

## **UTV SUPER STOCK TURBO**

**UPDATED 11/10/22 PLEASE NOTE ALL BITD GENERAL AND SAFETY RULES MUST BE FOLLOWED. ALL UTV VEHICLES MUST USE A SAFETY TRACKING SYSTEM FROM [WWW.RACINGTRAX.COM](http://WWW.RACINGTRAX.COM) AT 801-836-5198 AT ALL BITD RACES. ANY RULE CHANGES OR UPDATES WILL BE POSTED ON [www.BITD.com](http://WWW.BITD.COM)**

**GENERAL REGULATIONS:** Class entrants shall comply with all class and applicable general regulations. **Note:** The SCR abbreviations refer to the cross-reference listings at the front of this book and are part of the class rules. Where a conflict between the cross-referenced listings and a rule contained under this class occurs, the rule contained under this class has precedence.

**All UTVs must be pre-approved before racing in their first BITD event.**

**ANYTHING NOT BUILT IN COMPLIANCE WITH THE SPIRIT OF THE CLASS MAY BE DEEMED INELIGIBLE TO RACE, COLLECT POINTS, TROPHIES, PRIZE FUNDS, AND CONTINGENCY. PLEASE CONTACT THE BITD UTV TECH INSPECTOR: [utvtech@bitd.com](mailto:utvtech@bitd.com)**

All UTV race vehicles must pass all BITD safety requirements and be approved by the BITD UTV Tech Inspector.

**UTV Tech Inspection: Tech inspection is required at each Best In The Desert race for all UTV race vehicles.**

### **UTV SUPER STOCK CLASS DEFINITIONS:**

The UTV SUPER STOCK class vehicles are built using production UTVs, manufactured by registered companies, i.e., Yamaha, Polaris, Can-Am, Artic Cat, Yamaha, and Honda, that issues Vin #s. Companies must produce a minimum number of 1000 units of that exact model and configuration, before being allowed

to participate in this class in any Best In the Desert Sanctioned Event. UTVs must have 2 seats only No single-seat cars. All OEM engine electronics must be used. Ecm's may be flashed. No aftermarket ECMs are allowed. OEM engines must be used. Maximum engine size is 1000cc.

**THIS IS AN OEM PRODUCTION-BASED CLASS:**

**ALL ITEMS ARE TO REMAIN STOCK OEM EXCEPT THE LISTED ITEMS BELOW:**

- 1. Suspension arms may be aftermarket direct bolt-in. Ball joints may be replaced; UNI balls are allowed adjustable Rod ends are allowed. Arms can be lengthened to the widest available size that the manufacturer offers.**
- 2. Tie Rods may be replaced, and rod ends allowed.**
- 3. Steering racks may be replaced but must be a direct bolt-in.**
- 4. Radius rods may be replaced Adjustable Rod Ends are allowed.**
- 5. Sway Bar links may be replaced with direct bolt-in.**
- 6. Aftermarket direct bolt-in clutch kits may be used.**
- 7. Shock must bolt into OEM location manufacturers open.**
- 8. Air filters in OEM air boxes may be replaced. Stock box must be used. All hoses and charge tubes must remain OEM**
- 9. Mufflers are open.**
- 10. Steering wheels open.**
- 11. Race seats are allowed.**
- 12. Wheels and tire 33X10.5 max wheel offsets must stay within the track width rule.**
- 13. Radios gauges and lights are open.**
- 14. No aftermarket alternators only OEM charging units allowed.**
- 15. Batteries may be relocated but must follow battery rules. The size is open.**
- 16. Maximum fuel capacity 15 gallons.**
- 17. Axles are open CV must fit into OEM stub axles but may be replaced.**
- 18. Radiators can be replaced but must remain in OEM exterior dimensions and must bolt directly to the OEM location. Cooling rows may be added.**

Plastic OEM bodies must remain intact and in the stock location with minimum notching for roll cage and bumpers, this includes the stock bed. The door area must be covered with Aluminum.

