

****Text in red has been updated for 2017****

Note: These UTV rules are shared by LOORRS as well as all LORORS series. In addition to the class specific rules herein, all general rules written for each applicable series apply as well. Please refer to the series general rule book for more information.

LUCAS OIL OFF ROAD RACING SERIES UTV RULES ADDENDUM TO THE GENERAL RULES

PREFACE

The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all Lucas Oil Off Road Racing Series (LOORRS) events, and, by participation in these events, all LOORRS members are deemed to have acknowledged, accepted and complied with these rules. No express or implied warranty of safety shall result from publications of, or compliance with these rules and/or regulations. The rules are intended as a guide for the conduct of the sport, and are in no way a guarantee against injury or death to participants, spectators or others.

LOORRS rules are the sole property of the Lucas Oil Off Road Racing Series. Use of these rules by any other organization or individual is forbidden unless prior written consent is given by LOORRS.

LOORRS, its parent, affiliates, members, officers, directors or staff assumes no responsibility, legal or otherwise, for failure or malfunction of any products of manufacturers listed in this rulebook. LOORRS is NOT liable for actions or decisions made by individuals, promoters, or organizations, etc. using LOORRS rules.

Specifications and/or suggested standards contained in this rule book are intended for use as a guide with respect to safety and for no other purpose either expressed or implied. The use of the specifications and/or suggested contained herein by any association, organization, manufacturer or individual is entirely voluntary and **LOORRS will NOT** accept any responsibility for consequences resulting from the application or said specifications and/or suggested standards.

The spirit and intent of the rules is going to be the standard by which Lucas Oil Off Road Racing Series is guided. **If this rule book does not specifically say that you can do something, then you must consider that the change is illegal.** It is the responsibility of each participant to ensure that his/her conduct and equipment complies with all applicable rules. **These rules are subject to amendment or change by Lucas Oil Off Road Racing Series headquarters at any time in the interest of competition.**

This rule book is intended to serve as a guide for the conduct of short course racing and is in no way a guarantee against injury or death to participants, spectators, or others.

**LUCAS OIL OFFROAD RACING SERIES UTV RULES
ADDENDUM TO THE GENERAL RULES**

The following rules are intended to provide a cost effective, competitive fun entry level off road racing class. If there is not a rule here specifically allowing a modification from stock, it cannot be modified.

Unlimited UTV: Heavily modified UTV up to 1000cc displacement.

SR1 UTV: Heavily modified Yamaha Rhino, utilizing a Yamaha R1 1000cc engine or a Kawasaki Teryx, utilizing a ZX-10, 1000 cc engine.

~~**RZR XP:** Stock Polaris RZR XP 900 UTV~~

Production 1000: Stock 1000 cc UTV

Production Turbo: Stock 1000 cc factory turbo UTV

RZR 170: Stock Polaris RZR 170 UTV driven by children ages 6-12

UTVR-1 Marking and Identification

- A. All vehicle numbering is subject to approval and is assigned by LORORS.
- B. LORORS officials may require a competitor to use a different number to avoid confusion or duplication at an event.
- C. In the event that a number is not visible from the timing and scoring area, the competitor will not be scored. It is the competitor's responsibility to make sure that the number is visible during all race conditions.
- D. Advertising on race vehicles must be in good taste.
- E. Foil or reflective numbers are not permitted.
- F. All LORORS vehicles are required to have LORORS stickers on each side of the front of the door area, 4 inches down from the window opening.
- G. LORORS may require the use of specific sponsor decals.
- H. Team vehicles with the same paint and colors must have distinguishing markings of some kind.

