

ELEC303 Repairs, Rework and High Voltage Component Replacement on Automotive Electric Vehicles

Equipment List

- Service Disconnect/Switch (SD/SW) – Service Dummy Plug
- PPE:
 - face shield(s)
 - class 0 1 kV gloves
 - overalls
 - composite toe cap boot(s)
 - rubber mats
- proving unit
- voltage test meter
- multimeter
- test lamp
- insulation resistance tester
- basic/insulated hand tools
- LEDs
- connecting cables
- glass jar - plastic jar cap
- copper wire
- galvanised nail
- aluminium can
- white vinegar
- copper tube (on plastic base)
- selection of 2.5 mm automotive wire
- selection of 3/0 or 4/0 AWG HV cable
- pin extraction tool
- wire strippers
- roll cutter
- ferrules/Connectors and crimps
- heat shrink
- heat gun
- hydraulic crimping tool
- Crimp connectors
- LEV extractor
- ESD soldering mat
- PCB stand
- Soldering iron
- Component removal tools
- ultrasonic bath
- alcohol wipes
- brushes
- de-soldering tool
- stripping solution/swabs
- epoxy resin/wooden lolly sticks/plastic cups
- rotary tool
- Locktronics skills boards/Kitronik PCB kits
- job card(s)
- electric vehicles – Leaf, Renault Zoe, et al.
- PC or laptop
- smart board/projector/screen or online (Wi-Fi)
- technical data source
- safety signs/regulation safety VPE/CPE barrier, etc.