



eDrive +2.0 CONVERSION KIT INSTALLATION MANUAL

(Suits all Maestro models, MK1, MK2 & MK3)

Models: M123ED2 & M123EDN2

PACKAGE CONTENTS

- eDrive +2.0 MCB & manual
- eDrive APE assembly (includes 1 x short screw, 2 x long screw, 3 x spacer & 3 x fibre washer)
- APE cable
- Shaft adaptor assembly
- M4 tapite
- Grifco +2.0 label for controller
- eDrive +2.0 label for limit enclosure
- For accessory compatibility and set-up please refer to page 18-20 of the eDrive +2.0 manual (included in package)

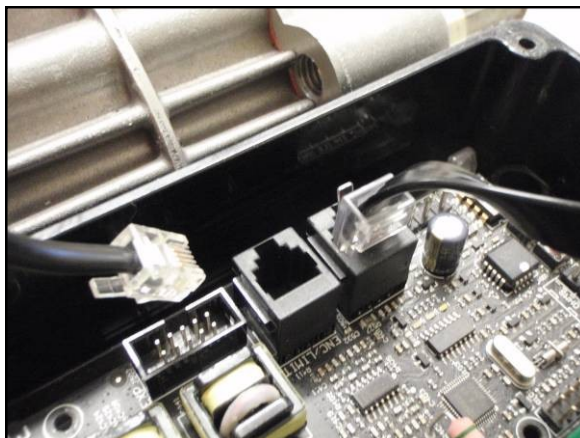
TOOLS REQUIRED

- Medium Phillips head screw driver
- Small flat blade screw driver
- Cordless drill, with 1/4" hex socket
- Pliers
- 2.0mm Allen key (included)

NOTE: IF INSTALLING M123ED2 OR M123EDN2 ON ADJUSTABLE CLUTCH MODEL AN ECC1 (ADDITIONAL KIT) IS REQUIRED.

INSTALLATION

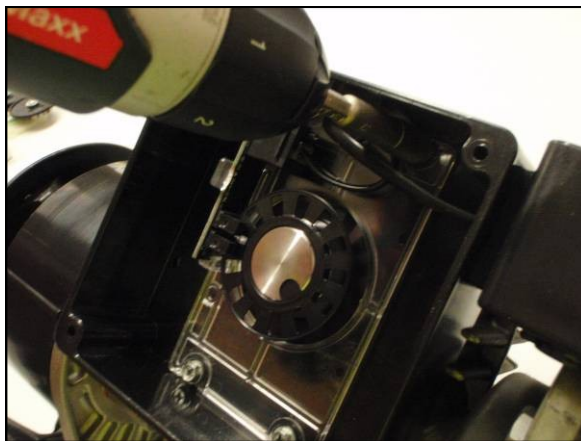
1. Power off.
2. Remove MCB cover & unplug OE cable.



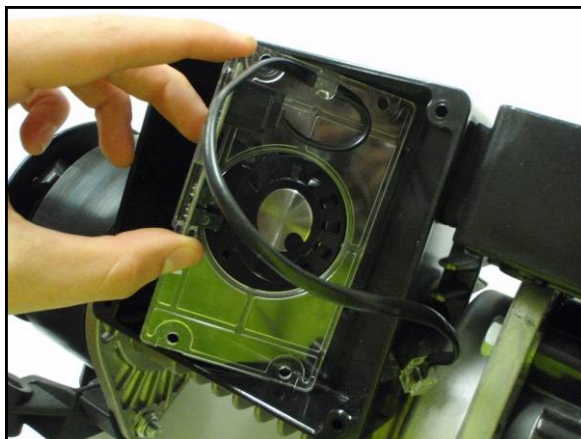
3. Remove OE enclosure cover.



