LMA409 V1.4 Update Guide

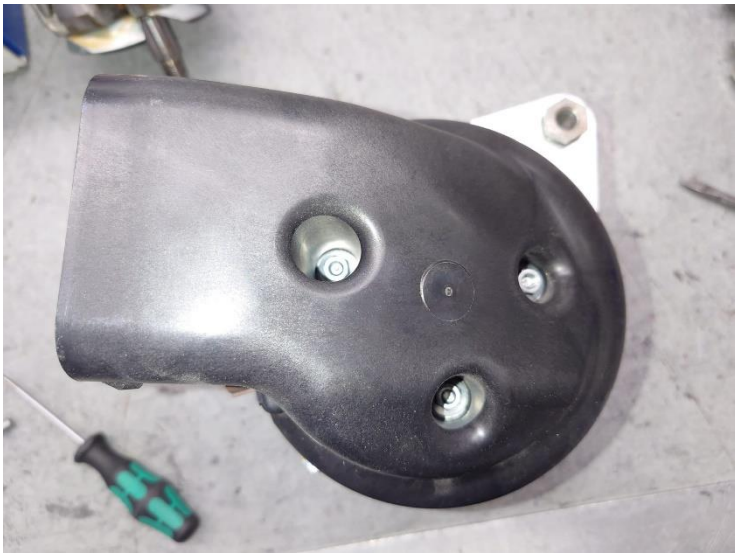

Figure 1

STEP 1: Remove the 3x 8mm hex nuts from the lid of the alternator as seen in the picture above.

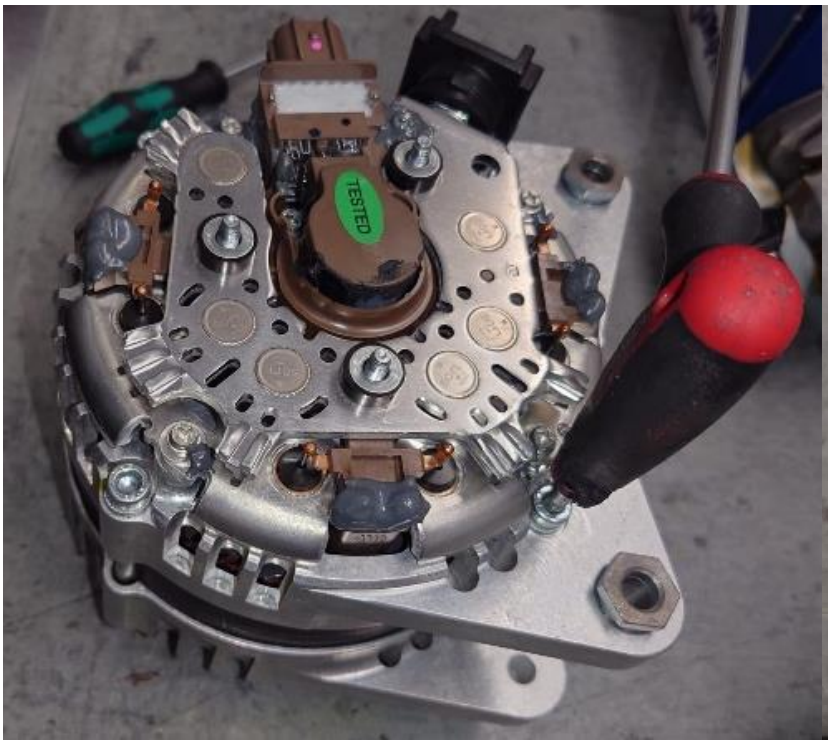

Figure 2

Figure 3

STEP 2: Undo the 4x M6 Cap screws from the 4 corners of the alternator, unwind and remove the bolts, as seen in Figure 2 and 3.