UTV. This Pro Class does have a point championship, a points championship fund, and an individual race purse. The minimum age for a driver in any UTV Pro class is 14 years old and must be 14 by the date of the event. Co-driver age is not restricted.

### **UTV-1 PENALTIES:**

At the discretion of the UTV director, Any UTV race team caught breaking these rules “cheating” May receive a maximum penalty of, Disqualification for the race and a 1 race suspension. Best in the Desert has the right to mark, tag, or seal any part of a race UTV. Best in the Desert has the right to confiscate any engine at any time for a class compliance inspection. A fee may be required for the inspection.

### **UTV-2 OCCUPANTS:**

All UTV’s race vehicles must have a driver and a co-driver if the OEM unit is listed as a 2-seat vehicle and both seats must be occupied in the vehicle for the entire race.

### **UTV-3 DRIVER'S MEETING:**

At least 1 “banded” race team member must attend the BITD driver's meeting at each race.

### **UTV-4 RADIO & COMMUNICATIONS:**

A VHF-type radio is required in all race vehicles. **All UTV race vehicles must have their team radio frequency posted inside their vehicle on the passenger side roof area.** Best In The Desert’s official Frequency is 151.490. The Best in the Desert frequency is required on every radio. All race teams are required to provide team-specific radio frequency information to the BITD.

### **UTV-5 SUSPENSION:**

All suspension and mounting points must remain in the stock design and the stock location and or position on the frame, as delivered by the manufacturer.

Suspension mounting points may be reinforced for strength. No suspension mounts may be moved, added, or removed.

Aftermarket Arms are permitted Ball joints are open and may be replaced with UNI ball systems. You may update to the manufacturer's widest OEM delivered width example a 64" car may be updated to a 72" track width But must not exceed the OEM manufacturer's width.

#### **UTV-6 OVERALL MEASUREMENT RESTRICTIONS:**

The max width is 78" and is measured from the outside of the tire to the outside of the tire at ride height. Width may be checked at any time. The wheelbase can be increased to +/- 3 inches over the stock dimensions. This can only be achieved through suspension. **Frames cannot be cut, lengthened, or shortened and must remain complete from the top of doors down. Frames may be gusseted for strength, but no materials may be removed.**

#### **UTV-7 SHOCK ABSORBERS:**

There must be at least one and only one **coil over shock absorber** per wheel in working condition at the start of the race. LOWER Shock absorber mounting points may be moved and strengthened but must remain on the delivered OEM arm valving and spring rates open.

#### **UTV-8 BUMP STOPS:**

Suspension bump stops are allowed. They must be of the solid type. No air bump stops.

#### **UTV-9 TORSION SYSTEM:**

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

#### **UTV-10 TIRES:**

Maximum tire size is 33x10.5x15. The tire must have the manufactured size on the tire and say 33". tires will be checked at 20lbs of pressure with +/- 1/2" allowed 3 of the 4 tires on the car must be within the +/- 1/2" rule. No multiple tires per corner are permitted.

#### **UTV-11 WHEELS:**

Maximum size is 15". **All wheels must be stamped or engraved on the outside, within 3" of the valve stem, with the race vehicles number, this includes spares. The minimum stamp size of the number is 1/4".**

#### **UTV-12 STEERING:**

OEM Power steering Boxes only Racks can be replaced but must be a direct bolt in unit racks must remain in OEM locations. Turning or steering brakes are not permitted.