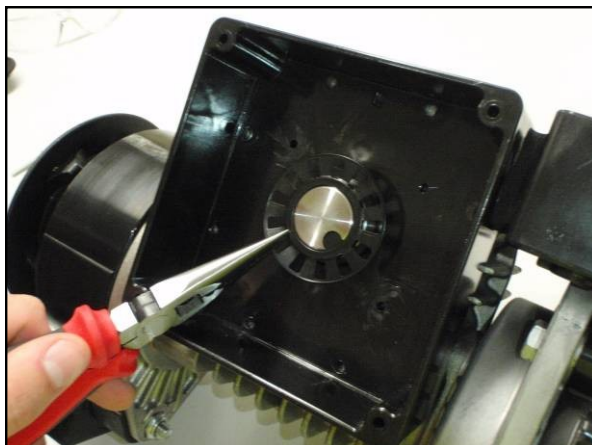
4. Remove 4 x mounting screws, use cordless drill & 1/4" drive bit if available. Two of these screws will be needed later on.



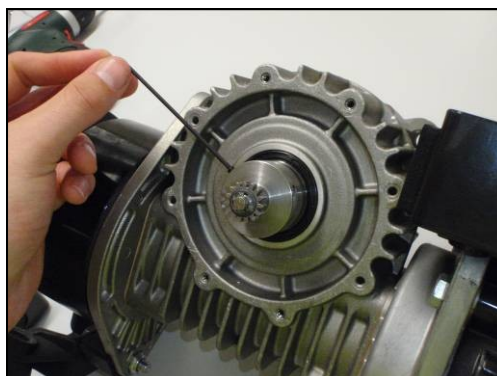
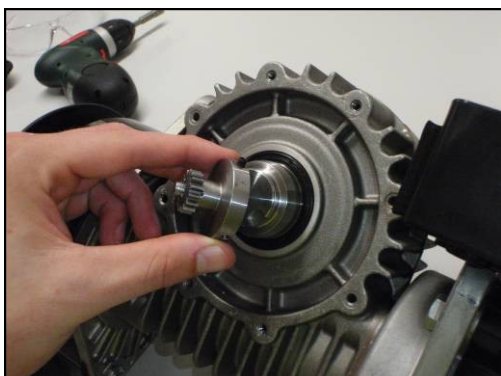
5. Remove OE assembly including cable (no longer needed).



6. Detach OE wheel (no longer needed), use pliers or small blade screwdriver. Remove the OE enclosure, observe correct orientation of the enclosure for re-assembly.

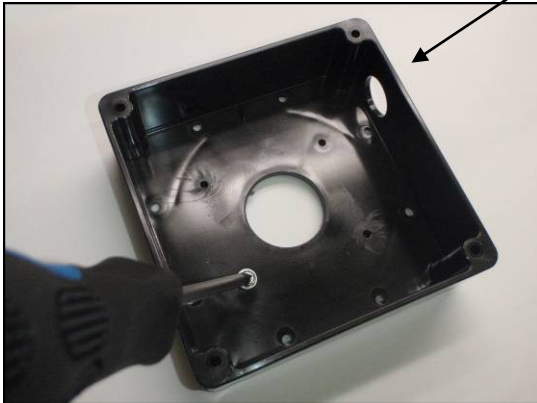


7. Insert the shaft adapter and ensure it is hard against the shoulder. Tighten the three grub screws.



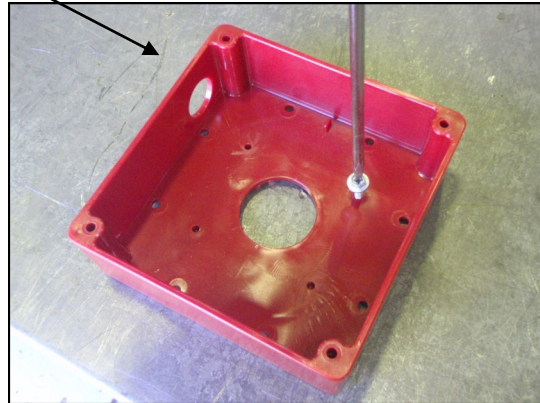
8. Use the provided M4 hex head taptite to drive in and out of the hole shown below, to form a thread. Use a Phillips head style screwdriver.