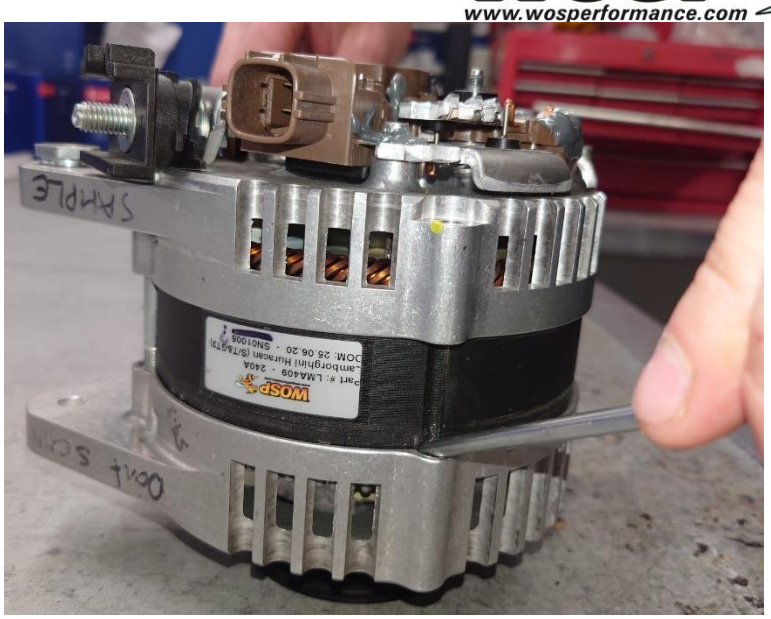

Figure 4

Figure 5

STEP 3: Position your levers as per figure 4 and gently lift the stator to separate the alternators SRE bracket from the DE bracket. When doing this make sure not to push on the stator and damage winding as seen in figure 5.

Figure 6

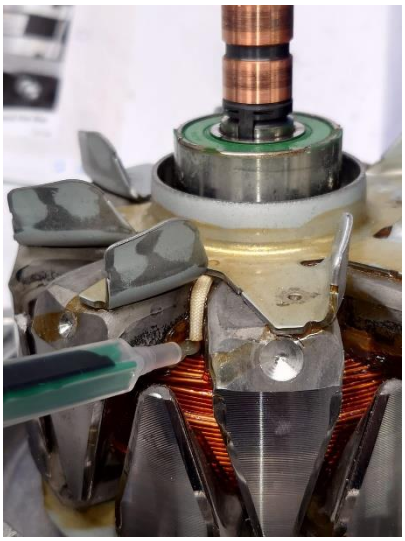

Figure 7

Figure 8

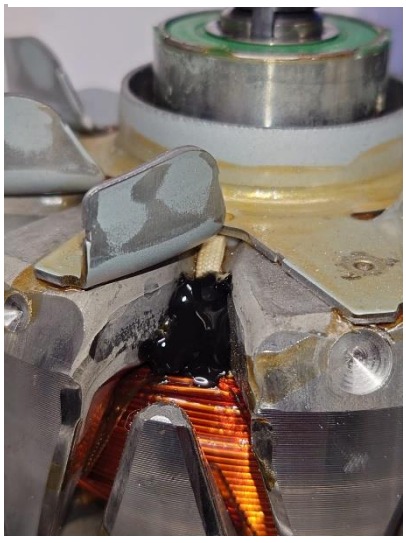

Figure 9

Figure 10

STEP 4: Looking at Figure 6 resin the wire seen in Figures 7,and then on other side, 180° apart resin the wire again. When doing this ensure to only apply a small amount as it affects the rotors balance.

