ELECTRIC ELVES
For a Circular EV Battery Future

What to do if you receive a hybrid or electric vehicle for dismantling

Hybrid or Electric Vehicles (hybrids, electric, plug in hybrid or mild hybrid) contain industrial batteries including traction batteries for the propulsion of the vehicle. Depending on the vehicle, the battery may be of a Nickel Metal Hydride (NiMH) or Lithium Ion (Li-ion) composition. They contain significant voltage (can range from DC 12-400V) and due care needs to be taken when handling them to ensure the safety of you and your employees/ colleagues/ contractors.

If you receive a Hybrid or Electric Vehicle the following steps should be followed:

1. Be aware of the voltage risk

Make sure you are complying with all safety precautions to avoid exposure to high voltage. Do not try to dismantle the vehicle or remove any parts until you understand the correct shut down and dismantling procedure for that vehicle.

2. Check for signs of damage

If there is any evidence the vehicle may be damaged and that damage may have extended to the industrial battery, store the vehicle on concrete and isolate it from other ELV stock. Follow safety procedures and contact ELVES. Do not try to dismantle it or remove the battery.

3. Record details of the vehicle

Record as much detail about the vehicle and the battery as possible from a visual inspection. If there is any evidence the vehicle has been damaged, take photos and details of the damage. Complete 'Hybrid/Electric Vehicle Details Form'.

4. Call ELVES for next steps and to organise free battery collection

Call ELVES for instruction on next steps for dismantling and battery collection.
Ensure you have the vehicle details to hand.

ELVES – info@elves.ie, 041 983 5550

If required, ELVES will contact the vehicle manufacturer on your behalf. The vehicle manufacturer will make a decision as to whether technical assistance is required before the battery is dismantled/collected for recycling.

Further information…

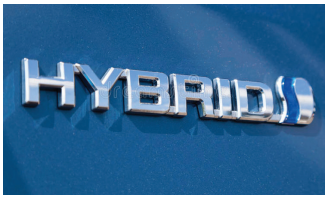
The document ‘Safe Handling of High Voltage Electrical components in Electrical End of Life Vehicles’ can provide further information on identifying these vehicles, their initial handling and equipment required. Excerpts have been provided and a full copy can be downloaded from the IDIS http: //www.idis2.com/

High Voltage Awareness training is recommended to ensure your employees/colleagues/contractors are aware of the risks associated with handling these vehicles.

Identifying a Hybrid/Electric Vehicle

You should be able to identify an hybrid/electric vehicle via the vehicle badging. The badging may indicate that the vehicle is a hybrid, electric or zero emission vehicle. The marque badge may also be in blue or include a blue background.

For example:



However, if this is missing, other signs to look out for are:

- Information in the log book indicating it is a hybrid, mild hybrid or electric vehicle.
- Presence of orange, purple or blue cabling.
- Warning labels in the vehicle.
- Absence of an exhaust pipe (for electric vehicles only)
- An electrical charging connector (possibly with a second “fuel cap”) (electric vehicles only)

Please note:

This information is provided to assist you in the handling and dismantling of hybrid/ electric vehicles. ELVES or its members accept no responsibility for the handling of hybrid, plug in hybrid, electric or mild hybrid vehicles or their batteries at your ATF. You remain responsible for the training and health and safety of your employees/ colleagues/ contractors and ensuring the guidance provided is followed correctly.

This service is available to all ATFs. You do not need to be in the ELVES ATF Network to take advantage of this service. The vehicle must be treated as an ELV and in all cases a CoD issued.

Should you wish to retain an industrial battery for reuse, the responsibility is yours to guarantee it is fit and safe for repurpose. ELVES and/or the vehicle manufacturer will not be able to provide an ATF with an assessment on an undamaged battery and whether it is suitable for reuse/recharge.