#### **UTV-13 BATTERIES:**

##### **ALL UTVs MUST HAVE A BATTERY SWITCH.**

Batteries must be securely mounted with **metal attachments**. All flooded cell batteries must be fully enclosed including the sides and bottom. The enclosure must be able to contain the quantity of acid contained in the battery if inverted. Gel-filled batteries or dry-cell batteries are recommended and do not require full enclosures. **Batteries mounted in the driver's compartment must be covered and may not be liquid filled.**

#### **UTV-14 SAFETY LIGHTS:**

##### **ALL 4 REAR-FACING SAFETY LIGHTS MUST BE WIRED TO THE BATTERY SWITCH. NO OTHER SWITCHES MAY BE IN LINE WITH THE SAFETY LIGHTS**

UTVs have REQUIRED A MINIMUM OF 2 REAR FACING SAFETY LIGHTS. THEY MUST BE WIRED TO THE, REQUIRED BATTERY SWITCH. NO OTHER SWITCHES MAY BE IN LINE WITH THE SAFETY LIGHTS (CONNECTION PLUGS OR INLINE FUSE MAY BE USED)

All UTVs must have a minimum of 2 red tail lights, 2 red brake lights, 1 rear-facing Amber steady LED with a minimum of 2000 lumens 1 rear-facing flashing Amber and no less than 4 LEDs, 1 LED Green strobe light with 2000 lumens.

The amber flashing and green strobe are an attempt to identify the UTV stock class vehicle, so that faster vehicles will be able to recognize that they are approaching a slower vehicle. Safety lights must be approved by the BITD UTV Tech Inspector. **BITD rules state that all safety lights must be working at all times, if a light fails to work it must be fixed at the next pit stop, or the vehicle may continue.**

NOTE--The Green light should only be used during an official race. Green flashing lights may be illegal in some states.

All lights must be in operating condition at tech inspection. All rearward-facing lights (taillights, brake lights, blue lights, and amber lights) must be in operating condition before the vehicle will be permitted to start the race. All rearward-facing lights must be protected against damage in the event of a rollover. Tail lights/brake lights must be at least 3 inches in diameter, or be approved by Best In The Desert Racing. They must be mounted in such a manner as to be visible from the rear of the vehicle. Rearward-facing amber lights and blue lights must be approved by the BITD UTV Tech Inspector. The amber lens must be deep-coated amber in color (no other color is permitted). The blue lens must be medium-coated blue in color (no other color is permitted). The amber lights and blue lights must be mounted a minimum of 48 inches from the ground and must be visible, with no obstructions. The amber lights and green lights must remain on during the entire race.

#### **UTV-15 ENGINE LOCATION AND DISPLACEMENT:**

Maximum engine displacement is 1000cc. OEM BORE AND STROKE. Engine size will be checked and measured. OEM stock engine and Turbo with no modification.

#### **UTV-15FD FUEL DELIVERY:**

MUST BE COMPLETELY STOCKED AS DELIVERED.

#### **UTV-16 FLUID COOLERS:**

No added coolers.

#### **UTV-17 FUEL CELLS:**

Safety fuel cells are advised 15-gallon max for all vehicles but can use an OEM stock tank in the stock location with a stock fuel pump and filling hose. BED mounted Fuel cells cannot be cut into bed and must be securely mounted and properly vented. Auxiliary fuel tanks may be added. Auxiliary fuel tanks must be gravity transfer only. Alternative fuels (ie. propane or natural gas) must use an approved. Alternative-fueled vehicles may not use auxiliary fuel cells. All fuel tanks must be securely mounted. The fuel tank must be filled from and vented to the outside of the vehicle. There must be a substantial cross-member and firewall between the fuel tank and the occupants. No GI cans or fuel containers similar in construction or purpose will be permitted in or on any vehicle during the race. Use

of GI cans or other fuel containers will subject the entrant to a time penalty or disqualification. Safety fuel cells shall consist of a bladder enclosed in a smooth-skinned container. The container shall be constructed of 20ga. Steel or .060-inch aluminum. Magnesium is strictly prohibited. The container must be securely attached to vehicles with bolts or steel straps. All fittings must be built into the skin and bonded to the skin as an integral part of the tank or mechanically sealed by a ring and counter ring system by either a flat joint or an “O” ring. Internal baffling is mandatory in all fuel cells. Bladder construction shall be of nylon or Dacron woven fabric impregnated and coated with a fuel-resistant elastomer. Rotary-molded polymer cells are acceptable. The physical properties’ minimum standards are in Table 1.

