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## Foreword

In June 2012, Lexus released the 2013 ES300h gasoline-electric hybrid vehicle in North America. To educate and assist emergency responders in the safe handling of the ES300h technology, Lexus published this ES300h Emergency Response Guide.

High voltage electricity powers the electric motor, generator, air conditioning (A/C) compressor and inverter converter. All other automotive electrical devices such as the head lights, radio, and gauges are powered from a separate 12 Volt auxiliary battery. Numerous safeguards have been designed into the ES300h to help ensure the high voltage, approximately 244.8 Volt, Nickel Metal Hydride (NiMH) Hybrid Vehicle (HV) battery pack is kept safe and secure in an accident.

The ES300h utilizes the following electrical systems:

- Maximum 50V AC
- Nominal 244.8 Volt DC
- Nominal 12 Volt DC

The ES300h Features:

- A boost converter in the inverter converter that boosts the available voltage to the electric motor to 600 Volts.
- A high voltage Hybrid Vehicle (HV) battery pack rated at 244.8 Volts.
- A high voltage motor driven Air Conditioning (A/C) compressor rated at 244.8 Volts.
- A body electrical system rated at 12 Volts, negative chassis ground.
- Supplemental Restraint System (SRS) - dual stage front airbags, knee airbags, front and rear seat side airbags, side curtain airbags, and front and rear outside rear view mirror-mounted.

High voltage electrical safety remains an important factor in the emergency handling of the ES300h Lexus Hybrid Drive. It is important to recognize and understand the disabling procedures and warnings throughout the guide.

Additional topics in the guide include:

- ES300h identification.
- Major Lexus Hybrid Drive component locations and descriptions.
- Evacuation, fire, recovery, and Additional emergency response information.
- Roadside assistance information.



2013 Lexus ES300h

This guide is intended to assist emergency responders in the safe handling of an ES300h vehicle during an incident.

NOTE:  
Emergency Response Guides for Lexus hybrid and alternative fuel vehicles may be viewed at <http://techinfo.lexus.com>.

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