UTVR-2 Numbers

- A. Numbers are 600-699 for the Unlimited UTV class.
- B. Numbers are 700-799 for the ~~RZR XP~~ **Production Turbo** class.
- C. Numbers are 1-99 for the SR1 UTV class.
- D. Numbers are 900-999 for the Production 1000 class.
- E. Numbers are 100-199 for the RZR 170 class.
- F. Numbers must be applied side by side. **No outlines, stacking or shadows allowed. Italic slant of 25 degrees or less is allowed.**
- G. **Fonts must be chosen from one the below approved styles only:**
 - 1. **Impact**
 - 2. **Helvetica Black**
 - 3. **Mechanical Bold**
- H. Number plates must be white with solid black block style numbers.
- I. Numbers must be located in the following positions:

1. One number on each side of the vehicle, on a number plate mounted high and close to the back of the roof. Minimum number plate size: 10 inches high by 14 inches long. Minimum number size: 8 inches by 1 ½ inches.
2. The back of the vehicle facing the rear, on a number plate. Minimum number plate size: 6 inches high by 8 inches wide. Minimum number size: 5 inches by 1 ½ inches.
3. Roof of vehicle. Minimum number size: 8 inches by 1 ½ inches.
4. Upper left hand corner of windshield area. Minimum number size: 4 inches.

UTVR-3 Roll Cage & Chassis

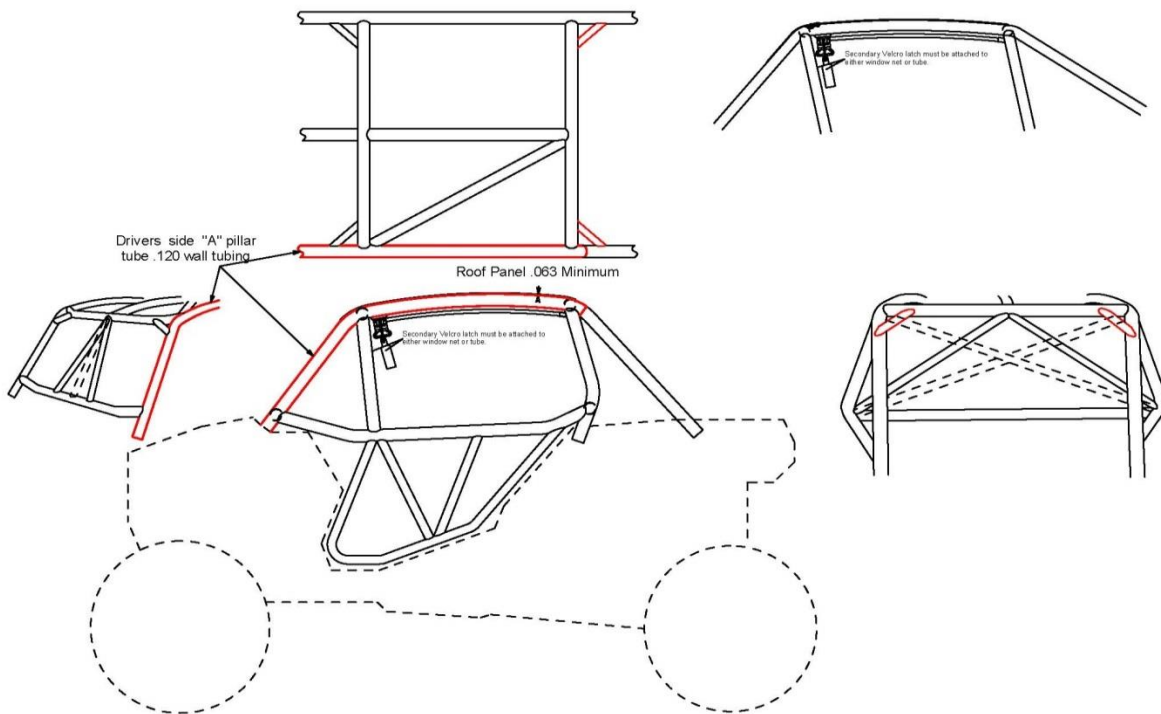
- A. All vehicles must utilize the stock chassis and maintain stock appearance. The stock chassis (frame) is defined as the main lower rails running along the inner sides of the UTV and the front and rear tubes that connect them. The chassis may be modified for durability and strength but must retain the stock width, length, and configuration. Any modifications must be pre-approved by LORORS officials.
- B. After market roll cage required.
- C. 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. 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. 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.
- D. There must be a minimum of 3 inches clearance between driver's helmet and roll cage.
- E. Gussets must be installed at all major intersections, including diagonal and rear down braces, where single weld fractures can affect occupant's safety.
- F. Gussets may be constructed of minimum .090 inch x 3 inch x 3 inch flat plate or tubing gussets made of same material and thickness as roll cage.
- G. 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 ½ inches of movement in the cage terminal end.
- H. Minimum tubing diameter and thickness is 1 ½ inch diameter by .095. This includes the front to back mid rail shoulder bar.
- I. Roll cage material must be dom or 4130 chromoly.
- J. All tubing, welds, gussets, and roll cage construction must be approved by LORORS.
- K. Entire roof must be covered with sheet metal or .063 inch minimum aluminum.
- L. **SR1:** Yamaha vehicles must utilize the stock Rhino chassis or Weller aftermarket chassis. Kawasaki vehicles must utilize the stock Teryx chassis.
 1. No bolts on connections to chassis are allowed. All joints must be welded and attached to the frame securely.
 2. Top left half of roll cage above driver's head must have one 1 ½ inch x .095 inch 'X' diagonal bracing bars and/or be covered with .125 inch minimum aluminum plate.
 3. If plate is used, a single diagonal bar is sufficient.
 4. Plate must be attached with 2 bolts on each of the four sides.
- M. **Production Turbo, Production 1000 & Unlimited UTV:**
 1. 1 ¾ inch chromolly tubing is highly recommended for main roll cage tubes.