**Table 1 Test Type Minimum Standard Test Specification**

Tensile Strength 450 lbs. Spec CCC-T-1916 Method 5102

Tear Strength 50 lbs. Spec CC-T-1916 Method 5134

Puncture Test 175 lbs. Spec MIL-T-6396 Article 4.5.17

These physical properties must be maintained throughout all areas of the finished bladder including seams, joints, and fittings.

**UTV-17A FUEL FILLER NECK:**

Fuel filler must be located as far away from the exhaust and engine as possible. If the filler neck is on the same side as the exhaust, it must be a minimum distance of 12” forward from the exhaust. Fuel filler must be completely separated from the driver’s compartment. Splash guards have required a minimum of 3” a splash guard is required to prevent fuel from splashing on the driver or navigator. If standard hose clamps are used, two clamps must be used at each connection. If “T-Bolt” (turbo style) clamps are used only one clamp is required at each connection. T-Bolt hose clamps are highly recommended.

**UTV-17B FUEL CELL VENT LINES**

The vent line must extend to the highest point of the roll cage nearest the fuel cell, across the width of the vehicle, and down to below the belly pan of the vehicle or 3 inches below the fuel cell, whichever is lower. OPTIONAL PLACEMENT: Where

the vent line attaches to the fuel cell there must be a loop above the fuel cell that extends 6" higher than the top of the fuel cell. then be wrapped one full loop around the outside of the fuel cell near the top of the fuel cell and then 3" below the lowest point of the fuel cell. The breather line must be vented outside of the driver's compartment and be directed away from the engine and exhaust system.

### **UTV-18 FIREWALLS:**

All vehicles suggested have an aluminum or metal firewall separating the driver's compartment from the danger of fire from fuel supplies OEM plastic is acceptable. Any fuel cell placed in the driver compartment must have a firewall that covers the fuel cell, filler neck, and fuel line and completely separates them from the driver's compartment. Any holes placed in the firewall for structure members, lines, etc. must be kept to a minimum. The hole should not have more than 0.0625- inch gap around the items passing through the firewall. Metallic tape may be used to seal a hole between the firewall and the item passing through the firewall. Engine firewall must be metal or aluminum, Complete OEM plastic Tubs accepted.

### **UTV-19 FUEL FILLER SPLASH GUARD:**

The splash guard intends to keep fuel from being splashed on the driver, passenger, exhaust, and engine when the UTV is being refueled. Splash guards must surround the fuel filling area in such a way that it protects fuel from spilling onto the driver, passenger, exhaust, and engine when inserting and removing the fuel filler jug. Minimum of 3"

### **UTV-20 CHASSIS (FRAME), BODY, AND ROOF:**

The OEM "stock chassis" (frame) must be used and stock appearance must be maintained. The stock chassis (frame) is defined as all welded-on tubing and brackets from the top of the door and bed down. **Please contact the BITD UTV Tech Inspector for a better description. If any part of the stock chassis is damaged, you must contact the BITD UTV Tech inspector to get the repairs approved. Any modifications or repairs to the stock chassis (frame) must be approved by the Best in the Desert tech inspector before making any repairs.** The stock chassis (frame) may be added, for durability and strength, but must



retain the stock width, length, configuration, and design. OEM UTV roll cages cannot be used. All joints must be attached to the frame securely.

**BODY:** the OEM plastic body must be kept. Minimal notching for bumpers and roll cage is acceptable this includes Dash and interior Tub.

