

## **Class GTT Vehicle Preparation Rules for 2019 (Based on Southern Pro Trucks Series Rules)**

### **Tech Rules**

The word "stock" means as originally produced by the manufacturer without altering or modifications. Aftermarket parts must remain the same dimensions, weight, and/or volume as the OEM part

### **General Specifications**

**All trucks competing in this class must meet all SCCA safety requirements for GT category automobiles found in Section 9 of the GCR unless otherwise specified herein. This includes, but is not limited to, GCR requirements for:**

1. Vehicle documentation
2. Driver restraint systems
3. Driver's safety equipment
4. On-board fire systems
5. Fuel & fuel cells (may use either the Touring or GT fuel specs)
6. Master switch requirements
7. Brake and tail light requirements
8. Rollover structures
9. Seats
10. Towing eyes
11. Window safety nets

### **Safety Rules**

1. Drive shaft loop is required
2. All roll bars around driver must be padded with SFI rated high density foam
3. All weight added on truck must be bolted in with minimum ½ bolts, with locking nuts; Minimum of two bolts per 50 lbs. weight. Minimum 5 lbs. blocks.
4. All weights must be painted white and have truck number on them.
5. Ballast weight is not allowed inside the driver compartment.
6. A minimum 4L FIA Approved fire Suppression System with activation within drivers reach is required. Fire extinguishing nozzles will face driver, engine and fuel cell.
7. Use of driver cooling and drink system is permitted

### **1- Chassis**

1. Chassis must remain stock unless otherwise specifically noted in rules.
2. GM Metric frame 1978-1987 will be used, fabricated frames, clips and replacement frames are permitted, provided that tubular replacement pickup points are "Stock".
3. wheelbase will be 108" and be the same measurement on both sides within a ½ inch tolerance
4. Track width 65" front and rear, measures from tire center to tire center. Spacers permitted, no more than 65 inches.
5. Frame may be fabricated from 6" forward of the centerline of the rear axle and from front sway bar forward. Frame can be X"d
6. Cross member must remain stock and in stock location, it may be notched for oil pan clearance only. Must be boxed with 1/8-inch steel.
7. All pick up points must remain stock in stock locations. Front Lower arms and rear trailing arms.
8. Modifications to arms & holes by drilling or lightening is not allowed
9. Roll cages must be built of 1 ¾ ".095 thickness tubing minimum.
10. Cages must be attached properly in at least 8 spots on the chassis.
11. Minimum of 4 door bars on the left side, plated with 1/8-inch steel.

## **2-Suspension**

1. Front suspension components must remain stock, unless otherwise noted in another rule.
2. Front suspension components must remain stock dimensions for the make & model frame
3. Aftermarket non-adjustable upper A-Arms are permitted.
4. Aftermarket hubs & rotors are permitted
5. Springs will mount in stock location. Top of frame may be modified for wedge bolts or spring removal.
6. Shocks must be mounted directly to the lower A arm.
7. Pitman arm and steering arm may be changed, aftermarket center link is permitted.
8. Inner & Outer tie rod are permitted to use heim joints
9. Lower control arms must be stock or stock dimension aftermarket replacement.
10. Stock or screw on style ball joints approved
11. Coil spring rubber inserts are permitted,
12. Leaf springs & torsion bars are not allowed
13. Steel, poly or monoball bushings approved
14. Offset & eccentric bushings are not allowed
15. Sway bars 1 1/2" maximum diameter.
16. Rear sway bars are permitted
17. Only 1 shock per wheel. All shocks must be steel non-adjustable. Adjustable shafts and canisters are not permitted. Schrader valves are permitted
18. Rear shock mount location optional on the rear axle.

## **3-Steering**

1. Stock OEM steering box in stock location. Universal joints, up to three, can be put on steering shaft as well as heim joints. Aftermarket power steering kits or steering quickening kits approved.
2. Power steering pumps must be driven by the crankshaft.
3. Stock HD steel or aluminum aftermarket hubs. Spindle savers are recommended.
4. Adjustable tie-rods are permitted
5. Due to the unavailability of stock rear control arms, steel heim & swedge tubes are permitted. 108"-wheel base up to 1/2 tolerance on one side at a time.