Left hand enclosure



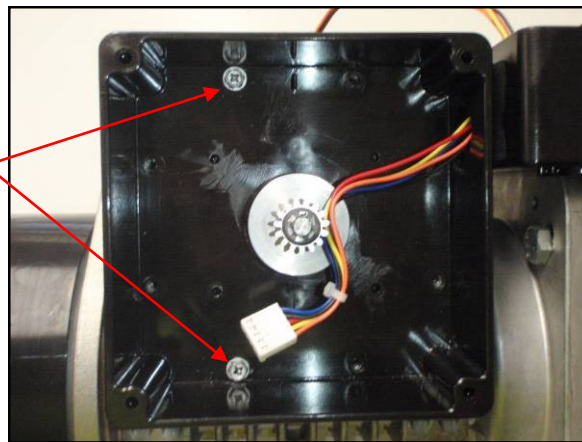
APE cable entry

Right hand enclosure



9. Reinstall the enclosure, observe orientation as before. Insert two of the original screws as shown to assist enclosure mounting. Install APE cable, (must pass through foam pad into MCB enclosure).

2 x original screw



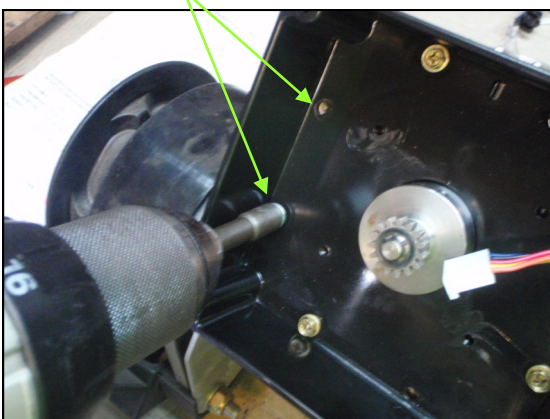
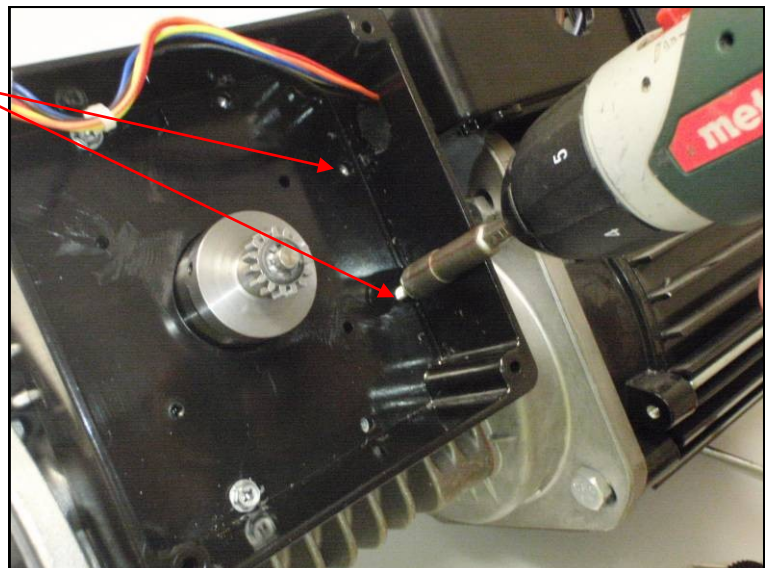
10. Use the provided M4 hex head taptites to drive in and out of the holes shown below. There should be a clearance of approx 1mm between the base of the enclosure and the hex head to ensure adequate thread depth has been achieved .

Standard Opener:

Holes requiring M4 thread to be formed by screwing taptite in and out.

