BATTTERY DISSASEMBLING INSTRUCTIONS
FOR SONY KONION US18650VTC4
(FROM MAKITA RECHARGEABLE BATTERIES 18V 3A AND OVER)

(COURTESY AND SPECIAL THANKS TO STÉPHANE A.K.A DOCTORBASS)

https://www.youtube.com/watch?v=Oz6Uis05ewA

TOOLS REQUIERED :

_ PROTECTIVE GLASSES
_ DRILL
_ SMALL FLAT SCREW DRIVER
_ MEDIUM SIZE FLAT SCREW DRIVER WITH INSULATION
_ MEDIUM SIZE PHILLIPS SCREW DRIVER
_ T-10 TORX SCREW DRIVER OR DRILL BIT VERSION (WITH THE TAMPER PROOF NIPPLE)
_ DREMEL WITH CIRCULAR BLADES 1/64''
_ SIDE CUTTER
_ METAL DRILL BIT 3/16''

DISSASSEMBLING THE BATTERY :

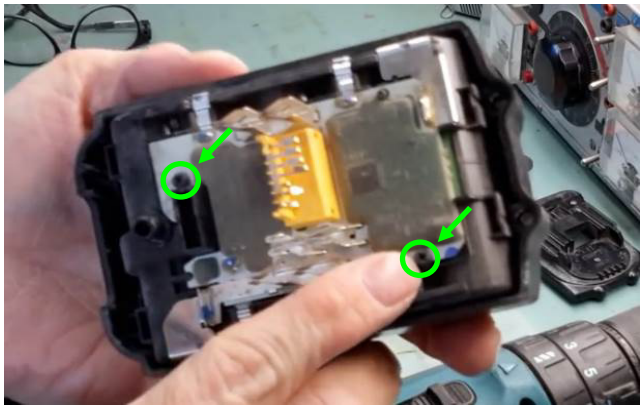
1. OPEN THE CASE… (2 METHODS)

   A. EITHER USING THE DRILL TO REMOVE THE WHITE PLASTIC ANTI-PIRACY PLUG LOCALTED IN ONE OF THE 4 SCREWS HOLES…

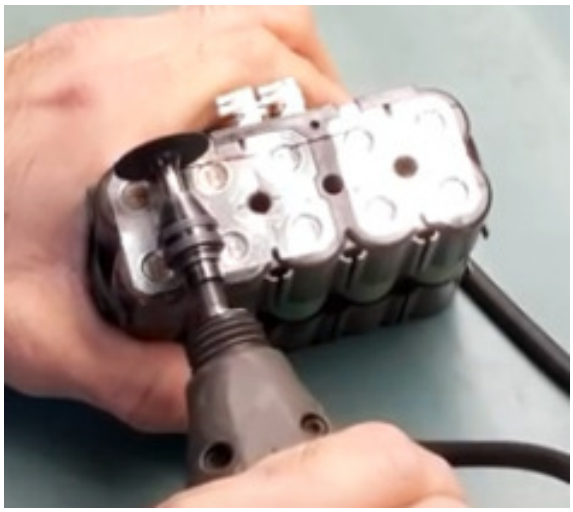
      THEN YOU REMOVE THE 4 TORX SCREWS.

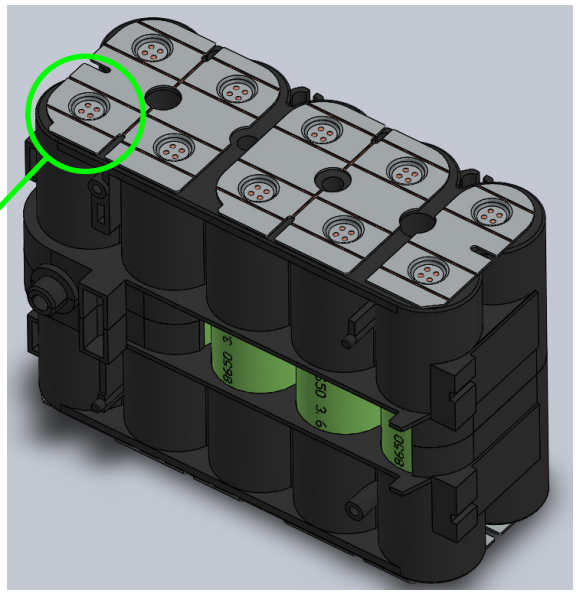
   B. OR YOU UNSCREW THE 3 AVAILABLES TORX SCREWS AND YOU GENTLY CRACK OPEN THE CASE AND THE LAST CORNER REMAINING WILL COLLASPE (ENSURE YOU WORK OVER A TABLE OR WORKBENCH TO AVOID LOSING SMALL INTERNAL PARTS)

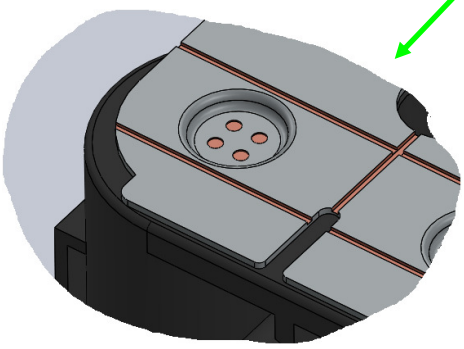
2. ONCE THE COVER REMOVED… THERE ARE 2 SMALL PHILLIPS SCREWS TO REMOVE.



