

Fixing the Mercedes siren module

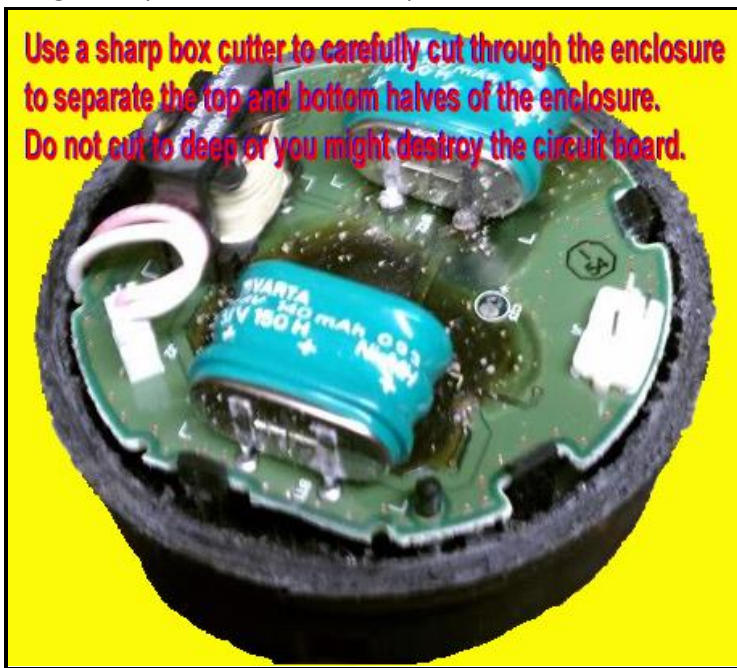
- 1) Remove the front driver's side tire (wheel).
- 2) Remove the plastic under-fender mud cover using metric socket #10 and #8.
- 3) Undo the bracket holding the siren module using metric socket #8.



- 4) Remove the siren module from the metal fastening bracket using a tamper-proof Torx hex star spanner tri-wing T35 bit (alternatively, you may try using a small Vice-Grip).



- 5) Using a sharp box cutter, delicately cut the siren module in half to get to the electronic printed circuit board.



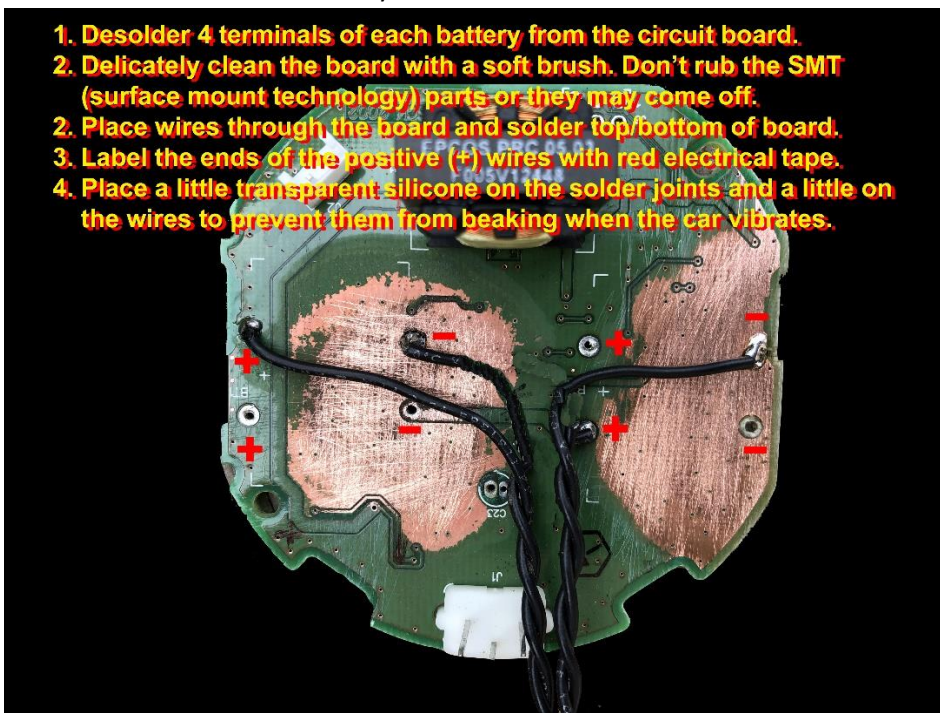
- 6) Unsolder the two on-board batteries (they are each oval and about ¼ the length of a AA battery).