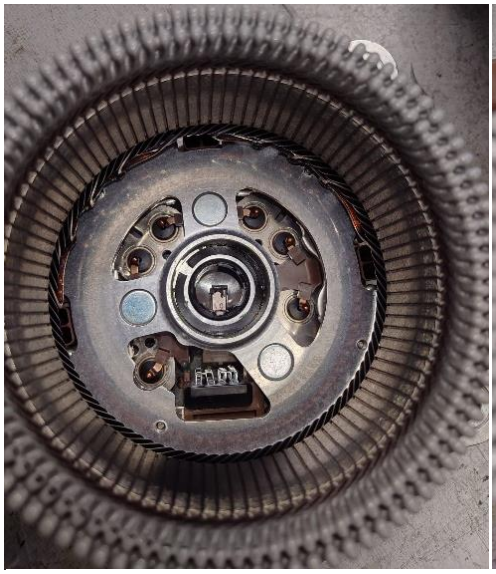

Figure 11

Figure 12

Figure 13

Figure 14

STEP 5: Resin the diodes on the rectifier as seen in figure 11 as per figure 12,13 & 14.

Figure 15

Figure 16

Figure 17

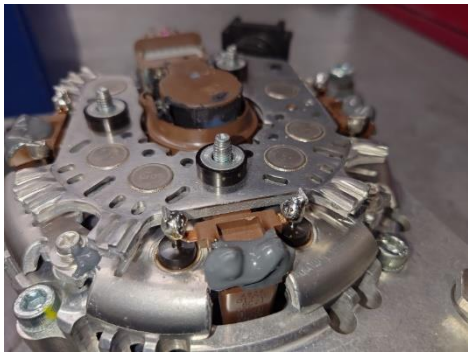

Figure 18

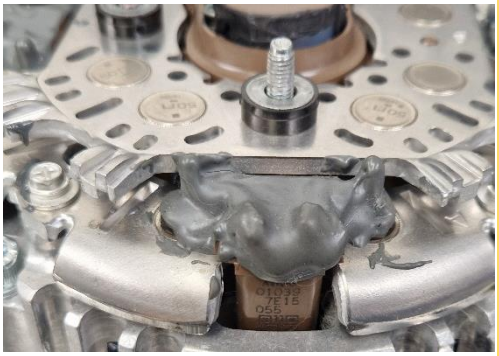

Figure 19

STEP 6: Get a pin and place it in your brush box as seen in Figure 17 to hold the brushes back. Next take a standard crimp terminal as seen in Figure 15 and cut it in half so you're left with something that looks like Figure 16. Looking at Figure 17 again, place the terminals on the rectifier diodes. Once placed on the rectifier make sure to solder it into place and cut off the excess material from the terminal. You should now be left with something which looks like figure 18. Then cover the tops of the diodes and solder joint in resin as per Figure 19.

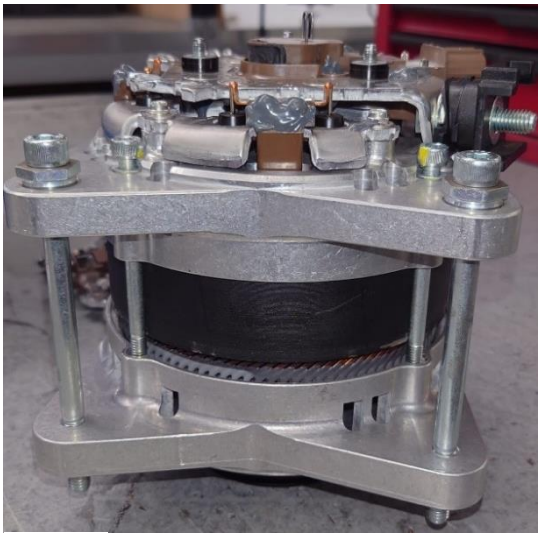

Figure 20

STEP 7: Reposition your alternator so that you can clamp it back together, this must be done equally using the 4x M6 bolts and using the M8 bolts for alignment. Make sure to remove the brush pin from the brush box once re-assembled and before you re-fit the lid. Tighten the 4 x M6 bolts equally to 11Nm. Double-check the alternator spins okay and if you have the facility to test the alternator, do so to make sure everything is working. Figure 20 is for example of re-assemble only. We appreciate the modifications have not been carried out in this image.