3. THE BATTERIES NEED TO BE SEPARATED FROM THE BMS (ELECTRONIC CIRCUIT) AND THE CASE…
   THE NICKLE PLATE (TOP AND BOTTOM) MUST BE CUT WITH THE DREMEL… ACCORDING TO THE PATTERN SHOWN BELOW…

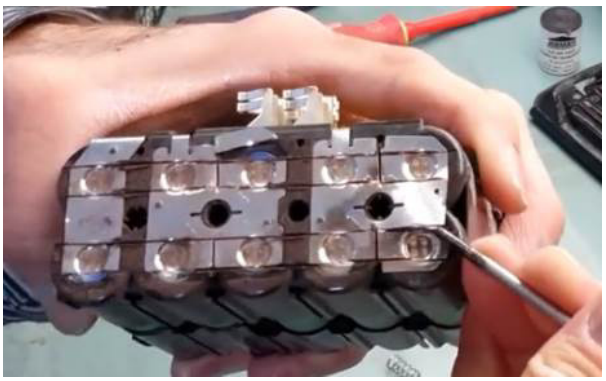


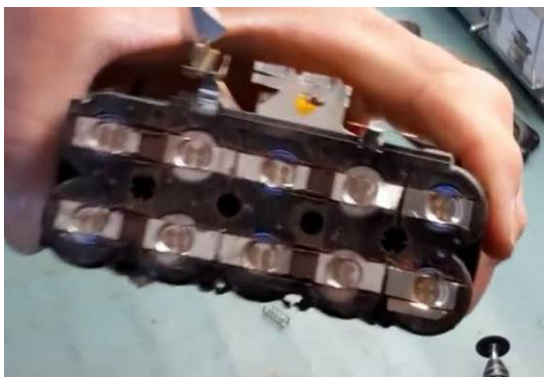




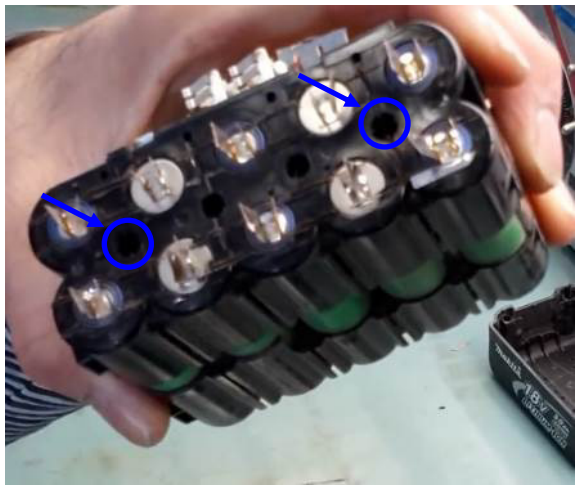
***ATTENTION *** DO NOT CUT TOO DEEP WITH THE DREMEL… THE NICKEL PLATE IS VERY THIN AND YOU MIGHT DAMAGE THE CELLS. THE RIGHT WAY IS TO CUT LIGHTLY THE SURFACE UNTIL YOU SEE THE INSIDE COPPER ALLOY… (THUS IT WILL BE EASIER TO SEPARATE THE WASTE WITH A SMALL ISOLATED FLAT SCREW DRIVER OR COVERED WITH HEAT-SHRINK TO AVOID SPARKS WITH OTHER BATTERIES)

4. ONCE BOTH SIDE ARE TRIMMED… IT IS TIME TO REMOVE THE USELESS WASTE.

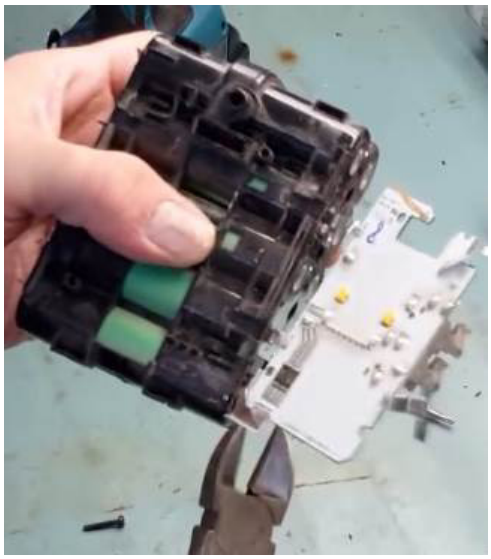




5. YOU WILL NOW (TEMPORARELY) FOLD THE REMAINING TABS AT 90° TO ALLOW YOU TO REMOVE THE CELLS FROM THE CASE… THERE ARE ALSO 2 TORX SCREWS TO BE REMOVED TO SPLIT THE CASING IN HALF.



6. REMOVE THE BMS… EITHER WITH THE SIDE CUTTER OR PRYING UNDER THE ELECTRONIC BOARD WITH A FLAT SCREW DRIVER.



AN OVERVIEW OF THE FIRST SIDE WITH ONE HALF OF THE CASE REMOVED.
THE CELLS ARE NOW REMOVED AND PLACE ON THE WORKBENCH.

7. LAST STEP… FOLD COMPLETELY THE TABS ONE ON THE OTHER WHICH WILL BECOME THE SOLDERING CONTACTS FOR THE CIRCUIT CONFIGURATION YOU CHOOSE AS DESIRED. (YOU CAN USED THE BACK OF THE SIDE CUTTER TO GENTLY SMOOTH THE TABS)

THE ESTIMATED TIME TO DISMOUNT THE COMPLETE CASING IS ABOUT 7 MINUTES… (FOR SOMEONE WHO GET USE TO IT).

NOW YOUR CELLS ARE READY FOR THE NEXT STEP… SUCH AS VERIFICATION AND PREPARATION OF YOUR BATTERY PACK.

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