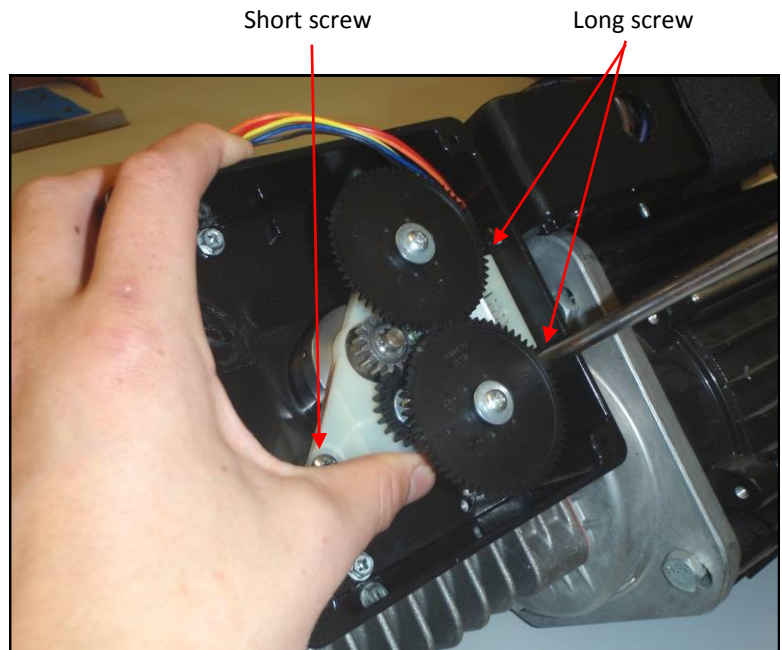
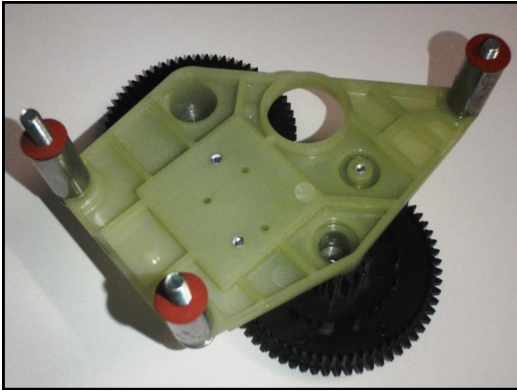
Clutch Model:

Holes requiring M4 thread to be formed by screwing taptite in and out.

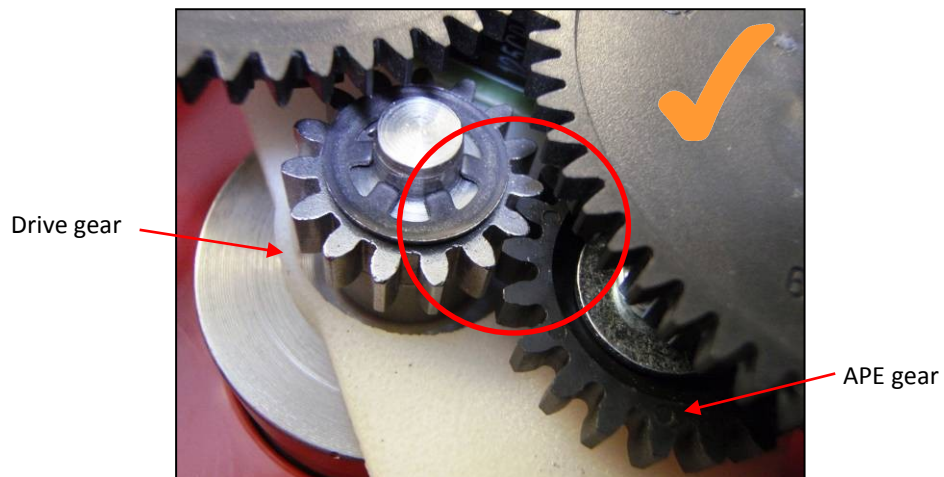


NOTE: Ensure all excess debris is removed from the enclosure after threading holes.

11. Install the APE unit, using the M4 screws, spacers and fibre washers provided. The two longer M4 screws go through into the gearbox and the single shorter screw only goes into the plastic housing.



