

# VEHICLE INSPECTION FORM

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Name (car owner or team leader) \_\_\_\_\_

School or Team Name (if applicable) \_\_\_\_\_

Address (This is where awards and race information will be sent) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Phone Number \_\_\_\_\_ E-Mail Address \_\_\_\_\_

Car Number \_\_\_\_\_

State \_\_\_\_\_

**Class:**

- Standard
- Solar
- Advanced Battery

**Division:**

- High School
- Open

All classes must meet Electrathon America Rules

- Entry Fees Paid
- Liability Form Signed
- Electrathon America Competitor Membership

## VEHICLE INSPECTION CHECK LIST

- Electrathon America vehicle number clearly visible (6+“ high and contrasting color)
- Visual inspection of structural integrity appears good
- Overall car no more that 48” (4') wide at widest point and 12 feet long or less
- Roll bar seems able to support driver's weight--bracing at highest point
- Roll bar protects driver through full range of motion side to side and forward
- If roll bar is not one piece, it is triangulated at all joints
- Driver stays under plane (roll bar to front support) when seat belted in and leans forward
- Tires are pneumatic and tread is in acceptable condition
- Ground clearance will be tested by ability to roll over a 1 1/2” board without touching.
- Bottom pan so that driver cannot make contact with the track and protects driver from ground
- Bodywork or structural protection from head on and side impact & encloses all of the driver's body parts including legs/feet so they can not escape the car's protection.
- Sides high enough that if other cars go over it in a wreck the driver is not hurt
- No exposed sharp edges or components. Nose cone is not overly pointed or sharp, and has at least a 3” radius (6” diameter) in at least one direction (checked with go/no go device).
- Chain and motor area has guard to protect the driver and others
- Good visibility and field of vision- checked with clipboard held in several locations
- Rear view mirror(s) at least 8 square inches-can see clearly on both sides of the vehicle.
- Axle diameter at least 12 mm / 1/2” unless supported on both ends
- Cotter pins or safety wire used to secure cantilevered wheel axle nuts-not just lock or jam nuts
- 5 point seat belt system is as per handbook, securely attached at least 3” below 'body parts', can lift the weight of the vehicle. Holds the driver secure and 'immobile.'
- Brake inspection- Car will not roll when pushed from behind (skids or stationary) and has two wheels on the same axle with brakes.
- Steering inspection- Can make 25 foot turning radius and appears safe and stable at high speeds
- Throttle automatically shuts off when released
- Circuit breaker or fuse between batteries and motor of correct size for wiring gauge and length
- Inside kill Switch driver accessible and the outside kill switch has a 4” red triangle & easy to use
- Wiring appears safe (terminals tight, insulation good, frame not grounded, wires not rubbing, etc.)
- Batteries securely mounted to structural part of car so they cannot come loose in an accident
- If lead acid batteries-- weigh less than 73 pounds and are non-leakable standard acid batteries
- If Advanced Batteries, type is approved in handbook and appropriate weight for type

Battery manufacture \_\_\_\_\_ Model (or serial) number \_\_\_\_\_

Battery Type \_\_\_\_\_ Battery Quantity \_\_\_\_\_ System Voltage \_\_\_\_\_

INSPECTION  
COMPLETED  
(Initialed by Inspector)

INITIAL INSPECTOR'S COMMENTS OR RECOMMENDATIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# DRIVER INSPECTION FORM

## 1st EVENT

INSPECTED AT \_\_\_\_\_ DATE \_\_\_\_\_ CAR OK \_\_\_\_\_

DRIVER'S NAME \_\_\_\_\_ DL # \_\_\_\_\_

\_\_\_\_\_ STATE \_\_\_\_\_

\_\_\_\_\_ Total weight \_\_\_\_\_ Driver's weight \_\_\_\_\_ Ballast weight \_\_\_\_\_ Item used

\_\_\_\_\_ Signed liability release form AND minor form signed by guardian if under 18

\_\_\_\_\_ Can exit car in less than 20 seconds \_\_\_\_\_ Good visibility \_\_\_\_\_ Stays under roll bar

\_\_\_\_\_ Full DOT helmet \_\_\_\_\_ Eye protection \_\_\_\_\_ Long pants & sleeves \_\_\_\_\_ Gloves (open car only)

\_\_\_\_\_ Hair does not reach drive train, \_\_\_\_\_ necklaces, bracelets, large earrings, etc. Removed:

INSPECTOR'S NAME \_\_\_\_\_ COMMENTS/RECOMMENDATIONS:

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## 2nd EVENT

INSPECTED AT \_\_\_\_\_ DATE \_\_\_\_\_ CAR OK \_\_\_\_\_

DRIVER'S NAME \_\_\_\_\_ DL # \_\_\_\_\_

\_\_\_\_\_ STATE \_\_\_\_\_

\_\_\_\_\_ Total weight \_\_\_\_\_ Driver's weight \_\_\_\_\_ Ballast weight \_\_\_\_\_ Item used

\_\_\_\_\_ Signed liability release form AND minor form signed by guardian if under 18

\_\_\_\_\_ Can exit car in less than 20 seconds \_\_\_\_\_ Good visibility \_\_\_\_\_ Stays under roll bar

\_\_\_\_\_ Full DOT helmet \_\_\_\_\_ Eye protection \_\_\_\_\_ Long pants & sleeves \_\_\_\_\_ Gloves (open car only)

\_\_\_\_\_ Hair does not reach drive train, \_\_\_\_\_ necklaces, bracelets, large earrings, etc. Removed:

INSPECTOR'S NAME \_\_\_\_\_ COMMENTS/RECOMMENDATIONS:

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## 3rd EVENT

INSPECTED AT \_\_\_\_\_ DATE \_\_\_\_\_ CAR OK \_\_\_\_\_

DRIVER'S NAME \_\_\_\_\_ DL # \_\_\_\_\_

\_\_\_\_\_ STATE \_\_\_\_\_

\_\_\_\_\_ Total weight \_\_\_\_\_ Driver's weight \_\_\_\_\_ Ballast weight \_\_\_\_\_ Item used

\_\_\_\_\_ Signed liability release form AND minor form signed by guardian if under 18

\_\_\_\_\_ Can exit car in less than 20 seconds \_\_\_\_\_ Good visibility \_\_\_\_\_ Stays under roll bar

\_\_\_\_\_ Full DOT helmet \_\_\_\_\_ Eye protection \_\_\_\_\_ Long pants & sleeves \_\_\_\_\_ Gloves (open car only)

\_\_\_\_\_ Hair does not reach drive train, \_\_\_\_\_ necklaces, bracelets, large earrings, etc. Removed:

INSPECTOR'S NAME \_\_\_\_\_ COMMENTS/RECOMMENDATIONS:

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