## **4-Body**

1. Approved Series Truck body manufacturers are: ARP, Lightning Lite, Five Star.
2. Approved bodies are: 1997 - 2018 Chevy Silverado, 1997 – 2018 Ford F150, 1997 –2018 Dodge Ram 2018
3. Rear spoiler PN: 049-ALL22980 8"x66" is required with a 25 Degree Minimum angle.
4. Body must be mounted in the center of the frame with wheels in center of wheel wells with 2" tolerance. All body parts must be attached firmly to cage or frame.
5. Body ground clearance is a minimum of 3 inches measured anywhere.
6. The use of Zeus and quick turn fasteners to secure the body permitted
7. All body support brackets must be solid and located inside the body structure.
8. Maximum Nose Width is 81"
9. Holes are permitted in the nose for brake ducts and radiator air box
10. A front wear/rub guard is permitted to be installed on the bottom outside of the nose
11. The use of a front splitter is not allowed
12. Maximum rake for roof is 1"
13. Minimum side window opening must be at least 16"
14. Front and rear windows must be one piece 1/8" Lexan.
15. Front windshield bracing is mandatory, 35-degree angle on windshield with 5-degree tolerance.
16. Both side windows may have 1/8" Lexan vents only, 9" high, 12" length max.
17. Hoods to remain stock with the following changes permitted: An opening of 2.5" x 20" may be cut in the rear of the hood, centered behind air filter, where it meets the base of the windshield, to allow air intake. A 1.5" x 1.5" X 20" heat deflector may also be installed on the fire wall at this opening.
18. Rear Deck lid access door is mandatory & must be able to open for technical inspections.
19. Rear deck lids can be fiberglass, aluminum. Must be flat and flush with quarter panels.
20. Rear bumper cover is mandatory. Must be complete and unmodified. Must have full 90-degree flap on the bottom edge, no cutting.
21. Two aerodynamic pieces of Lexan are allowed to fill the triangular area inside the roll bar exiting the roof, behind the cockpit
22. Rear deck height minimum 36", max 40"

### **5-Interior**

1. Vehicle interior must be complete and shield driver from the ground, engine compartment and fuel cell area.
2. Floors must be steel, and the rest of the compartment can be made from steel or aluminum, but must be fully enclosed and extend from left to right side of truck.
3. Dash panels are permitted and open

### **6-Rear End**

1. Rear differential housing must be stock steel 9" Ford housing.
2. Quick change rear ends are not allowed
3. Brackets for mounting trailing arms must be in stock location with stock mounts on frame side.
4. Rear spring perch must remain on the top of the axle tube.
5. Gear ratio from 3.20-4.59 permitted
6. Custom ground, lightened, or polished ring gears permitted.
7. C Clip eliminators are permitted
8. Any stock fitting differential cover ok.
9. Only stock steel/cast carriers permitted.
10. Solid or gun drilled axles are ok.
11. Use of an internally driven pump for cooling is permitted. Lines to the cooler will be steel braided with AN type fittings
12. Detroit lockers, Limited Slip and Spools are permitted.

### **7-Tires & Wheels**

1. 8"x15" steel wheels with any offset
2. Wide 5 wheels are not allowed
3. Hubs must have 5/8" wheel studs.
4. Slicks and DOT Approved racing tires are permitted
5. Tire soaking is not allowed
6. Tires will be harder than 50 durometer

### **8-Brakes**

1. Aluminum brake calipers permitted
2. Brake calipers will use a single piston and mount to the stock location on spindle without relocation hardware
3. Rear disc brakes are required.
4. The installation of brake ducts on the spindle permitted
5. Rotors must be steel or cast iron
6. Brake rotor hats may be steel or aluminum.