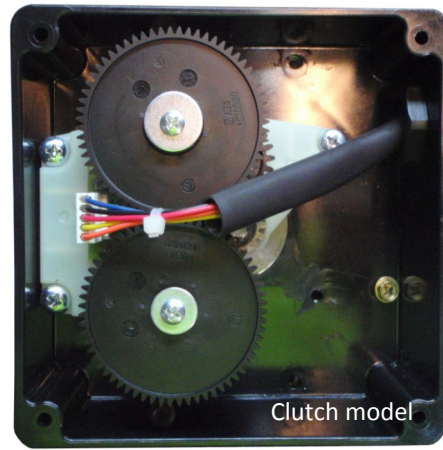
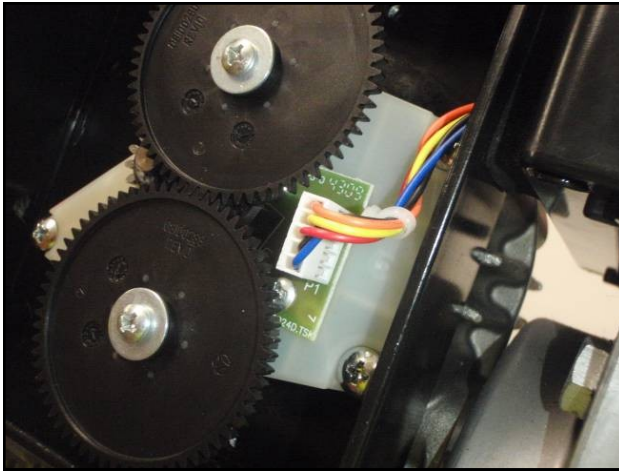
The bottom of the APE assembly must be held in position (as shown above) while fastening all three M4 screws. This will provide a neat mesh between the shaft drive gear and small APE gear (shown below).



It is important that the teeth are not too far apart as shown below.



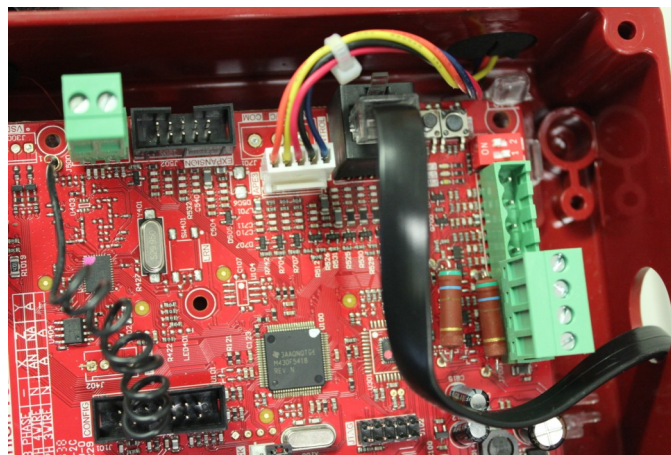
12. Attach the APE cable as shown below. Ensure cable does not foul on any of the APE gears.



13. Refit enclosure cover.



14. Replace MCB (Main Control Board) and connect APE cable to eDrive +2.0 MCB, then guide the excess cable between the MCB & top of the enclosure.

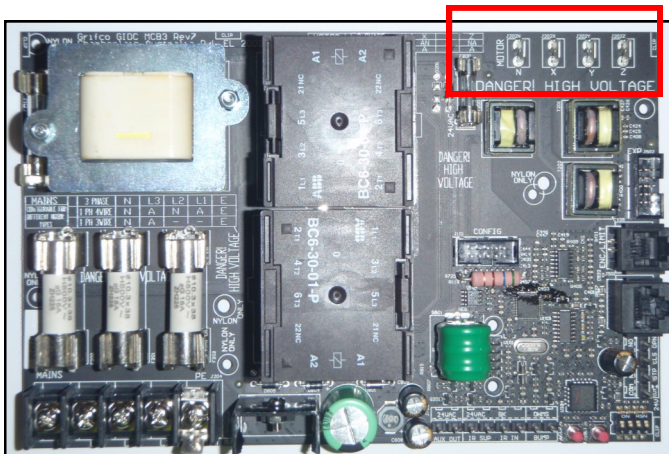


15. Place Grifco +2.0 label on underside of APE enclosure



NOTE:

