

Electric and Hybrid Vehicle Equipment and Supply Readiness Checklist

Certified Auto Recyclers maintain a standard of excellence in the auto recycling industry that facilitate compliance and safety at their facilities. As technology changes so do the rules and commonsense best management practices. Today the industry is facing an evolution from the internal combustion engine to a wide variety of new technology in propulsion. The Electric Vehicle or EV or hybrid electric vehicle (HEV) is already mainstream technology and the fleet of EVs on the road continues to grow. Naturally, those vehicles will make it to the end-of-life stage by wreck or time and wind up at the auto recycling facility.

Energy storage systems, usually batteries, are essential for hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), and all-electric vehicles (EVs). Most plug-in hybrids and all-electric vehicles use **lithium-ion batteries** or nickel metal hydride batteries. These vehicles and specifically these batteries will require special handling, compliant shipping and a large degree of caution. Preparedness is essential.

Certified Auto Recyclers should be prepared for end-of-life EVs by stocking basic supplies and equipment to protect dismantlers.

- Stock the PPE, Tools, and Supplies** - Every auto recycler should stock the necessary Personal Protective Equipment (PPE) for processing Hybrid and Electric Vehicles including a **Lineman hook, Insulated glove liners, and Leather cover gloves.**
- Every auto recycler should stock the necessary Lock Out Tag Out (LOTO) supplies for processing Hybrid and Electric Vehicles including **Insulated padlock, Non-conductive Hasp, Rotating Electrical Plug Lockout, Steering Wheel Lockout and a Port Lockout Device.** Adopting a lockout/tagout procedure will ensure energy sources cannot be reinstated until dismantlers have completed their tasks.
- Every auto recycler should stock the necessary safety signage for processing Hybrid and Electric Vehicles including **Signs, cones, and vehicle tags for High Voltage DANGER.** Using safety signs to communicate potential dangers and instructions will ensure awareness in the shop that high voltage electrocution is a serious matter.
- Every auto recycler should ensure that shipping personnel are trained and certified within the last three years for packaging and shipping of HazMat and/or Dangerous good including EV lithium ion batteries as well as airbags. All types of lithium batteries were recently designated as “Dangerous Goods” with shipping restrictions.