

# TORC SERIES

## COMPETITION RULES FOR

### SPORTSMAN STOCK TRUCK

*Defined As-* A two-wheel drive standard size pickup. The truck must be of stock production that has been produced in quantities of at least 5,000 for a one year period and available for purchase by the general public in the USA. This is a production class and must maintain the engine, body and frame combination for a specified production year. All components must remain stock unless modifications are allowed by this rulebook. Division rules supersede CCR. Race Numbers are 800 to 899.

~~Vehicle must be 15 years old or newer. All trucks older than 15 years will be "grandfathered" as long as it is raced at least once each season and is kept in good condition. All new built trucks must be no older than 15 years.~~ **All trucks, regardless of year built, must be properly constructed and maintained in presentable condition.** It is the responsibility of the driver to carry a factory shop manual that matches the race vehicle.

#### 1. CHASSIS

##### **Required:**

Factory installed chassis and body must be maintained for year specified.

##### **Allowed:**

- A. Strengthening of chassis and frame by adding material.
- B. Stock wheel base -plus or minus one inch.
- C. Shortening of long wheelbase frame to match short wheelbase specs allowed. Must have TORC Series Tech approval.

##### **Not Allowed:**

Removal of any cross members or any other materials.

#### 2. FRONT AND REAR SUSPENSION

##### **Required:**

- A. Stock suspension parts and locations must be maintained as delivered.
- B. Track width must be in stock. Measurement will be determined from the factory manual.
- C. Pivot points must remain stock and in stock locations.
- D. Travel limit in the front and rear -12 inches measured metal stop to metal stop with out anything in between.

##### **Allowed:**

- A. Stock spindles or replacement spindles with 3/4 or 1-ton components only.
- B. Stock lower a-arm. Any manufacture upper A-Arm.
- C. Any manufactured ball joint.
- D. Steel springs of any rating, any manufacture. Stock length only.
- E. Replacing all/any rubber mounts with poly or other material.
- F. Two single point anti-wrap up bars attached on the differential.
- G. Stock sway bars only.
- H. Using of larger stud or bolts.
- I. Rubber/poly bump stops.
- J. Reinforcing of parts with additional material but no modifications to the part.

**Not Allowed:**

- A. Quarter elliptical springs.
- B. Shackles lengthen or moved from stock locations.
- C. Composite and/or fiberglass springs.
- D. Air bump shocks/stops.

**3. STEERING**

**Allowed:**

- A. ~~Only stock steering box as original from the particular chassis.~~ **Any OEM steering box may be used providing it is mounted in approximately the same location as stock and the pitman arm location does not change significantly.** Internal modifications are allowed.
- B. Tie rods, tie rod ends, and any ball and socket type. All other steering must remain stock but can be reinforced.
- C. Any steering wheel but must remain within three inches of the stock location fore and aft.
- D. Stock steering pump internal modifications.
- E. Steering pump and reservoir of any manufacturer but must be belt driven.
- F. Steering Quickners.
- G. Chassis that originally have rack and pinion steering may use an aftermarket rack mounted in the approximate stock location. Must have TORC Series Tech approval.

**Not Allowed:**

Changing of the original concept or location.

**4. SHOCKS**

**Allowed:**

- A. Any number of two inch shocks can be used.
- B. Floating pistons and remote reservoirs.
- C. Shocks larger than 2 inch may be used but limited to a total of one shock per wheel. If a shock larger than 2 inch is used no other shock is allowed on that corner.

**Not Allowed:**

- A. Custom made shocks. All shocks must be available from normal retail sources.
- B. Shocks larger than 3 inch.
- C. External **or internal** bypass shocks.
- D. Shocks may not protrude through the hood or fenders.
- E. Remote or cantilever shocks.
- F. Air shocks.

**5. WEIGHT**

Minimum 4,150 lbs. at race end with driver.

**6. BRAKES**

Stock brake equipment only. No anti-lock systems, electrical or mechanical.