2. Driver's side only main A pillar hoop must be .120 inch minimum tubing on all new roll cages. This is the tube from the left front top of fender cage mount up to the A pillar back over driver's left shoulder to rear main hoop.
3. One front to back center bar is required in top cage. Top left half of roll main cage above driver's head must have one 1 ½ inch x .095 inch diagonal bracing bar.
4. It is recommended that stock cage mounts and seat belt mounting plates be reinforced.
5. Roll cage width must be similar in style to a stock 2 seat UTV. No narrow width cages.
6. Preferred method of race cage mounting is bolt on roll cages. Welded on cages are allowed but must be approved.

N. RZR 170:

1. 1 ¼ inch x .095 inch minimum tubing is required for main roll cage.
2. Top of roll cage above driver's head must have either an 'X' or a front to back center bar.

PRODUCTION TURBO, PRODUCTION 1000, RZR 170 & UNLIMITED UTV BASIC ROLL CAGE & DRIVER DOOR BAR DESIGN



UTVR-4 Doors

- A. Door area must be covered with sheet metal or a minimum of .063 inch thick aluminum. Panel must be attached with bolts or dzus buttons.

- B. **SR1:** Doors must have 'X', 'A' or Ladder design bracing designed to provide maximum protection to the driver.
 1. X or A designs must use a minimum 1 ½ inch diameter by .095, 4130 chromoly or DOM.
 2. Ladder design must use a minimum 1 ½ inch diameter by .095 for main rails and 1 ¼ inch by .095 for rungs.
- C. **Unlimited, Production Turbo & Production 1000:** Door opening must have a 'U' shaped tube bent to follow the door opening. **Fully integrated door bars to floor are also allowed.** Tube must be a minimum 1 ¼ inch diameter by .095, 4103 chromoly or DOM.
 1. U shaped tube must be attached in multiple spots to stock frame or chassis.
 2. Doors must have 'X', 'A', 'V' or Ladder design bracing designed to provide maximum protection to the **driver's side.**
 3. X, A or V designs must use a minimum 1 ¼ inch diameter by .095, 4130 chromoly or DOM.
 4. Ladder design must use a minimum 1 ¼ inch diameter by .095 for main rails and 1 ¼ inch by .095 for rungs.
- D. **RZR 170:** Door opening must have a 'U' shaped tube bent to follow the door opening. Tube must be a minimum 1 inch diameter by .095, 4103 chromoly or DOM.
 1. U shaped tube must be attached in multiple spots to stock frame or chassis.
 2. Doors must have 'X', 'A', 'V' or Ladder design bracing designed to provide maximum protection to the driver.
 3. X, A or V designs must use a minimum 1 inch diameter by .095, 4130 chromoly or DOM.
 4. Ladder design must use a minimum 1 inch diameter by .095 for main rails and 1 inch by .095 for rungs.