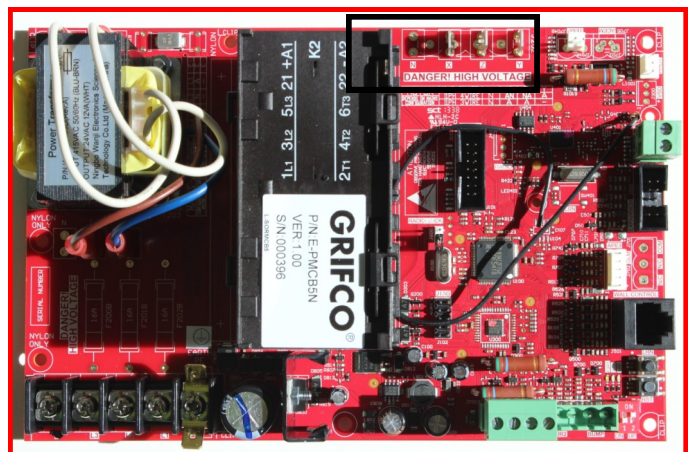
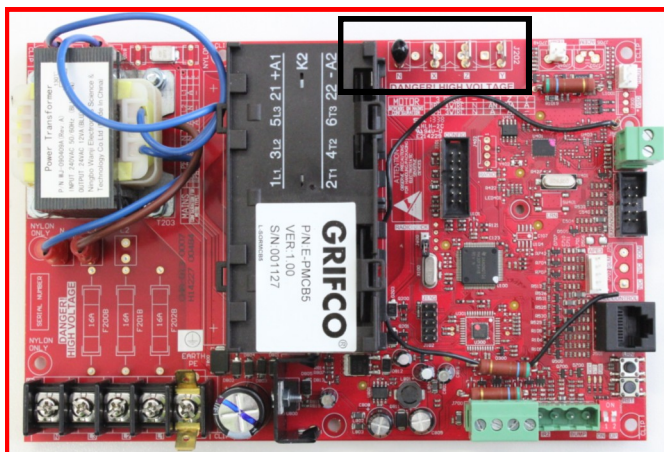
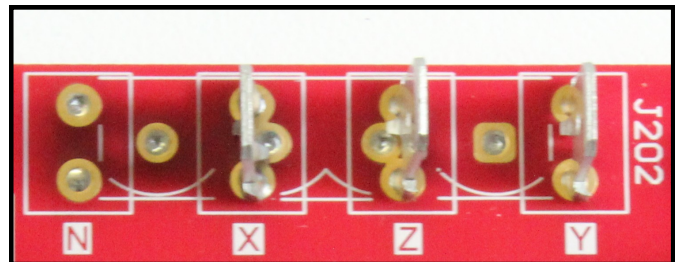
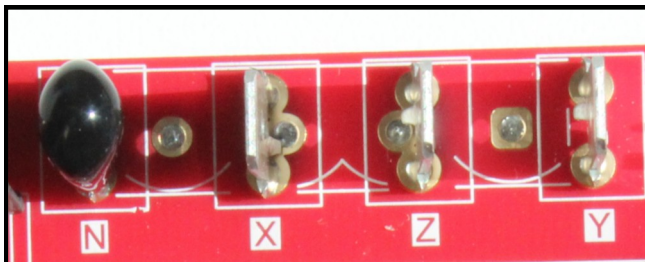
The eDrive +2.0 motor terminals are slightly different to the Maestro MK1-3, specifically the Y & Z terminals have been alternated, refer below. This must be recognised when converting a single phase Maestro opener.



