

# Georgia Electric Vehicle Rally Electrical Inspection Sheet

Vehicle No. \_\_\_\_\_ School Name \_\_\_\_\_

Date: \_\_\_\_\_ Vehicle Inspectors \_\_\_\_\_

Maximum Controller Current Rating \_\_\_\_\_

	<u>Accept</u>	<u>Reject</u>
<b>Battery System</b>		
Battery Type (Rechargeable lead-acid)	_____	_____
Battery Voltage (96 volts nominal)	_____	_____
Battery Isolation (<5 milli amps) (Check from both pos. & neg. battery terminals to chassis ground)	_____	_____
Battery Location (Crush space, not in front driver area)	_____	_____
Battery Enclosure (Durable, sealed)	_____	_____
Battery Enclosure Mounting (Securely mounted to chassis)	_____	_____
Battery Connections (Clean and tight)	_____	_____
Enclosure Ventilation (Brushless fan, 10 CFM where required; under hood and bed enclosures have sufficient dissipation)	_____	_____
Disconnect (Type & Oper.)	_____	_____
<b>Battery Charger</b>		
AC Cord (12 AWG, SO cord minimum, good condition)	_____	_____
Vehicle Connection (Shielded, polarized)	_____	_____
Output fuse (250V, < 125% of charger output)	_____	_____
On-board Charger Ground (vehicle frame grounded to AC power supply ground when connected)	_____	_____

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	<u>Accept</u>	<u>Reject</u>
<b>Motor / Controller</b>		
Motor Type (DC)	_____	_____
Conductor Sizing (#2/0 AWG-battery/controller/motor)	_____	_____
Conductor Routing (No loose cables, grommets, etc.)	_____	_____
Battery Pack Fuse Ratings (<200% controller rated current, 600 VDC)	_____	_____
No Exposed High Voltage (No connectors, terminals, etc. greater than 14v exposed)	_____	_____
Accelerator (Free-moving, two return springs)	_____	_____
Contactors (Shielded and outside drivers area)	_____	_____

Approved \_\_\_\_\_ Disapproved \_\_\_\_\_ Re-inspection Required \_\_\_\_\_

Comments \_\_\_\_\_