UTVR-5 Driver Compartment

- A. Driver must be able to enter and exit, unassisted and with great ease, the driving compartment with the vehicle in any position. Firewalls and/or bulkheads must separate the driving compartment from any fuels, engine fluids, and acids.
- B. **Production Turbo, Production 1000 & RZR 170:**
 1. Race seat is required. Driver's seat must be **within 2 inches left or right of** stock location and be bolted in.
 2. Seat may be lowered. Stock plastic panel below seat to floor may not be cut down or trimmed with the exception of minimal holes allowed for seat tabs or mounting of seat. Minimal trimming may be allowed in the case of full containment seats. This must be pre-approved by LORORS.
 3. If no passenger seat is used, gas tank area must be completely covered with aluminum firewall
- C. **Production 1000 & Production Turbo:**
 1. Dash and all floor and interior panels in stock location are required. **Stock dash is recommended, however aluminum will be allowed.** Minimal cuts or openings are allowed for roll cage and tabs. Glove box and door and center foam lined storage box may be removed.
 2. **Stock rear firewall is recommended, however aluminum will be allowed. Rear firewall can only be replaced with complete, tightly fitting .063" aluminum and must be stock height or above to completely replace the stock plastic firewall. No holes, screens or openings allowed.**

3. Driver side foot floor well can be covered or replaced with .090" aluminum for safety.
4. Lower front firewall can be covered or replaced with .063" aluminum for safety.
5. No complete aluminum interiors are allowed. With the exception of the panels specified above, all other floor and interior panels must remain stock.

D. RZR 170:

1. Stock dash and all floor and interior panels in stock location are required. Minimal cuts or openings are allowed for roll cage and tabs. Glove box and door and center foam lined storage box may be removed.
2. Rear firewall only can be replaced with complete, tightly fitting .063" aluminum.
3. Bed plastic may be removed or remounted for easy removal for service.
 - a. If rear bed plastic is removed, aluminum panel must extend 6" toward rear from top of firewall. This flat panel would extend from top of firewall back 6" and cover complete bed width from side to side.

UTVR-6 Measurements & Weight

- A. All measurements will be performed with LORORS technical instruments and gauges. LORORS officials determine all measurements and center points.
- B. Driver will be included in race vehicle's minimum weight.
- C. Vehicles can be courtesy weighed prior to competition.
- D. LORORS officials must approve all weight material.
- E. Added weight must be in block form.
- F. Blocks must weigh no less than 5 pounds each and cannot be made of liquid of any type, pellets, or other granulated weight.
- G. Added weight must be securely bolted in place on the race vehicle.
- H. Dislodged weight cannot be returned to the vehicle for weighing at the end of the race.
- I. All block ballast must be painted white and identified with vehicle number.
- J. Weight can be sealed at the discretion of LORORS officials.
- K. No weight shifting devices of any kind are allowed. This includes, but is not limited to hydraulic or electronic devices.
- L. All vehicles will weigh in before and/or after competition at the discretion of LORORS officials. Failure to do so will result in disqualification.
- M. All weight loss on track will result in a \$5.00 per pound fee.
- N. Weight may be adjusted at the discretion of LORORS officials throughout the season in the interest of competition.
- O. **Unlimited:** The maximum overall wheelbase from spindle to spindle can be increased to 8 inches over stock dimensions. The minimum vehicle weight is 1400 pounds including driver.
- P. **Production Turbo:** The minimum vehicle weight and maximum overall width is TBD.
- Q. **Production 1000:** The maximum overall width is TBD. Minimum vehicle weights:
 1. RZR: 1610 pounds including driver
 3. Arctic Cat & Can Am: 1610 pounds including driver.
 4. Yamaha: 1780 pounds including driver.
- R. **RZR 170:** The minimum vehicle weight is 700 pounds including driver. The maximum overall width is 53.5 ". The maximum wheelbase is 68.5".
- S. **SR1:** Maximum width is not to exceed 78" wide (measured from outside of tire to outside of tire at the widest point). The maximum length is not to exceed 83" (measured from the center of front hub to center of rear hub). The minimum vehicle weight is 1400 pounds including driver.

