



2013 Robby Gordon SST Stadium ATV & Stadium UTV Rulebook

STADIUM ATV

SECTION 1

1.1 Special Technical Requirements

- a. When the rules permit equipment to be installed, replaced, altered, or fabricated, it is the sole responsibility of the rider to select components and materials for the fabrication of this equipment that will perform in competition properly.
- b. Any component of a Stadium ATV deemed by the Chief Technical Inspector as necessary for operation must be in place, securely mounted, in proper working order and structurally sound.
- c. Regardless of previous approval, the permission to use specific components or equipment, including tires and fuel, may be withdrawn for any reason USAC deems in the best interest of Stadium ATV and the Robby Gordon SST Series.

1.2 Engine Displacements

Stadium ATV: 350 - 450cc 4-Stroke

1.3 Approved Stadium ATV's

- a. **ONLY OEM's REGISTERED WITH ROBBY GORDON'S STADIUM SUPER TRUCKS MAY COMPETE IN STADIUM ATV.**
- b. Only ATV's approved by Robby Gordon SST Series and USAC may be used in competition.
- c. Compliance with approval requirements will not guarantee Robby Gordon SST Series or USAC Approval. Approval may be withheld or withdrawn for a just cause that Robby Gordon SST and/or USAC deems in the best interest of the sport.
- d. The approval procedure and information is available from the USAC Tech Department.

1.4 Engines

- a. Engines are restricted to a single cylinder
- b. Engine case numbers must match frame year and model.
- c. Engine Displacement Measurement
 - 1. Displacement = (Bore X Bore X 0.7854 X Stroke X 1 Cylinder)
 - 2. If bore and stroke are in millimeters, divide end product by 1,000 to convert to cubic centimeters (CC).
 - 3. If bore and stroke are in inches, multiply end product by 16.387 to convert to cubic centimeters
- d. Supercharging or turbo charging is not permitted.
- e. Displacement limits are absolute. There are no overbore allowances or tolerances
- f. Bore & Stroke must remain as the production model.
 - g. The exhaust valve angle must remain the same as on the approved production model.
 - h. The type of cooling system (water, oil, or air) must remain the same as the production model.
- i. Fuel injection is permitted only if it is standard equipment on the production model.

1.5 Transmissions

- a. Stadium ATV's are restricted to rear-wheel drive only.
- b. Primary drive method must remain the same as the production model.
- c. Primary drive must be completely enclosed by a cover or guard.
- d. Number of transmission speeds must be the same as the production model.

1.6 Exhaust System

- a. Exhaust pipes and mufflers must fulfill all requirements concerning sound control.
- b. Exhaust pipes and mufflers must be securely attached together and bolted to the frame.
- c. Mufflers must have internal mechanical or packed baffling.
- d. The discharge end of the exhaust pipe may not extend beyond the rear edge of the rear grab bar

1.7 Sound Requirements

- a. The maximum sound limit is set at 95 dB/a at all times throughout the night.
- b. Testing procedures can be performed by Robby Gordon SST Series, USAC, and/or Stadium Authorities. All of which are valid and action can be taken by any of the above.

1.8 Frame

- a. The main frame must be the same as the original production model of the same manufacturer of the same year. VIN Numbers must be displayed.
- b. Cracked or broken frames are prohibited.
- c. Strengthening gussets or tubes may be added. but none may be removed.
- d. Suitable OEM floorboards or side bars , known as Nerf Bars, are required either above or below the bottom frame rail. They must be of a closed loop design and not extend beyond a point of widest dimension of the vehicle when measured with a straight edge touching the front and rear tires. The bars should be covered with a material so as to prevent riders' feet from going below the bars. Webbing of plastic mesh are acceptable materials. No sharp protruding or open tubing ends are allowed. The bars should be securely mounted (welded or bolted) to the frame.
- e. Accessory brackets (for radiator, coil, shock reservoir, etc.) may be changed, relocated, or removed.
- f. Engine Mount location, steering head, control arm (A-arm) mounting points, swing arm pivot point, and rear suspension mounting point must be the same as the original production model.

- g. Sub-Frames may be replaced with aftermarket units of steel, aluminum, or titanium provided they are similar in design to the production part and utilize original mounting points.
- h. Front bumpers and rear grab rails must be of a closed loop design and utilize stock mounting locations. No protruding or open tubing ends are allowed. Mud screens are permitted as long as no sharp edges are exposed. Sharp corners or edges of any kind are prohibited.
- i. Aftermarket skid plates are permitted.
- j. Stadium ATV fenders must extend to cover a portion of the rear tires.