### **9-Transmission**

1. 4-speed or 5-speed non-sequential, OEM & non-OEM manual transmissions permitted
2. Internal clutch-type transmissions are not allowed. Must have external clutch, pressure plate, and flywheel assembly.
3. Must have all forward and reverse gears working. No modifications.
4. H-pattern shifter only.
5. Drive shaft will be Steel or Aluminum only
6. Overdrive or under driven transmissions are not allowed. High gear must be 1 to 1 ratio
7. Straight-cut and dog gear type are permitted
8. The use of an aftermarket bellhousing is permitted

### **10-Clutch**

1. Non-OEM Multiple disc clutches with steel floaters permitted
2. Non-OEM pressure plate, steel flywheel, and throw-out bearings permitted.
3. Clutches must be positive engagement design. Slider or slipper clutch designs are not permitted.
4. Carbon fiber clutches are not allowed

### **11-Engine**

***Engines and heads must meet all the factory specs as the crate motor was delivered from the manufacturer. Engine blocks, heads and intake must have visible, unaltered casting numbers.***

1. GM Performance crate 602 engine: GM part number 19258602 350HP
2. Ford Performance Parts 347 C.I.D. part number: M-6007-S347JR 350HP
3. Dodge Performance MPS 360 Magnum Carb 320HP

### **12-Ignition & Electrical**

1. MSD box with chip capability is required.
2. 6300 RPM chips or less required at all times
3. Crank Triggers & Magnetos are not allowed
4. Single Battery 12-volt system only
5. Battery and connection must be minimum 18" away from fuel cell.

### **13-Carburetor**

1. Maximum 650CFM four barrel, non-EFI
2. Changing of jets, power valve, drilling holes in butterflies permitted.
3. Choke horn may be removed.
4. Venturi area must not be altered or reshaped in any way. The casting ring may not be removed. Must remain as produced by the manufacturer.
5. Base plate must not be altered in any way. All openings must be permanently plugged. May run up to a one-inch open hole spacer
6. Throttle linkages must have two return springs.
7. Additional air may not be picked up below the openings of the Venturi such as altered gaskets, base plate, or holes drilled into the carburetor.

### **14-Air Cleaner**

1. Air box optional
2. A round un-altered air cleaner element with a maximum diameter of fourteen (14) inches with a maximum height of four (4) inches is required. All air must be filtered thru this filter.
3. All air entering airbox must come through 2.5"x20" opening in hood at base of windshield
4. Ram air and forced induction not allowed

### **15-Fuel System**

1. Fuel pump-stock mounted mechanical pump only, brand optional.
2. The fuel cell must be completely enclosed in a magnetic steel container made from no less than 22-gauge magnetic steel.
3. Maximum fuel cell capacity is 22 gallons.
4. Fuel cell must be between frame rails.
5. Fuel Cell will have a check valve installed
6. Fuel cell dry break filling is permitted with maximum 2.5" diameter fill hose
7. Fuel cell minimum ground clearance 7".
8. Fuel cell protection bar mandatory, minimum of 1" .095 thickness tubing. 14. Fuel cell must have minimum of 2 straps, 1" wide surrounding entire fuel cell.
9. Fuel cooling / altering devices are not allowed – Fuel will go straight from cell to carburetor with a permitted provision for an in-line fuel filter
10. Maximum fuel octane is 98
11. Fuel additives are not allowed
12. Electric fuel pumps are not allowed

### **16-Cooling & Oiling System**

1. Stock type replacement water pump, no electric.
2. Any size aluminum radiator with electric fan is permitted. Must have catch can mounted in front of firewall with overflow hose directed toward corner of windshield.
3. Water wetter is permitted. The use of anti-freeze is not allowed
4. Engine oiling system will be a wet sump system, remote filters and baffled oil pan are permitted.
5. Two-stage or belt driven oil pumps are not allowed.
6. Engine oil coolers with fans are permitted. All cooling lines must be steel braided with AN type fittings.

### **17-Exhaust**

1. Headers are free
2. Exhaust equalizer "H" and "X" pipes are permitted.
3. Exhaust boost tubes are permitted
4. Exhaust system must exit flush to the vehicle and cannot extend past the body.
5. Exhaust system must exit past the midpoint of the cockpit
6. Stepped headers permitted.

### **18-Engine location**

1. Must be centered between frame rails, 1" tolerance. 2. Crankshaft height is 12" from center of the crank to the ground.
2. Engine placement is measured from the spark plug closest to the radiator. Centerline is an imaginary line projected 4 inches forward of the center of left and right upper A arm ball joint

### **19-Minimum Weight Post-Race**

1. Ford 347 CID 350HP– 2,950 pounds
2. Chevy Crate 602 350HP- 2,850 pounds
3. Dodge MPS 360 320HP – 2,800 pounds