UTVR-7 Fenders

- A. Fenders must be securely attached to vehicle. The removal of fenders during competition during 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 extruding additions will not be permitted.
- D. Vehicles must maintain an appearance similar to the stock UTV.
- E. **SR1 & Unlimited:** A loop body mounting bracket construction is mandatory.
- F. **Production Turbo, Production 1000 & RZR 170:** All body panels must be stock or aftermarket stock replacement & be mounted in the stock location.
 - 1. Two piece rear bed plastic may be removed or stock bed bottom and sides of bed may be cut out.
 - 2. Front headlights and rear taillights can be removed. Aluminum fill-in panels with stickers that look like lights are recommended.
 - 3. **Rear taillight body panel may be removed.**

UTVR-8 Bumpers

- A. Vehicles must have front and rear bumpers. LORORS officials must approve all bumpers.
- B. No hazardous bumpers, nerf bars, frame heads or other protruding objects from vehicles are permitted.
- C. **Bumpers and nerf bars cannot be made from aluminum.**
- D. Rear bumper must be secured to frame using a minimum 1 ½ inch diameter .095 chromoly.
- E. Bumpers must be designed in such a way as to inhibit two vehicles from becoming locked together.
- F. Ends must be capped and rounded with no sharp edges. All bumpers must have looped ends.
- G. **SR1 & Unlimited:** Vehicles must have front and rear bumpers. Rear bumper must be secured to frame using a minimum 1 ½ inch diameter .095 chromoly. Minimum front bumper width is 35 inches. Side nerf bars are recommended.
- H. **Production Turbo, Production 1000:** Side nerf bars are mandatory. **Nerf bars must be at least as wide as the center line of tire or wider from front to back. Length should be a minimum of 12 inches from the front and rear tires.**
- I. **RZR 170:** Side nerf bars are mandatory. Bumpers are optional at this time but are highly recommended. If bumpers are used, above bumper rules must be followed.

UTVR-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 highly recommended.

UTVR-10 Suspension

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

- B. **SR1:** Stock suspension, or any suspension less than 6 inches over stock will not be allowed.
- C. **Production Turbo & Production 1000:** Aftermarket stock length replacement arms and links may be used. Rear sway bar manufacturer and mount location is open. Limit straps are allowed.
- D. **RZR 170:** Aftermarket front arms 3" wider than stock are allowed. Rear aftermarket replacement swing arm is allowed.

UTVR-11 Steering

- A. All steering components must be in good condition and proper working order. Drag link and tie rod ends must be secured with a cotter pin in each one.
- B. Power steering is permitted.
- C. LORORS officials must consider steering reasonably safe before vehicle is permitted to compete.
- D. **Production Turbo & Production 1000:** Aftermarket replacement steering rack and tie rods are allowed.
- E. **RZR 170:** Aftermarket tie rods are allowed.

UTVR-12 Shocks

- A. There must be at least one and only one shock absorber per wheel in working condition at the start of the race.
- B. **SR1 & Unlimited:** Shock absorber mounting points may be moved.
- C. **SR1:** Max shock length not to exceed 10 inches of shaft travel.
- D. **Production Turbo, Production 1000 & RZR 170:** Shock mounts must remain in stock location but can be reinforced. No bolt on extensions. No **external** bypass shocks. Shock manufacturer is open.
- E. **RZR 170: Air shocks are permitted.**

UTVR-13 Bump Stops

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

UTVR-14 Torsion System

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

UTVR-15 Wheel Spacers

- A. Wheel spacers are permitted.