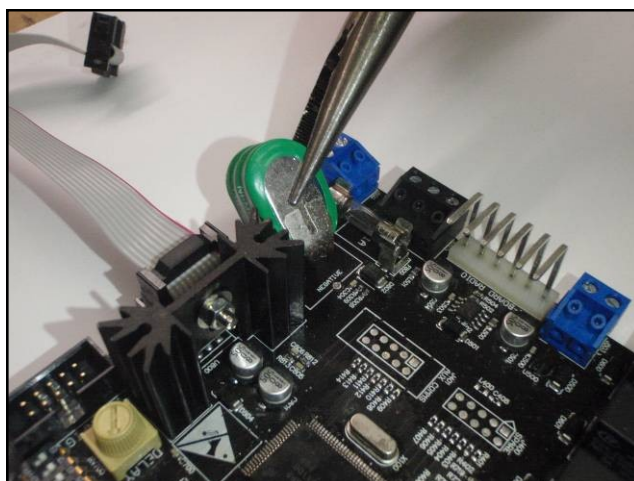
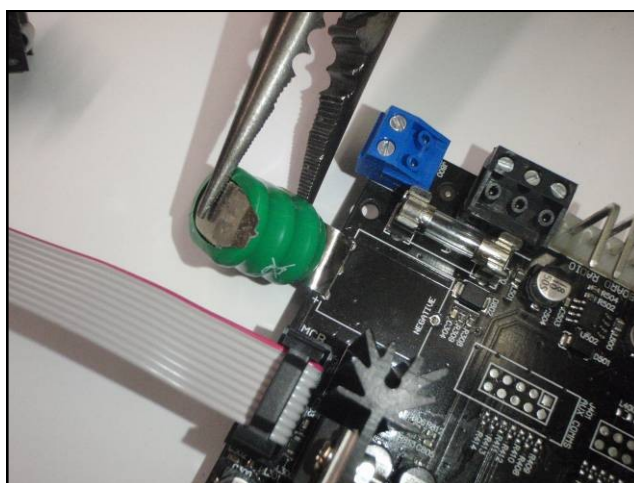
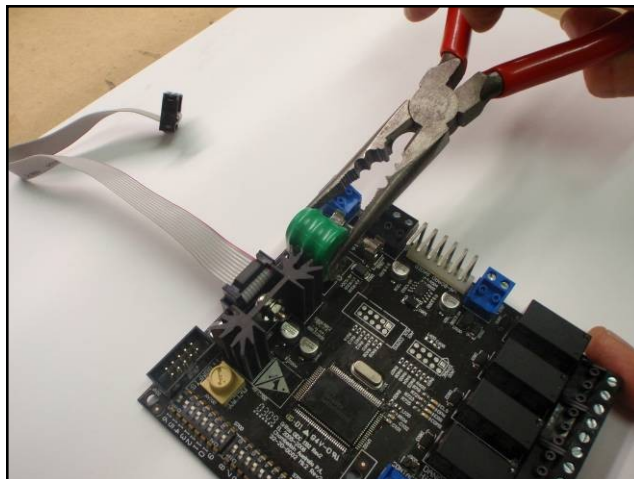
MK1-3

eDrive +2.0

eDrive +2.0 No Neutral



15. If an EB (Expansion Board) is fitted the battery on the EB must be removed. It is recommended that pliers be used, as shown below.



16. Attach the **Grifco +2.0** label to the wall controller, as shown below.



The limit LED should be ON (i.e. no limits set) before operating with new conversion kit. If limits are set, they must be bombed, then reset. To bomb limits:

- Hold **stop** and press **set** 3 times (*limit LED should begin to flash*)
- Press **set** (*limit LED will flicker*)
- Run door open for less than 2 seconds, then press **set** (*limit LED should become solid*)
- Cycle power and reset limits, refer to eDrive +2.0 manual (included) for limit setting procedure
- For accessory compatibility and set-up please refer to page 18-20 of the eDrive +2.0 manual (included in package)