

# TORC SERIES

## COMPETITION RULES FOR

### SPORTSMAN ENDURO TRUCKS

*DEFINED AS* A two wheel drive pickup truck with a 3 /4 ton or smaller chassis manufactured in quantities of at least 5,000 units of same model per year and available for sale in the United States. This is a stock class as defined by original equipment parts (OEM) and replacement parts made to OEM specifications only. Stock also includes options sold on the truck from the same make and model of the truck. All trucks must have an original cargo type bed. Race Numbers are 500 to 599

**Allowed: 4x4 pickups with the front drive shaft, transfer case and front differential removed. This rule will be re-addressed after the 2010 season.**

#### 1. CHASSIS

- A. Chassis must remain stock but may be reinforced by adding material.
- B. Shortening of a long wheelbase frame to match short wheelbase specs is allowed.
- C. The wheelbase must be stock measurement (+) or (-) 2".

#### 2. FRONT & REAR SUSPENSION

##### **Required**

- A. Stock suspension parts and locations must be maintained as delivered.
- B. Track width must be in stock.
- C. Pivot points must remain stock and in stock locations.
- D. Front and rear wheel travel limit is 12 inches measured to metal stop. Front wheel travel will be measured at the spindle.

##### **Allowed:**

- A. Any manufacturer ball joint.
- B. Rubber / poly bump stops but must be removed to measure wheel travel.
- C. Any non take-apart shock, or:

Fox Shox.....7700 Series  
Fox Shox.....2.0 series emulsion  
Bilstein.....B46 – 1300 Series  
Rancho.....RS5000 and RS9000 Series  
Doetsch Tech.....MY Series, M2, M2R  
Trail Master.....N7, SS, SSY Series

Any other take-apart shock that has written approval from the TORC Series tech director.

- D. Maximum of two shocks per corner.

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

- A. Quarter elliptical springs.
- B. Shackles lengthened or moved from stock locations.
- C. Composite or fiberglass springs.
- D. Air bump shocks / stops.
- E. Any shock or part of suspension protruding through the hood or fenders.
- F. Remote reservoirs.
- G. Take apart shocks except those described above.
- H. Custom made shocks.
- I. Shocks in the driver compartment.
- J. Coil over shocks.
- K. Remote and / or cantilever shocks.

- L. Any kind of air shock.
- M. Position sensitive shocks.
- N. Shafts larger than 5/8".

### 3. *STEERING*

- A. Steering must be in stock location and components in safe working order.
- B. Steering quickners are allowed

### 4. *BRAKES*

- A. Disc brakes are allowed front and rear but must use steel rotors and calipers.
- B. Proportioning valves are allowed.

### 5. *WEIGHT*

- A. Trucks originally manufactured as less than 1/2 ton chassis style by manufacturers and using a V6 engine; (mini and mid-size trucks) must weigh a minimum of 3,500 pounds.
- B. All full or mini/mid-sized trucks using a V8 engine must weigh a minimum of 4,000 pounds.

### 6. *BODY & FENDERS*

- A. Body and fenders must remain stock, absolutely no bending or flaring, especially to fenders or wheel openings.
- B. Rear wheel wells, firewalls and floorboards must be repaired for rust as well as all other damage.
- C. The truck box must be complete with no cutting of any bed material or fender wells except to allow room for the safe operation of shocks.
- D. Front fender wells may be removed.

### 7. *BUMPERS*

Refer to the CCR paragraph 13. BUMPERS.

### 8. *FUEL CELLS*

MANDATORY - CCR RULES APPLY

### 9. *ENGINE*

Stock cast iron components and parts only

- A. Engine blocks accepted are GM 350, Mopar 360, & Ford 351 Windsor or smaller.
- B. The engine must be in stock position and have stock components such as fan and alternator. The block may be drilled for oil or temperature sending units.
- C. Factory street production head with factory cast marking only
- D. Any oil pan is allowed.

#### **Not Allowed:**

- A. Engine oil coolers
- B. Aluminum blocks and/or cylinder heads even if they were available as an option.
- C. External or internal modifications and/or grinding to heads.
- D. GT40, "Bowtie", turbo or angle plug heads even if they were offered as an option.
- E. Interchanging heads from other similar motors, 305 to 350 or 289 to 351, etc.

### 10. *CAMSHAFT AND LIFTERS*

#### **Allowed:**

- A. Stock type cast flat tappet camshafts with a maximum valve lift as measured at the valve of .500.
- B. Stock lifter bore size.
- C. Full roller rockers, stud mounted only.
- D. After market direct replacement timing chain and gears.

#### **Not Allowed:**

- A. Any modifications not specifically listed above.
- B. Roller mushroom type lifters.
- C. Gear or belt drive.
- D. Shaft type rocker, unless OEM.

**11. CARBURETOR, IGNITION, COOLING AND TRANSMISSION**

- A. Holly two barrel #0-4412 only. No modifications to the throttle plates or bore.
- B. No fuel injection even if vehicle had factory fuel injection.
- C. If an adapter is used the maximum height of the adapter is 1"
- D. Any cast iron OEM intake manifold allowed or  
Edelbrock part numbers, GM 5001,  
Mopar 5076, Ford 5081.
- E. Match porting within the last ½ inch of the runner is allowed.
- F. Stock exhaust manifolds only.
- G. Mechanical OEM fuel pumps in stock location **only**.
- H. Electric fuel pumps are not allowed.

**12. EXHAUST**

- A. All Enduros must use two 1 ½" O.D. x 24" "restrictor pipe" exhaust pipes (~~or 1 ¾" O.D. x 24" if single pipe is used~~) measured from weld to weld or weld to end.
- B. Exhaust must run under the body and the restrictor pipe must be welded and clamped securely in place. **Loss of restrictor pipe during competition could warrant a penalty.**
- C. The exact location of restrictor pipe is up to the vehicle owner, but all joints from the restrictor pipe to the manifold must be welded and clamped and will be scrutinized during the safety inspection.
- D. **Aftermarket headers are not allowed.**

**13. IGNITION**

The ignition must be OEM stock or equal in power output. Aftermarket plug wires allowed.

**14. COOLING SYSTEM**

- A. Any radiator allowed but must be mounted in stock location.
- B. Core support may be removed and engine compartment can be caged in.

**15. TRANSMISSION and DRIVE LINE**

- A. The transmission must be from the same engine manufacturer. Internal modifications are allowed.
- B. Any conventional vane type non-electric torque converter is allowed.
- C. Transmission coolers are allowed and may be mounted in the box as long as top of the cooler is below the top of the box sides.
- D. The rear drive and axles must remain stock.
- E. Any OEM rear end is allowed; need not be from the same manufacturer.
- F. **Anti wrap up bars are not allowed.**
- G. Spools are allowed. A rear axle truss may be added to the rear axle housing.

**16. TIRES & WHEELS**

**Allowed:**

- A. Maximum tire size of 33 x 12.5 or approximate metric equivalent.
- B. D.O.T. only and available to the general public.
- C. Wheel maximum width is 8 1/2 inches.
- D. Any steel wheel or one piece cast aluminum wheel.
- E. Maximum wheel size is 16 inches.

**Not Allowed:**

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

**17. RADIOS**

Frequency must be registered with TORC Series.

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

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