UTVR-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 entire event.
- B. Turning or cutting brakes are not permitted.
- C. **Production Turbo & Production 1000:** Aftermarket brakes are allowed. **Aftermarket hubs are allowed as long as stock dimensions are maintained.**

UTVR-17 Engine

- A. All vehicles must use stock engine cases and cylinder head. LORORS reserves the right to mark engine blocks prior to event.
- B. All vehicles must use same fuel delivery system as stock and designed by factory. Electric fuel pumps are permitted in accordance with LORORS safety requirements for fuel pumps.
- C. **Unlimited UTV:** Engine displacement not to exceed 1000 cc.
- D. **SR1:**
 - 1. Stock Yamaha R1 engine (year 2002-2008) is allowed.
 - 2. Stock Kawasaki ZX-10 engine (year 2004-2010) is required for all Teryx vehicles.
 - 3. Stock Honda CBR1000 engine (year 2004-2012) is allowed.
 - 4. No modifications of any kind can be made to engine.
 - 5. No modifications to throttle bodies can be made.
 - 6. R1 tip over sensor must be left intact and in working order on Rhinos.
 - 7. Engines must be mounted between the driver and passenger seat locations utilizing the spec mounting plate. Contact LORORS officials for details.
 - 8. Valve spring shims are allowed for valve adjustment.
- E. **Production Turbo, Production 1000 & RZR 170:** Engine year and vehicle model year may be different with prior approval only. Engines and all internal parts must remain completely stock for that model year. No internal modifications.
 - 1. Stock throttle body must be used.
 - 2. Air intake/air cleaner is open.
 - 3. Flywheel must remain stock with no modifications made.
- F. **RZR 170:** stock carb as delivered from factory must be used.
- G. **Production 1000:**
 - 1. RZR 900 cam buckets, lash shims and retainers are allowed. No aftermarket cam buckets or retainers are allowed.
 - 2. GYTR internal parts are not allowed.

UTVR-18 Superchargers & Turbochargers

- A. **SR1, Production 1000 & RZR 170, Unlimited UTV:** Superchargers or turbochargers are not permitted.
- B. **Production Turbo:** Factory installed turbochargers are allowed. No modifications are allowed.

UTVR-19 Auxiliary Equipment

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

UTVR-20 Ignition

- A. All vehicles must have a positive action on/off switch in good working order. Switch must be labeled "ignition on/off", have a red circle around it, be located on the left hand side of the dash panel, and must be accessible from the outside of the race vehicle. Red circle must be at least 1 inch wide.
- B. All electric fuel pumps with independent switches must be labeled "fuel on/off" and be within easy reach of the driver and accessible from the outside of the vehicle.

- C. **SR1 & Unlimited:** Aftermarket CDI boxes/ECUs are permitted with LORORS approval. Ignition switch must be located on the left hand side of the dash panel, and must be accessible from the outside of the race vehicle.
- D. **Production 1000:** Stock ignition switch is allowed. ~~ECU is open.~~ Stock OEM ECU is required. ECU may be flashed.
- E. **Production Turbo:** Stock OEM ECU is required. ECU may be flashed.
- F. **RZR 170:** Stock ignition is allowed. ECU is open. Power commander is allowed.

UTVR-21 Batteries

- A. Batteries must be securely mounted with metal-to-metal tie downs.
- B. Wetted fiber or gel cell batteries only. Liquid lead acid batteries are not permitted.
- C. Batteries may be located in the driver's compartment with an adequate firewall or factory engine cover.

UTVR-22 Cooling

- A. Oil coolers, transmission coolers, ~~and radiators~~ located ahead of the driver or ~~behind cockpit in the passenger compartment~~ must have a shroud that will prevent liquids from blowing back or leaking onto the driver in the event of a rupture or leakage. ~~Radiators may not be in cab or cockpit area.~~
- B. All hoses running through the driver compartment must be shielded. Steel braided hose does not constitute a shield.
- C. Radiator may be relocated to back behind passenger cab area. If radiator is mounted close to driver, panels are required to keep hot coolant off of driver.