**Allowed:**

- A. Any brake pads or brake shoe material.
- B. Any master cylinder or wheel cylinders as long as it bolts in place of the stock one.
- C. Any proportioning valve.
- D. Braided lines.
- E. Rear disc brakes, steel rotors and calipers only.

**Not Allowed:**

Steering brakes.

## 7. BODY

Updating and pre-dating will be allowed where stock fitment is allowed but limited to body components that can be bolted on to change the model year's appearance i.e. 95 front clip on an 84 Chevrolet cab.

**Stock body lines must be maintained and changes completed in a professional manor.** It is the owner and drivers responsibility to have a specifications and option list for vehicle!

### **Required:**

- A. Stock mounts in original positions.
- B. Original size, shape, configuration and appearance.
- C. Stock grill assembly and/or after-market exact duplicate for the body/chassis year.
- D. Doors, hoods and fenders must be in the factory original stock location.
- E. Heater core hoses must be disconnected.

### **Allowed:**

- A. Stock mounts may be replaced with any material.
- B. Outer box sides may be bolted to the inner bed panels.
- C. Removal of the heater, air conditioning system, windshield wiper motor and linkage along with any excess wiring.
- D. Removal of the tailgate.
- E. General body bracing by additional material.
- F. **OEM cab floor and firewall must match frame and be mounted in stock location. The remainder of the OEM cab is not required.**

### **Not Allowed:**

- A. Windshields or any other stock glass.
- B. Shocks, radiators, transmission coolers, air filters and scopes protruding through the hood.

## 8. INTERIOR

### **Required:**

Removal of all upholstery, upholstery panels, headliners, carpets, plastic interior parts.

### **Allowed:**

- A. Dash optional.
- B. The pedal assemblies must remain in the approximate stock location.

### **Not Allowed:**

Modifications of the interior panels except for installation of the interior cage construction.

## 9. SEATS

Any manufacturer allowed. Must stay in approximate factory stock locations.

## 10. FLOOR BOARDS

### **Required:**

- A. **OEM cab floor must match frame and be mounted in stock location.**

### **Allowed:**

- A. Repair of rust with equal thickness metal.
- B. **A minimum amount of trimming will be allowed**

### **Not Allowed:**

- A. Any modifications or alterations.
- B. Excessive trimming or material removal not allowed on any body component.

## 11. FIREWALL

### **Required:**

- A. **OEM firewall must match frame and be mounted in stock location.**

### **Allowed:**

- A. Repair of rust with equal thickness metal.
- B. The only modifications allowed will be for the proper installation of the cage construction.
- C. **A minimum amount of trimming will be allowed**

**Not Allowed:**

Any alterations.

**12. HOOD**

- A. Hoods and fenders must be in the factory original stock location.
- B. Any material outer panel allowed but must be exact duplicate of OEM panel.
- C. Complete removal of the hood latches.
- D. Hood pins are mandatory.

**13. DOORS**

**Required:**

Three horizontal bars of properly sized tubing, tied to the cage on each side.

**Allowed:**

- A. Stock location ---non-operating, securely mounted!
- B. Removal of the window, window regulator hardware parts/pieces.
- C. OEM or exact duplicate outer panel of any material allowed.
- D. If anything other than steel panels are used the plating of the left door bars will be required. .075 aluminum or [16] gauge steel must be used.

**14. FENDERS**

**Allowed:**

- A. Enlargement of wheel openings for tire clearance with 3 inch cut out and 2 inch flare.
- B. Use of hoop for mounting fenders and radiator.
- C. Outer box sides may be of any material but must be the exact duplicate of the OEM panels.
- D. Inner box is optional.
- E. Front fenders may be of any material but must be the exact duplicate of the OEM panel.
- F. Inner front fender reinforcement may be removed.

**15. HEADLIGHTS**

**Required:**

- A. Head light openings must be covered with flat material.
- B. No glass allowed.

**16. RADIATOR, COOLING SYSTEM**

**Allowed:**

- A. ~~Only one radiator.~~
- B. Can be mounted in any location.
- C. OEM or direct replacement water pump only.
- D. Auxiliary water tanks used for cooling of no more than 5 gallons.