**ROOF;** The roof must be covered with sheet metal or aluminum. The minimum thickness recommended is .060

### **UTV-21 DOORS, AND WINDOW SAFETY NETS:**

The door area must have an “X”, “A”, “Or V”, Ladder design, or a Rally-style torso and thigh protection bars. Doors may also be operable provided there is above bracing to prevent injury in the case of a side impact, or the doors may be hinged with the interconnecting tubes that need to have a slide bolt 1.5 “by .095 with a minimum overlap of 4” plus bolt must be spring loaded with a locking indent. bracing and all tubing must be a minimum of 1.5"x .095". The door area must be completely covered with aluminum. The minimum thickness recommended is .060.

### **NETS;**

**NOTE ALL WINDOW NETS ARE REQUIRED TO BE SFI-RATED.** Safety nets are mandatory on all vehicles and must cover the complete open area of the cockpit on both sides of the vehicle. The maximum gap allowed between the net and the roll cage tube is 3”. Nets must be installed on the inside of the roll cage to prevent them from being damaged or coming off in the event of a rollover or slide on the side. Nets must be installed so that the occupants can release the netting unassisted and exit the vehicle regardless of the position of the vehicle. Net installation must meet with the approval of the BITD UTV technical inspector. The net border or edge and the net attachment must be made of materials that are as strong or stronger than the net itself. Net attachments must be a minimum of every 6 inches. NON-Acceptable attachments are not limited to the following: hose clamps, snaps, heavy-duty nylon ties, lift-a-dot, and metal hooks. Steel rods are acceptable methods of bottom fastening. **Best In The Desert Racing Association** requires that occupants of all vehicles must be protected during a rollover in such a manner that prevents them from extending from the body or frame of the vehicle.

**UTV-22 SIREN:**

All UTVs are required to have a **SIREN** that is **LOUD**. All sirens must be approved by the BITD UTV tech inspector.

**UTV-22A BREAKDOWN SAFETY DEVICES:**

All UTVs must have a minimum of one red reflective device must be carried in the vehicle. Reflective devices must be at least 12 inches high and 12 inches long and be free-standing (similar to trucker's breakdown triangles). When racing at night, one battery-operated red flashing beacon and two large glow sticks are required.

**Best In The Desert Racing Association** is concerned about race areas; thus, flares will not be permitted as a breakdown device. Official **Best In The Desert Racing Association** stuck stubs are supplied to each entrant at registration. The stuck stub must be kept with the vehicle along with a writing instrument. If a breakdown or out-of-race condition occurs, the stuck stub must be completed and given to another race vehicle to pass on to a race official.

**UTV-23 SEATING:**

All seats must be securely mounted to the frame of the vehicle and be properly reinforced in such a manner as to keep the seat from moving about the frame. Adjustable track-type seats must be securely mounted as to allow no lateral or vertical movement. Head and neck restraints designed and installed to prevent whiplash are mandatory on all vehicles. Restraints must be a headrest constructed of at least 2-inch-thick resilient padding and be approximately 36 square inches in area. All portions of the roll bar or bracing that might come into contact with the vehicle occupant's helmet must be padded.

**UTV-24 TRANSMISSION/GEARBOX:**

Stock OEM transmission cases and clutch must be used. A functional reverse gear is required. The stock front and rear differential must be used. Clutch spring rates are open.

**UTV-25 ROLL CAGE MATERIAL:**

All vehicles in the competition are recommended to be equipped with a roll cage based on seamless mild steel or 4130 chrome moly steel tubing. Roll cage material may be; crew, dom, who, wcr mild carbon steel, or 4130 chrome moly. BITD

HIGHLY RECOMMENDS THE USE OF 4130 CRO MOLY. All welds must be of high quality and craftsmanship with good penetration and with no undercutting of the parent material.

### **UTV 26 ROLL CAGE TUBING SIZE:**

Minimum Tubing Dimension.

UTV weight under 2000lbs OD 1.5" x ID .095"

UTV weight 2001 lbs to 2500 lbs OD 1.5" x ID .120" or OD 1.75" x ID .095"

UTV weight 2501 lbs to 3000 lbs OD 1.75" x ID .095"

To determine tubing size, the UTV weight is a "WET" weight. Wet weight is race UTV with full fuel, spare tires, tools, and drivers.