UTVR-23 Exhaust

- A. **SR1 & Unlimited:** Exhaust systems must be a minimum of 6 inches away from fuel lines and 18 inches away from fuel filler. Muffler must meet a maximum decibel of 100 as measured 50 feet from track side.
- B. **Production Turbo, Production 1000 & RZR 170:** Aftermarket exhaust is allowed. ~~Titanium exhaust is allowed but must be approved.~~
- C. **RZR 170:** Aftermarket exhaust is allowed.

UTVR-24 Starter

- A. All vehicles must be self-starting by use of an onboard electric starter.

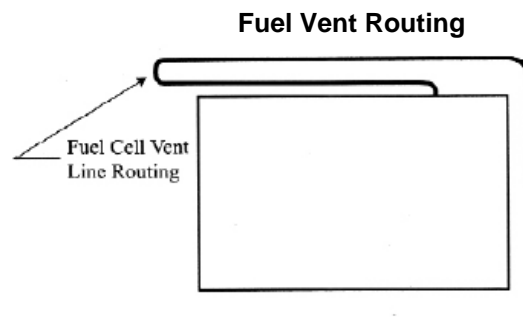
UTVR-25 Engine Replacement

- A. Engines may be replaced during a LORORS event only if competitor has notified LORORS officials.
- B. Engine change may result in a starting position change.

UTVR-26 Fuel Cells

- A. All fuel cells must be LORORS approved.
- B. LORORS will reject any previously approved fuel cell, which appears to be defective, damaged, or not in proper condition.

- C. No pressure systems will be allowed. Any concealed or not concealed pressure type containers, feed lines or actuating mechanisms will not be permitted, even if inoperable.
- D. Icing, Freon type chemicals, or refrigerants may not be used in or near the fuel system.
- E. The use of a commercially manufactured fuel cell is mandatory. Aluminum cans with foam inside are not allowed.
- F. Safety fuel cells shall consist of a bladder enclosed in a smooth skinned container. The container shall be constructed of 20 gauge steel, 0.060-inch aluminum or 0.125-inch Marlex. Rotary molded polymer cells are acceptable.
- G. No material other than standard foam as provided by the fuel cell manufacturer is permitted.
- H. Fuel cell must have a chassis or body cross member of substance between the fuel cell and driver and be protected from ground obstacles.
- I. Fuel cells must be dated from manufacturer. Fuel cells will become obsolete five years after date of manufacture and must be replaced.
- J. All fuel cell fillers and vents must have check valves installed.
- K. 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 or opened during movement, rollover, or impact.
- L. 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.
- M. Fuel cell cannot be vented into the driver's compartment of any vehicle.
- N. All mountings must be LORORS approved. Fuel cell must be mounted to chassis and cannot be mounted on skid plate.
- O. Any fuel cell mounted in the passenger compartment area must be fully enclosed with sheet metal or aluminum.
- P. An 8 inch by 8 inch fire access door is required on top of the fuel cell cover. This door must be painted red and labeled FIRE DOOR.
- Q. Any battery or electrical components mounted in the passenger compartment with the fuel cell must be separated by sheet metal or aluminum.
- R. **Aftermarket fuel pump and regulator are allowed.**
- S. **Production Turbo, Production 1000 & RZR 170:** Stock fuel tank is allowed in stock location. Tank, lines and fuel filler may not be modified in any way.



All fuel cell vents and lines must come out of the top of the fuel cell as pictured.

UTVR- 27 Fuel

- A. Fuel shall be automotive gasoline only.

- B. Gasoline shall not be blended with alcohols, ethers, or other oxygenates, and it shall not be blended with aniline or its derivatives, nitrous compounds, or their nitrogen containing compounds.
- C. Cooling of any type of fuel is not permitted during competition.
- D. In the event an "official fuel" is named, LORORS will sample the actual fuel provided at the track by the fuel supplier and that sample will become the benchmark from which all competitors samples will be judged.
- E. LORORS has the right to sample a competitor's fuel at any time. All samples will be impounded for observation and/or testing by LORORS or outside laboratories at LORORS discretion.
- F. No nitrous oxide.
- G. If LORORS officials suspect maskers in the fuel, chemical testing will be conducted at possible expense to the competitor.
- H. Penalties for use of hazardous chemicals will be severe including fine, and/or reduction of points, disqualification and/or suspension.
- I. **Production Turbo, Production 1000 & RZR 170:** Pump gas with a maximum of 91 octane must be used. Race fuel is not allowed.

