

# TORC SERIES

## COMPETITION RULES FOR

### PRO 4X4 TRUCK

*DEFINED AS-* Vehicles built or manufactured as a full size four wheel driven type utility vehicle, capable of being driven through the front wheels. Vehicle must be a standard manufacturer production model available to the general public in the United States, produced in amounts of a minimum of 5,000. Manufacturer body styles, engines and chassis must all be from same manufacturer. PRO 4X4 is considered an open production division regulated only by Division, CCR and Safety Rules. Division rules supersede CCR.

#### 1. CHASSIS

- A. Maximum wheelbase 122 inches. Minimum wheelbase is 113 inches.
- B. Maximum overall width 93 inches, outside of tire to outside of tire, as measured from ride height of 10 inches. Width is measured as vehicle passes over ride height blocks.
- C. Truck wheelbase and tracking width will be measured with all tires inflated to 20 PSI in outer tire.

#### 2. SUSPENSION

- A. Spindles may be reinforced or manufactured and must retain the same basic design and concept as originally mounted as produced.
- B. No limits or restrictions on ball joints, spring rate capacities or pivot point bushings.
- C. Front wheel maximum wheel travel limits 18 inches.
- D. Rear wheel maximum wheel travel limits 20 inches.
- E. All four corners must be coil over suspension.

#### 3. RIDE HEIGHT OF TRUCK

- A. 10 inches measured as vehicle drives over 10 inch ride height blocks.
- B. Truck may be measured for ride height before and after competition.
- C. Trucks will be measured with all tires inflated to 20 PSI pressure in outer tire.

#### 4. TRUCK WEIGHT

- A. Vehicle weight is set according to the following formula:
  - 2 valves per cylinder and using a carburetor must weigh 10lbs./cubic inch.
  - ~~2 valves per cylinder and using TORC Series approved fuel injection must weigh 10.5lbs./cu. in.~~
  - 3 or more valves per cylinder and using a carburetor must weigh 11.5lbs./cubic inch.
  - ~~3 or more valves per cylinder and using TORC Series approved fuel injection must weigh 11.75lbs./cubic inch.~~
- ~~B. For those trucks using electronic fuel injection, please refer to CCR.~~
- C. Trucks may be weighed pre and post race, and must weigh a minimum of 4,000 lbs. with driver at race end.
- D. Weight is subject to change in interest of competition.
- E. Minimum front axle weight is 48% of total truck weight at race end.
- F. All trucks must meet minimum weight and front percentage both pre and post race.

#### 5. TRUCK BODY

- A. All fender and box side mounts must be a looped design only. Box sides must be full length including the taillight wrap around.
- B. Maximum body width 80 inches as measured between pillar A and pillar B.
- C. Fenders may be flared to outside of the tire.

## 6. ENGINE

- A. OEM design, steel or aluminum.
- B. Block must be available to the general public at a price competitive with other manufacturers. ~~and had been made in quantities of at least 1,000.~~
- C. Maximum of 8 cylinders.

## 7. CARBURETOR

- A. One four-barrel carburetor is permitted.

## ~~8. FUEL INJECTION~~

- ~~A. For those trucks using electronic fuel injection, please refer to CCR.~~

## 9. DRIVE PARTS

- A. Engine to transmission adapter plate can be a maximum of ½ inch thick.
- B. Auxiliary under drive and overdrive units are permitted.
- C. Engine crankshaft must be connected to the transmission input shaft via a conventional clutch assembly or vane type torque converter.
- D. Drive train must be in stock order, engine, transmission, transfer case, differential via a drive shaft, engine must be in front of truck.
- E. Rear differential must be spool type only, an approved by TORC Series Technical Director.
- F. Rear differential must have a minimum of 1 ½ inch inspection bung or plate placed in such a manner that TORC Series Tech can see and identify spool. If inspection area does not exist, crew chief will remove differential for TORC Series Tech inspection.
- G. Independent rear suspension not allowed.

## 10. TRANSMISSION

- A. Automatic transmissions must operate through a conventional torque converter.
- B. Manual shifting of all transmissions is mandatory, unless other method need be employed for handicap condition of driver. TORC Series technical director must approve all non-manual shifting procedures.
- C. Auxiliary under drive or over drive units may be shifted electronically, but only by manually operated switch.

## 11. TIRES

Refer to COMBINED CLASS RULES (CCR), paragraph 33.

## 12. WHEELS

- A. Maximum wheel size is 10.0"x 15.0", 10.0"x 16.0" or 9.0"x17.0"
- B. Minimum backspacing for all wheels will be 3.75".
- C. All wheels must be in excellent condition free from cracks and defects that could cause wheel failure.
- D. All bead lock rings must have recessed bolts.

## 13. RADIOS

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