**17. FUEL CELLS**

MANDATORY - CCR RULES APPLY - Paragraph 28

Cutting of the box floor to place the fuel cell is allowed. Removal of cross member is allowed.

**18. ENGINE**

"Stock" means the part or assembly in its "as cast" configuration as delivered and used on U.S. model without modifications. All casting and/or part numbers must be visible.

**Allowed:**

- A. Engine must be in stock location on stock mounts for a V-8.
- B. One engine movement limiter-cable, chain etc.
- C. Strengthening of the motor mount brackets by additional material only.
- D. Motors other than those listed may be used once approved by TORC Series Tech.

**Not Allowed:**

- A. Any modification not specifically listed.
- B. Mounting plates.

**19. BLOCK AND CRANKSHAFT**

Approved standard OEM, as cast iron production block. Blocks approved by TORC Series are:

GM 350, Mopar.360 Ford 351 Windsor.

- A. Stock cast or forged steel crankshaft or OEM aftermarket replacement only.
- B. Rod journal grind is open but all the following engine rules must be adhered to.

**Required:**

- A. 3/4 inch inspection hole in the side of the oil pan, in line with crankshaft journal and crankshaft casting number.
- B. Stock block deck height within .020 of specification.
- C. Maximum 370 cubic inch displacement.
- D. Engines must be able to be sealed once they are pumped. One head bolt, one intake manifold bolt, one oil pan bolt on each side of the oil pan must be drilled to allow sealing.

**Allowed:**

- A. Blue printing and balancing.
- B. Using studs rather than bolts.
- C. Oil pan windage trays.
- D. High volume or pressure oil pump.
- E. Auxiliary engine oil cooler.
- F. Fan for oil cooler.
- G. Remote oil filters.
- H. Harmonic balancer open, any manufacturer. **Must be SFI 18.1 approved**

**Not Allowed:**

- A. Any kind of modification specification not listed above.
- B. Crankshafts that have been knife edged or lightened.
- C. Dry sumps **or external wet sump pumps** are not allowed.

**20. CYLINDER HEADS AND VALVES**

- A. Standard production, as cast, iron heads that matches the block with the casting numbers clearly visible.
- B. GM may use any OEM production head with a maximum intake valve diameter of 1.94, maximum exhaust valve diameter of 1.60. No angle plug or bowtie heads allowed.
- C. Chrysler may use any OEM production head including the magnum head part # P5007086. W-2 heads not allowed. Maximum intake valve diameter of 1.88, maximum exhaust valve diameter of 1.60.
- D. Ford may use any OEM production head, GT40, GT40P or World Products Roush 180 part No. 5303, Maximum intake valve diameter of 1.94, and maximum exhaust valve diameter of 1.60.

**Allowed:**

- A. After market valve springs provided the stock outside dimension is retained.
- B. Three angle valve jobs.
- C. Single 45 degree cut on the valve face.
- D. Valve guide material unlimited.
- E. Stainless steel valves.
- F. Screw in studs and guide plates.
- G. One breather per valve cover.
- H. Machining of head to accommodate valve size listed above.

**Not Allowed:**

- A. Any modifications of the cylinder head not specifically listed above.

B. Angle milling/cutting of the block or cylinder heads.

C. Bowl cutting.

D. Titanium or composite valves.

## 21. PISTONS AND CONNECTING RODS

### Allowed:

A. Flat top or dished, stock or OEM replacement piston only. Cast or forged pistons.

B. Steel rods with stock dimensions only: gm-5.791, Mopar-6.123, And Ford-5954.

C. Removal of casting flash from connecting rod, shot peen of connecting rod.

### Not Allowed:

A. Any modifications not specifically listed above.

B. Titanium, stainless, aluminum, H beam etc rods.

C. No domed or notched pistons.

D. Piston must remain at or below deck height at TDC.

## 22. CAM AND LIFTERS

Stock type cast flat tappet camshafts with a maximum valve lift as measured at the valve of .500.

