

Safety Plan

The 1999 Ford Ranger EV is powered by a battery pack containing 39 lead acid batteries. The primary dangers associated with this battery pack are electrical shock and chemical exposure.

This plan addresses the sources of potential danger and the safety precautions that will be taken when working with the battery pack.

- Exposed contacts provide a source of electrical danger should a metal item be placed between the exposed contacts. Therefore, exposed contacts will be temporarily covered with duct tape when testing is not in progress.
- If allowed to freeze, the case of a fully discharged lead acid battery can break. The batteries will be kept in an area that will not be subjected to freezing temperatures.
- The sulfuric acid in the batteries is highly toxic. Chemical resistant gloves and goggles will be worn in the event a battery is opened. In the event of a leak, the area will be isolated until the spilled liquid is properly disposed.
- No sparks, flames or explosives are allowed near the batteries. The batteries are stored in a non-smoking area where no flame producing work is authorized to occur.
- To prevent electric shock in the event of a battery charge, all cables will be checked free of damage prior to beginning the battery charge. In addition, the area will be monitored during the charge to ensure the evolution is completed safely.

In addition to these items, the battery pack is an extremely heavy item. If the decision is made to install the battery pack into the truck, a revision to the safety plan will be incorporated to account for the hazards associated with moving large equipment.