### **UTV-27 ROLL CAGE DESIGN:**

SEE: SCR:34

**No aluminum or nonferrous materials are allowed to be used in the construction of the roll cage. Minimum tubing material dimension requirements for roll cages apply to this list of required tubes; front vertical hoop "A" Pilar, vertical tube at front of door area "B" pillar, rear vertical hoop "C" Pilar, Torso And Thigh bars, door bracing, top interconnecting bars, rear down braces, diagonal bracing behind drivers head, lower rear interconnecting bar.**

**The front windshield area is not to have open space larger than 30" so all 2-seat cars must run an intrusion bar it may consist of 2- 1"x .095 tubes or a single tube to match the rest of the roll cage.**

**This means that the front vertical hoop, rear vertical hoop, upper door bars, door bracing, top interconnecting bars, rear down braces, diagonal bracing behind the drivers head, and lower rear interconnecting bar must be all made with a minimum 1.5"x.095 if your UTV weights 2000lbs or less and 1.5"x.120 if over 2000lbs**

**UTV-28 BUMPERS:**

All UTV race vehicles must have the rear bumper secured to the frame using a minimum 1.5" outside diameter, and .095" wall thickness. The front must stick out a minimum of 2" past the tires. Rear bumpers must stick past tires a minimum of 4" past the tire and must be between 30" and 40" from the ground. This is a bump area to prevent tire-to-tire contact. Front bumpers should be built to match that height requirement. Bumper ends must be made in such a way as to avoid any sharp edges. Bumpers and nerf bars must be designed in a way to reasonably inhibit two vehicles from becoming locked together. A safe front and rear bumper are required on all vehicles. No hazardous front or rear bumpers, nerf bars, frame heads, or other protruding objects from vehicles are permitted.

**UTV-29 IDENTIFICATION NUMBERS, MARKERS, AND STICKERS:****BACKGROUNDS GREEN WITH BLACK NUMBERS:**

All vehicles in competition must display the official Best in the Desert Racing Association decal on both sides of the vehicle. All vehicles in competition must have identification numbers in the following locations and sizes: Minimum 8" tall with 1"-wide stroke on each **side** of the vehicle in line with the occupants.

Minimum 6" tall with 1"-wide stroke on the **rear** of the vehicle and is visible from the rear. Minimum 4" tall located on the **front** of the vehicle or roof and is visible from the front of the vehicle. Background **GREEN With WHITE NUMBERS**.

All vehicles in competition must be identified with the correct class vehicle numbers and be displayed in the proper locations as described herein. Best In The Desert Racing Association assigns vehicle numbers. Call BITD to get a race number. **All Pro UTV class vehicles must have their specified color numbers and color background.** Numbers must be easy to see and read at race speeds. The number color and background must be approved by the BITD UTV tech inspector.

**ALL NUMBERS MUST BE EASY TO READ. IF THEY ARE NOT, YOU WILL BE REQUIRED TO CHANGE THEM.**

**UTV-30 PIT-SUPPORT VEHICLES:**

All pit-support vehicles will have a minimum of 4-inch-high white numbers (number of vehicles pitting for) on both sides of the vehicle on side windows, on the upper passenger side corner of the front windshield, and the rear window. Some of the BITD races require pit support vehicles to have a Best In The Desert Racing Association pit pass on the dash, in the front windshield of the driver's side. These pit passes are handed out at the race.

**UTV-31 Brakes:**

**Brakes must remain OEM stock aftermarket pads are allowed.**

**IMPORTANT: All rules are tentative and may be changed or updated as the BITD season progresses by the UTV classes. Please contact the BITD UTV class Tech Inspector email at [utvtech@bitd.com](mailto:utvtech@bitd.com) with any questions or for more information on these rules. Please check the website for updates throughout the 2023 season.**