1.9 Width

- a. At normal ride height the Stadium ATV must fit between a 50 inch wide spreader bar.

1.10 Swing Arm, Control Arms, and Steering Stem

- a. Swing arm, control arms (A-arm) and steering stem (column) may be replaced with items of similar design to the production model.
- b. Chain guides may be removed or relocated.

1.11 Handlebars and Controls

- a. Cracked or broken handlebars are prohibited.
- b. Control levers must have minimum of 1/2 inch diameter ball ends.
- c. All Stadium ATV's must be equipped with a functioning tether-type mechanical kill device attached to the vehicle and to the rider so that the engine ignition is cut off at any time the rider becomes separated from the ATV.
- d. All Stadium ATV's must be equipped with a self-closing throttle mechanism.

1.12 Suspension

- a. The manufacturer's original suspension concept of either single or double shocks or MacPherson-type struts must be maintained.

b. Aftermarket reservoir shocks are permitted.

1.13 Brakes

a. Stadium ATV's must be equipped with adequate and operating front and rear wheel brakes.

b. Brakes must be the same type as the production units. Disc Brakes may only be replaced with disc brakes and drum brakes with drum brakes.

c. Carbon fiber or carbon composite brake discs and/or carriers are prohibited.

d. Aluminum or titanium rear brake discs are prohibited.

1.14 Tires

a. ONLY ROBBY GORDON SST APPROVED TIRE MANUFACTURERS WILL BE ALLOWED.

b. Studded tires, other than rubber, are prohibited.

c. Paddle (continuous radial rib) tires are prohibited.

NOT APPROVED TREAD



APPROVED TREAD





1.15 Fuel Tanks

- a. Replacement tanks may be utilized in place of original, provided their weight and capacity are no less than the approved production tanks they replace.

1.16 Fuel Specifications

All Stadium ATV's must use petroleum-based fuel with the following clarifications:

- a. The specific gravity must fall within the range: .715 - .775 at 60 degrees fahrenheit.
- b. The maximum oxygen content is 4.0% m/m.
- c. The only allowable oxygenates are ether and alcohols, as listed and characterized for oxygen mass fraction in American Society for Testing and Materials (ASTM) D4814.
- d. Epoxides (i.e. propylene oxide) will not be considered ethers. Nitrogen-bearing compounds are not allowed.
- e. Lubrication additives are permitted provided the resulting mixture meets all other requirements.

1.17 Telemetry and Traction Control

- a. Electronic devices designed specifically for traction control are prohibited. This includes sensors that can determine front wheel speed and any electronic control to the brake systems.
- b. Electronic transmittal of information is prohibited with the following exceptions:
 - 1. Robby Gordon SST and/or USAC transponders utilized for scoring purposes.

2. Data or video transmitted for the sole use of Robby Gordon SST and/or USAC approved television production.
3. Electronic lap-timing devices are permitted. Transmitter beacons must be in an approved area.
4. Onboard video recorders are permitted for teams promotional use **WITH SST PERMISSION only**. If any footage obtained by teams is used in a manner determined detrimental to the series or the sport, it will result in penalties up to fines and suspensions.

1.18 Numbers and Number Plates

a. Plate Color Requirements: Stadium ATV - Black Plate, White number

b. Number Plates:

1. Front and rear number plates are required. Side fender numbers are highly recommended.
2. Number plates must be flat and mounted vertically in such a manner as to prevent deflection of the plate during the event. Any attempt at streamlining, such as curved plates or plates that are not rigidly mounted, is prohibited, unless such plates are standard on the production model.
3. Rear number plates must be mounted to the rear grab bar, and must have a minimum dimension of 9 inches wide by 6 inches tall. No cutting or modifying of number plates is allowed.
4. Number plates or number display areas must be of adequate size to provide ample space (approx. 1 inch) around and between numbers. Number plate areas may be incorporated. If used, adequate area is required for a clearly legible number display.
5. Plastic or fiberglass front number plates must have a minimum thickness of 1/16 inch. Wood or Metal number plates are prohibited.

c. Numbers:

1. Numbers must be a minimum height of 5.5 inches and a minimum width of .75 inches, with a maximum width of 2 inches.
2. Rider registered numbers and the approved Robby Gordon SST Series logos are required on all number plates.