UTVR-28 Transmission

- A. **Unlimited, Production Turbo & Production 1000:**
 - 1. Every vehicle must use the stock transmission and clutch design.
 - 2. The stock rear differential must also be used.
 - 3. All vehicles must have a functional reverse gear.
 - 4. Aftermarket axles and c/v joints are allowed.
 - 5. Stock transmission and differential gear ratios **and gears** only. **No GYTR internal parts are allowed.**
- B. **RZR 170:** Wider rear axle is allowed.
 - 1. Gearing is open.
 - 2. **Side cover added bearing and shaft gear fix is allowed. No other modifications or coatings are allowed.**
- C. **SR1:** Must use stock transmission as delivered from manufacturer. Vehicle must use direct chain drive.

UTVR-29 Clutch

- A. **SR1:**
 - 1. Must use stock clutch design as delivered from manufacturer.
 - 2. After market clutch plates and springs will be allowed.
 - 3. Must utilize either a clutch pedal mounted on floor or mounted on shifter, as well as a stick shift style shifter.
 - 4. Electric paddle shifters and automatic clutch systems are not allowed.
- B. **Production Turbo & Production 1000:**
 - 1. Must use stock clutch and design as delivered from manufacturer.
 - 2. No billet or aftermarket clutches.
 - 3. Clutches may not be modified in any way.
 - 4. After market springs, weights and helix are allowed.
 - 5. **Factory paddle shifters as delivered from factory are allowed. No retro fitting to other years, makes or models.**

C. RZR 170:

1. Stock clutch, aftermarket ~~C&D, Sims~~/Dr. Pulley and NCY clutches are allowed.
2. Must use clutch and design as delivered from manufacturer.
3. Clutches may not be modified in any way.
4. After market springs, weights and helix are allowed.

UTVR-30 Wheels & Tires

- A. **Production Turbo, Production 1000 & Unlimited:** Maximum tire size is 30 inches outside diameter.
- B. **SR1:** Maximum tire size is 26 inches outside diameter.
- C. No more than 1 tire per corner is permitted.
- D. Tires will be visually checked and must be considered reasonably safe by LORORS prior to competing.
- E. All bead locks must have recessed bolts only that do not protrude past the face of the ring. Button head bolts may be used if bead lock bolt area cannot be recessed.

UTVR-31 Fasteners

- A. All components on the vehicle's suspension system, chassis, and running gear must be secured with S.A.E. Grade 8 or better nuts and bolts.
- B. Bolts must be secured with either lock nuts, lock washers, cotter pins, or safety wire and have at least one full thread showing through the nut.

UTVR-32 Hoses

- A. All fuel and brake line hoses including metal lines and fittings must be clamped and/or safety wired.

UTVR-33 Mirrors

- A. Rear view mirror with at least 6 square inches of mirror surface and a reasonably unobstructed view of area behind vehicle is recommended on all vehicles.

UTVR-34 Exotic Materials

- A. No titanium or any other exotic materials or fasteners may be used anywhere in the vehicle.

UTVR-35 Transponders/Timing

- A. Remote score timing devices will not be permitted by teams, owners, or anyone associated with an entry, unless approved by LORORS.
- B. All teams are required to purchase remote timing transponders. Transponders can only be purchased through LORORS and numbers must be recorded with LORORS officials.
- C. Drivers are responsible for the charging and installation of all transponders. Any entry without a properly installed, functioning transponder may not be scored and may be subject to further penalty.
- D. Transponders must be mounted 10 inches back from the leading edge of the front bumper on the passenger side.