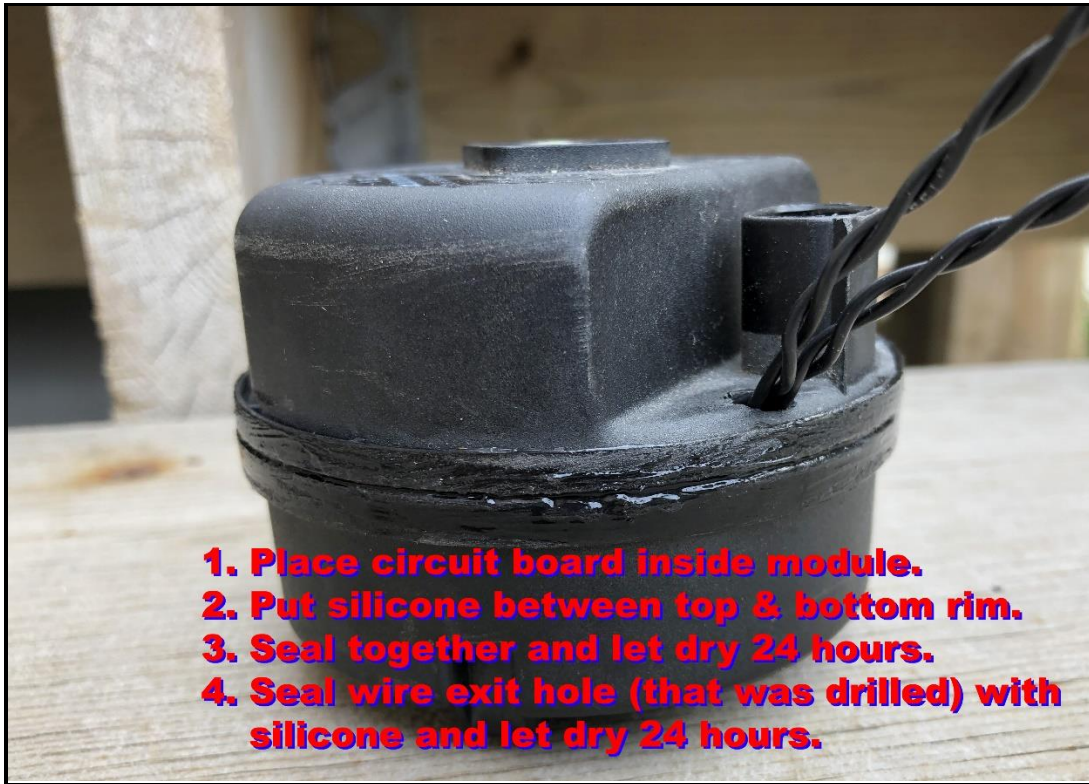
- 7) Carefully clean both sides of the board with a soft brush. Avoid any SMT (surface mount technology) electronic components or they may come off the board. If you feel they are covered with corrosion, brush very gently.



- 8) Solder 4 wires where the battery leads once were.



- 9) Place clear silicon on the solder joints and between the wires and the board to prevent the joints from breaking during vibrations.
- 10) Drill a hole in the top half of the cover to allow the wires to come out.
- 11) Place the printed circuit board back in the plastic housing cover and attach the siren horn cable to the circuit board.
- 12) Place the siren module cable (under the car fender) through the metal supporting bracket and connect to the siren module. This will ensure that the printed circuit board is aligned correctly inside before gluing both halves together.
- 13) Silicon both halves of the cover back together.
- 14) Seal the drilled cable hole with clear silicon.



- 15) Solder two 3.6-volt DC metal hydroxide (Ni-MH) batteries to the ends of the wires and use shrink tubing on each solder joint. The leads of one battery is soldered to the battery 1 wires (positive to positive and negative to negative), and the leads to the second batter is soldered to the battery 2 wires. Each battery costs about CDN \$14.00.



- 16) Secure the siren module back into the metal housing bracket using the T35 nut, then tie-wrap the cable around the bracket. *OPTIONAL: Extend the plastic drip pipe by slipping a 1-inch diameter black PVC semi-flex pipe (of about 6 inches long) around the original. This will prevent water from dripping onto the siren module.*
- 17) Place the two external batteries under the siren within the metal housing bracket. There is enough room to place the two batteries at 45° angles under the black siren.
- 18) Put a little silicon around the batteries to hold them in place inside the metal housing bracket.
- 19) Remount the siren module metal bracket back under the driver's side wheel fender.
- 20) Put the plastic mud wheel cover back on.
- 21) Put the tire (wheel) back on.
- 22) Verify the torque of the wheel lugs.