1.19 Rider Apparel

a. Riders must wear helmets at all times when riding, including but not limited to, practice sessions, qualifying sessions, races, or anytime while competing on course.

Helmets must be full face type, conform to one of the following recognized standards, and have a label affixed certifying it's approval:

1. USA: Snell M2010, or DOT FMVSS 218
 2. UK: BSI 6658 Type A
- b. All helmets used by riders in competition must be equipped with a commercially manufactured emergency helmet removal device such as the Hats Off or Eject device. It is the riders responsibility to ensure the device is installed properly and operable at all times.
- c. Goggles, face shields or other protective eyewear must be shatter-resistant. Goggles must be worn at the start of each event
- d. Boots must be at least 8 inches high
- e. Devices designed solely for the purpose of reducing wind resistance may not be attached to the rider's apparel.
- f. Rider Jersey:
1. Jerseys must be long sleeve and made of durable material that will protect the rider. Short sleeves or 3/4 sleeves are not permitted.
 2. The rider's assigned number must be displayed horizontally across the back of the jersey. The number must be a minimum height of 8 inches and a width of 1 inch.
 3. Numbers must be printed in a contrasting color from the jersey color surrounding the placement of the number. The number may be outlined. However, the color of the outline must be in contrast to the jersey color as well as the number color.
 4. The official Robby Gordon SST logo must be displayed on the upper left front of the torso or left shoulder area of their jersey
 5. If a chest/back protector is worn over the rider's jersey, the rider's name and assigned number must be visible either on the jersey or on the chest/back protector.
- g. If the rider uses a chest/back protector, the official Robby Gordon SST logo must be displayed in the center front on the chest/back protector. This is in addition to the logo on the jersey. The minimum size of the logo is 3 inches wide by 1 3/4 inches high.
- h.
- i. Pants must be full length and made of material that will help protect the rider.

STADIUM SIDE BY SIDE (UTV)

SECTION 2

2.0 Allowed Manufacturers

a. ONLY OEM's REGISTERED WITH ROBBY GORDON'S STADIUM SUPER TRUCKS MAY COMPETE IN STADIUM SIDE BY SIDE.

2.1 Special Technical Requirements

- a. When the rules permit equipment to be installed, replaced, altered, or fabricated, it is the sole responsibility of the rider to select components and materials for the fabrication of this equipment that will perform in competition properly.
- b. Any component of a Stadium UTV deemed by the Chief Technical Inspector as necessary for operation must be in place , securely mounted, in proper working order and structurally sound.
- c. Regardless of previous approval, the permission to use specific components or equipment, including tires and fuel, may be withdrawn for any reason USAC deems in the best interest of Stadium UTV and the Robby Gordon SST Series.

2.2 Displacement

- a. Maximum displacement is 1000cc

2.3 Roll Cage and Chassis

- a. All vehicles must utilize the stock chassis and maintain the stock appearance. The Stock chassis (frame) is defined as the main lower rails running along the inner sides of the UTV and the front and rear tubes that connect them. The chassis may be modified for durability and strength but must retain the stock width, length, and configuration. Any modifications must be approved by Robby Gordon SST series and USAC.
- b. No bolt on connections to the chassis are allowed. All joints must be welded and attached securely to the frame.
- c. An aftermarket roll cage is required.
- d. Cages must be constructed with one front vertical hoop, one rear vertical hoop, two interconnecting top bars, two rear down braces, one diagonal brace, and all necessary gussets.

1. The two top interconnecting bars must be placed as far to the outside of the top part of the front and rear hoops as possible.
2. The rear down braces and diagonal brace must angle a minimum of 30 degrees from vertical. At the bottom of the diagonal brace there must be a cross member of the same tubing material and dimensions as the hoop.
 - e. There must be a minimum of 3 inches of clearance between the drivers helmet and the bottom side of the roll cage as the driver sits in a normal buckled up position.
 - f. Gussets must be installed at all major bends, angles, and connections, including the diagonal and rear down braces where weld fractures can affect the drivers safety.
 - g. Gussets must be constructed of a minimum .090 X 3 inch X 3 inch flat plate or tubing gussets made of the same material and thickness as the roll cage.
 - h. Roll cage terminal ends must be attached to a frame or body member that will support maximum impact and not shear or allow more than 1 1/2 inches of movement in the cage terminal end.
 - i. The minimum tube diameter and thickness is 1 1/2 diameter by .095 thickness.
 - j. Roll cage material must be (DOM) Drawn Over Mandrel Steel tubing or 4130 Chromoly tubing.
 - k. All tubing, welds, gussets, and roll cage construction is subject to the approval of Robby Gordon SST series and USAC.
 - l. The top left half of the roll cage, above the drivers head, must have 1 1/2 inch x .095 inch "X" diagonal bracing bars and/or be covered with .125 inch minimum aluminum plate.
 1. If plate is used, a single diagonal bar is sufficient.
 2. Plate must be attached with 2 bolts on each of the four sides.
 - m. The entire roof must be covered with sheet metal or .063 inch minimum aluminum.

