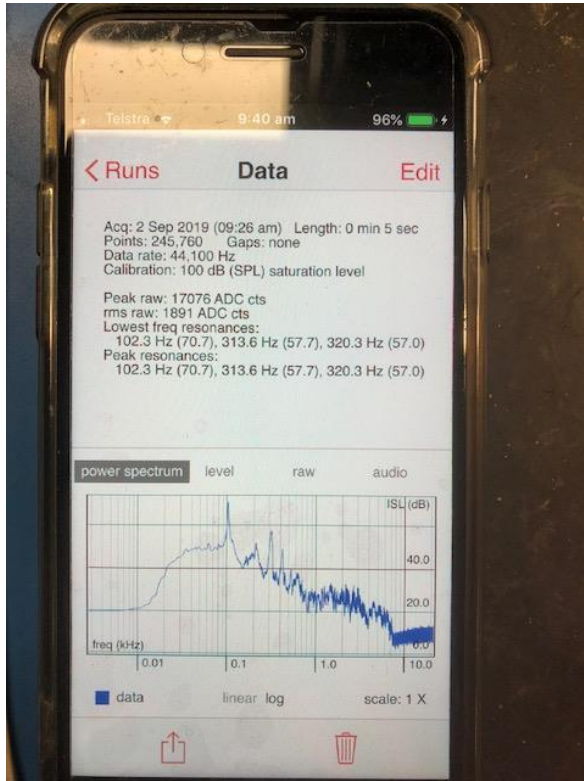
I used the VisualAudio Spectrum Analyzer – though you can use any hand held frequency meter. I used the record and the view data functions.



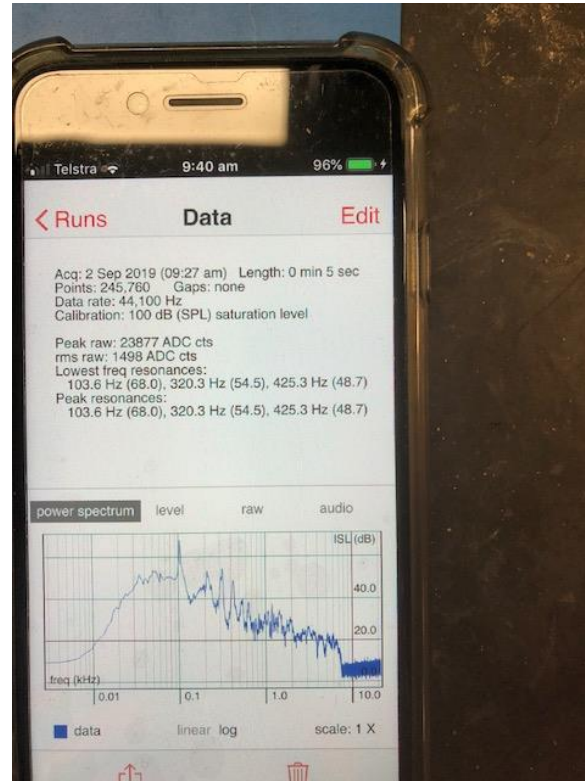
Belt Tension Check



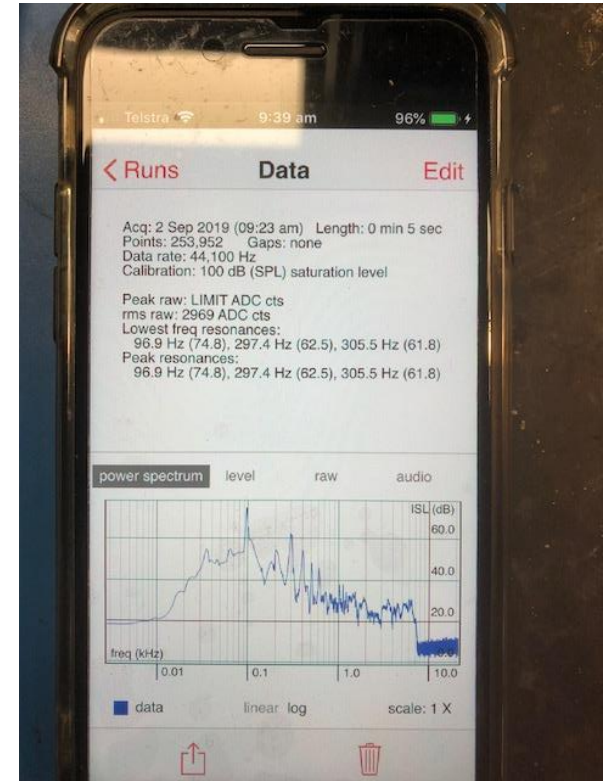
After motor
installation
Not in range



After motor
installation
In range



After motor screws
tightened
In range



After motor has run for 30
seconds
In range

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