Stock lifter bore size.

### Allowed:

A. Other cam grind specifications are unrestricted.

B. Full roller rockers, stud mount only.

C. After market direct replacement timing chain and gears.

### Not Allowed:

A. Any modifications not specifically listed above.

B. Roller mushroom type lifers.

C. Gear or belt drive.

D. Shaft type rocker unless OEM.

## 23. INTAKE MANIFOLD

### Allowed:

A. As cast-Edelbrock intake: part number, GM 5001 or 2716, Mopar 5076, Ford 5081.

B. Match porting by the removal of material only, within the last ½ inch of the runner only.

C. Addition of return water port in rear of intake manifold allowed, but must be approved by TORC Series Tech.

D. Machining of intake to match Vortec head.

E. Standard design gaskets only.

F. Drilling of head to install intake allowed, must be approved by TORC Series Tech.

### Not Allowed:

A. Any other modification not specifically listed above.

B. No devices between the carburetor and the intake manifold, designed to increase or redirect airflow will be allowed.

## 24. CARBURETOR

### Required:

A. One two-barrel model number 0-4412 and one combination restrictor plate/spacer assembly with two 1.375 bores. Must be used with standard size gaskets only. This unit is available though TORC Series tech only!

B. Fuel pump- mechanical only in the stock location

### Allowed:

Removal of choke plate.

**Not Allowed:**

- A. Any modification in/to the throttle bore.
- B. Any modification to the TORC Series restrictor plate.

25. *EXHAUST*

**Allowed:**

Stock, as cast, exhaust manifolds or down and under headers with a maximum tube size of 1.750 inches.

**Not Allowed:**

- A. Headers without collectors.
- B. Custom built headers.
- C. Exhaust system running through the driver's compartment.

26. *IGNITION SYSTEMS*

**Allowed:**

- A. Stock type single point or HEI ignition system.
- B. Spark must be activated through the distributor.
- C. Any control box.
- D. Any coil.
- E. OEM or direct replacement alternator only.

**Not Allowed:**

Magnetos, direct fire coil ignition systems.

27. *BREATHERS AND AIR FILTERS*

**Allowed:**

- A. Air filters and breathers of any material or size.
- B. Must fit under stock hood without modification to the hood.

28. *TRANSMISSION/DRIVESHAFTS*

**Required:**

Three speed automatic transmission only. Transmission must be from same engine manufacturer.

**Allowed:**

- A. Any internal modification.
- B. Any gears.
- C. Any conventional vane type converter non- electrical.
- D. Transmission cooler ~~may~~ **must** be mounted in a safe location.
- E. A 360 degree solid steel bracket, no less than 2 inches wide and ¼ inch thick, must be placed around each drive shaft. SEE CCR Paragraph 31.

29. *DIFFERENTIAL*

**Allowed:**

- A. Any automotive or light truck production housing and third member for rear axle assembly.
- B. Any gear ratio.
- C. Any axles including after market floater axles.
- D. Rear differential must be spool type only.

**Not Allowed:**

- A. Knock off hubs.
- B. Quick-change rear ends.
- C. Aluminum housings.

30. *TIRES AND WHEELS*

**Allowed:**

- A. D.O.T. only, available to the general public. See CCR 33.
- B. Maximum tire size of 33 x 12.50 or approximate metric equivalent. Tire must be 33 inches or less at the end of race with 30 pounds of air pressure.
- C. Wheel maximum width is 8 ½ inches.
- D. Any steel wheel or one piece cast aluminum wheel.
- E. Maximum wheel size is 16 inches.
- F. Bead lock wheels.

**Not Allowed:**

- A. Bead liners and inner liners.
- B. Spun aluminum or magnesium.
- C. Three piece wheels.

*31. RADIOS*

Frequency must be registered with TORC Series.

**All trucks must be equipped with a two-way radio and a spotter**

Refer to COMBINED CLASS RULES (CCR), paragraph 37.

*ALL CCR APPLY AS SET FORTH IN THIS TORC SERIES RULEBOOK.*