2.4 Doors

- a. The door area must be covered with sheet metal or a minimum of .063 inch thick aluminum.
- b. The doors must have an "X", "A", or Ladder design bracing designed to provide maximum protection to the driver.

1. X or A designs must use a minimum 1 1/2 inch diameter by .095 , 4130 chromoly or DOM.
2. The ladder design must use a minimum 1 1/2 inch diameter by .095 inch for main rails and 1 1/4 inch by .095 inch for the rungs.

2.5 Driver Compartment

- a. The driver must be able to enter and exit the UTV driver compartment, unassisted and with ease, with the vehicle in any position.
- b. Firewalls and/or bulkheads must separate the driving compartment from any fuels, engine fluids, and battery discharges.
- c. Seats must be aftermarket safety type seats. Full containment type is highly recommended. The seat must be mounted to the seat base and the seat base must be mounted to the chassis.

2.6 Measurements and Weight

- a. The maximum width of the vehicle, measured from the outside edge of the tire to the outside edge of the tire, is 77 inches.
- b. The maximum overall wheelbase from the center of spindle to center of spindle, can be increased to 8 inches over stock dimensions.
- c. The minimum weight is 1,400 pounds including the weight of the driver.

2.7 Fenders

- a. Fenders must be securely attached to the vehicle. The removal of fenders during competition, for any reason other than damage incurred during the race, will result in disqualification.
- b. Fenders must be attached in such a fashion as not to create a pointed or sharp extrusion when removed. A loop body mounting bracket construction is mandatory.
- c. Additions to the body of the race vehicle, such as fins, scoops, wings, and other aerodynamic additions will not be permitted.
- d. Vehicles must maintain a Stock appearance to the OEM product.

2.8 Bumpers

- a. Vehicles must have front and rear bumpers. All bumpers are subject to approval by Robby Gordon SST series and USAC.
- b. Any hazardous bumpers, nerfing bars, frame heads, or other protruding objects from the vehicle will NOT be permitted.
- c. The rear bumper must be secured to the frame using a minimum 1 1/2 inch diameter .095 inch chromoly stud.
- d. The rear bumper must be designed to inhibit two vehicles from becoming locked together.
- e. Ends must be capped and rounded with no sharp edges.
- f. Side nerfing bars are strongly recommended.
- g. Minimum front bumper width is 35 inches.

2.9 Skid Plates / Floorboards

- a. Skid plates designed to reasonably protect the front suspension, steering, and brake components are recommended on all vehicles. Plates must be made of metal and be securely attached.
- b. Stock UTV floorboards are acceptable but extra protection made of metal or aluminum is strongly recommended.

2.10 Suspension

- a. All A-arm mounting points must remain in the stock location and position as delivered from the manufacturer, however they must be reinforced for strength.

2.11 Steering

- a. All steering components must be in good operating condition. The drag link and tie rod ends must be secured with a cotter pin. If Robby Gordon SST series or USAC officials deem the steering unsuitable the vehicle will not be allowed to compete.

- b. Power steering is permitted

2.12 Shocks

- a. There must be at least one and only one shock absorber per wheel in working condition to start the race.
- b. Mounting locations for shock absorbers may be altered from the original design.

2.13 Bump Stops

- a. Suspension bump stops must be of the solid type.

2.14 Torsion System

- a. The only acceptable torsion system is coil-over shock.

2.15 Wheel Spacers

- a. Wheel spacers are permitted.

2.16 Brakes

- a. Brakes must be in safe working condition and be able to apply adequate force to lock up all four tires. Brakes must remain in safe working condition during the entire event.
- b. Turning or cutting brakes is not permitted.

2.17 Engine

- a. All vehicles must use stock engine cases and cylinder head.
- b. All vehicles must use the same fuel delivery system as stock and designed by the OEM. Electric fuel pumps are permitted.

2.18 Superchargers and Turbochargers

- a. Superchargers and Turbochargers are not permitted

2.19 Auxiliary Equipment

- a. All vehicles must start the race with a functional generator or alternator, fan, water pump (water cooled vehicles), and a complete functional electrical system.

2.20 Ignition

- a. All vehicles must have an on/off switch in good working order. The switch must be labeled as ignition and what is on and off. It must be located on the left hand side of the dash panel, and must be accessible from outside the race vehicle. A red circle around the ignition switch is strongly recommended so it is easily recognized by safety personnel.
- b. All electric fuel pumps with independent switches must be labeled and show what is on and off. It must be within easy reach of the driver and accessible from outside the vehicle.
- c. No changes to CDI or ECU's are permitted and they must have the stock fuel mapping.

2.21 Batteries

- a. Batteries must be securely mounted.
- b. Wetted fiber or gel cell batteries only. Liquid lead acid batteries are not permitted.
- c. Batteries may be located in the drivers's compartment with an adequate firewall or factory engine cover.

2.22 Cooling

- a. Oil coolers, transmission coolers, and radiators located ahead of the driver or in the passenger compartment must have a shroud that will prevent liquids from blowing back or leaking onto the driver in the event of rupture or leakage.

- b. All hoses running through the driver compartment must be shielded. Steel braided hose does not constitute a shield.

2.23 Exhaust

- a. Exhaust systems must be a minimum of 6 inches away from fuel lines and 18 inches away from fuel filler.
- b. Muffler must not allow a maximum decibel reading of 95 dBa at anytime throughout the event. Some local jurisdictions will require an even lower maximum dBa output which will be expressed in written bulletins and all teams will be required to meet the local requirements.

2.24 Starter

- a. All vehicles must be self starting by use of an on-board electric starter.

2.25 Engine Replacement

- a. Engines may be replaced or changed during an event only if the competitor properly notifies a Robby Gordon SST series or USAC Official.
- b. An engine change will result in being placed at the back of the line-up for the main event.

2.26 Fuel Cells

- a. The Stock OEM fuel cell, original to that vehicle is required.
- b. No pressure systems will be allowed. Any pressure type containers, feed lines, or actuating mechanisms will not be permitted, even if inoperable.
- c. The fuel cell must have a chassis or body cross member of substance between the fuel cell and the driver and be protected on the underside.
- d. Fuel cells must be dated from the manufacturer.
- e. Fuel filler lines and positive locking non-vented fuel filler caps must be located and secured in such a manner as to prevent them from being knocked off at any time.

- f. A splash shield must be in place to direct any spill away from the driver, motor, and motor exhaust. A body panel is considered a sufficient splash shield.
- g. The fuel cell vent cannot be directed into the driver compartment.
- h. The fuel cell must be mounted directly to the chassis and cannot be mounted on the skid plate.
- i. A fire access door is required on top of the fuel cell cover. The door must be labeled and easily recognized by safety crews.

2.27 Fuel

All Stadium UTV's must use petroleum-based fuel with the following clarifications:

- a. The specific gravity must fall within the range: .715 - .775 at 60 degrees fahrenheit.
- b. The maximum oxygen content is 4.0% m/m.
- c. The only allowable oxygenates are ether and alcohols, as listed and characterized for oxygen mass fraction in American Society for Testing and Materials (ASTM) D4814.
- d. Epoxides (i.e. propylene oxide) will not be considered ethers. Nitrogen-bearing compounds are not allowed.
- e. Lubrication additives are permitted provided the resulting mixture meets all other requirements.

2.28 Transmission

- a. Every Stadium UTV must use the stock transmission and clutch design. Transmissions can have weight, spring, and cam modifications.
- b. The stock rear differential must be used
- c. All Stadium UTV's must have a functional reverse gear.

2.29 Clutch

- a. Must be stock clutch design

2.30 Wheels and Tires

- a. Maximum tire size is 28 inches outside diameter
- b. No more than 1 tire per corner
- c. Wheels cannot be bigger than 14" diameter and 8" wide.
- d. ONLY TIRE MANUFACTURERS THAT ARE REGISTERED WITH THE ROBBY GORDON SST SERIES ARE ALLOWED IN COMPETITION

NOT APPROVED TREAD





2.31 Ride Height

- a. The minimum ride height for a Stadium UTV is 10” as measured across the entire bottom side of the UTV.

2.32 Mirrors

- a. Rear view mirror's are not allowed .