

# **MORE General Competition Rules and Regulations**

These regulations apply to all classes unless otherwise noted in supplementary regulations. Unless the class requirement or safety regulations specifically state that a modification or optional equipment is permitted, it will not be allowed. **MORE's** intent when prescribing specifications for safety equipment for vehicles that will compete under **MORE** rules is to provide adequate protection to all entrants and spectators. **MORE** does wish to encourage all entrants to give full attention to safety requirements. When operating a vehicle on the race course, at any time, including warm-ups and testing, entrants must wear an approved helmet, protective clothing, eye protection, and safety equipment. All body components and nets must be properly secured during such operations.

## **SAFETY EQUIPMENT**

### **Helmets**

Helmets must be of approved by one of the following; **SA2010 DOT** / ECE 22-05 / BSI sticker attached. Straps must have D-ring fasteners only. No snaps or Velcro will be permitted. The interior and exterior areas of the helmet must be free of defects (i.e., the padding must be in good condition and the exterior of the helmet must not be damaged).

### **Head and neck restraints**

**MORE approved Sfi 38.1 head and neck restraints are mandatory** and must be worn by all occupants competing in a **MORE** event and will be checked at tech.

### **Protective Clothing**

Fire suits are mandatory. They must cover from the neck to the ankles.

**One piece suits only!!!** Also, the suits cannot have any holes at all.

- Minimum Sfi 3.2a/5 rating is required effective March 2019.
- Sfi 3.3 undergarments, gloves, and shoes are highly recommended

### **Eye Protection**

Shatter resistant eye protection is required for all occupants competing in a **MORE** event.

Those with a windshield must have eye protection available in the event the windshield is knocked out or broken. It is highly recommended that entrants with removable dentures remove them prior to the race

### **First Aid Kit**

A first aid kit must be carried in each vehicle at all times and must contain at least the following items:

- 1 – 4” bandage compress
- 2 – 2” bandage compress
- 1 – triangular bandage
- 8 – 2” x 3 adhesive pads
- 16 – 1” x 3.375 adhesive pads
- 10 – prep pads
- 1 – eye dressing packet
- 10 – ammonia inhalants
- 1 – ace bandage

### **Safety Triangle**

All vehicles must carry a reflective triangle.

### **Horns**

All vehicles must have a loud sounding horn.

### **Fire Extinguisher**

Each vehicle must carry **(2)** portable UL approved 2.5 pound ABC rated dry chemical type or HALON fire extinguisher with a gauge. It must be fully charged and easily accessible. On board fire suppression systems are highly recommended. They should have three nozzles located in each of the following areas: driver compartment, fuel compartment, engine compartment. **(1) 2.5 pound extinguisher will be mounted inside the vehicle and (1) 2.5 pound extinguisher will be mounted on the outside of the vehicle that is easily accessible from the outside of the vehicle. Must use a quick type mount.**

### **Survival Supplies**

All vehicles must carry at least two days of survival supplies and one quart of water per person in vehicle. Long course events only.

### **Wheels and Tires**

Snap-on hub caps or wheel covers of any type are not allowed on any type of vehicle during competition. Tires will be visually checked for condition and must be considered safe by **MORE** prior to competing. Maximum tire size is 40" outside diameter. No multiple tires are allowed

### **Fasteners**

All nuts, bolts and component parts on each vehicles suspension system, chassis and running gear must be secured with S.A.E. grade 8 or better nuts, bolts and secured with either lock nuts, lock washers, cotter pins or safety wire and have at least one full thread showing through the nut.

## **STEERING AND BRAKE COMPONENTS**

### **Steering**

Steering wheel play must be kept to a minimum. Drag link and tie rod ends must be secured and have a cotter pin in each one or lock nut.

### **Brakes**

Brakes must be in a safe working condition and able to apply adequate force to lock up all four tires. Turning or steering brakes are allowed.

## **ELECTRICAL SYSTEM**

### **Ignition**

Each vehicle must have a positive action on-off switch in good working order. The switch must be located within easy reach of the driver and labeled "Ignition Switch" on – off.

### **Battery**

Batteries must be securely mounted with metal to metal tie downs. All wet cell batteries must be

full enclosed including the sides and bottom. Batteries that are not covered but located in the driver's compartment are not acceptable. Batteries will be considered in the driver's compartment if there is no fire wall between it and the driver.

### **Lights**

All vehicles must have a minimum of two headlights, two brake lights, and two tail lights. Tail lights must be mounted at least 36" from the ground and be 3" in diameter. All lights must be on and working for the entire race, except headlights for day races. All vehicles must have an amber light facing the rear and hooked up to the ignition switch. This must be a fog type light with a minimum of 25 watts and a maximum of 55 watts. LED lights are ok as long as they are the proper size. LED lights must be at least 6 square inches.

All vehicles in Classes 5-1600, 9, 13, 15, 1450, 18, 3000 and Stock Bug must run a **4 sq inch Green light** along with the amber light facing the rear of the vehicle.

The **Green Light** is to identify the slower moving vehicles. This is to assist the faster moving classes to recognize a slower moving vehicle when they are approaching them.

### **Starters**

All vehicles must have a starter capable of turning over the engine.

## **FUEL SYSTEM**

### **Fuel**

Any of the following commercially available gasoline, LPG, or diesel fuels may be used:

- (A) Service station type pump fuel
- (B) Racing gasoline as manufactured
- (C) Commercial aviation gas
- (D) Natural or propane gas

No alcohol or nitro methane is allowed. Fuel additives may be used.

### **Fuel Tanks**

Fuel cells are mandatory in all classes. All fuel cells must be securely mounted. Filled from and vented to the outside of the vehicle. No G.I. cans are allowed. Safety fuel cell shall consist of a bladder enclosed in a smooth skinned container. All fittings shall be built into the skin of the cell and bonded as an integral part of the tank. The bladder shall be fully enclosed in a smooth skinned casing. The container shall be made of 20 ga. steel, .060 aluminum or .125 marlex. The container must be securely fastened to the frame or floor with bolts and/or steel straps.

### **Fuel Lines, Vents and Caps**

Fuel filler lines and caps must be mounted in a location where they cannot be knocked open or off during a race. Fuel breather must have a check valve and it must be routed up to top of roll cage then over to the opposite side of the roll cage then down to the floor and out the bottom. All fuel fillers must be surrounded at the outer extremity with a splash shield. A body panel is acceptable as a splash shield. **All fuel lines breather lines and filler lines must have hose clamps.**

## **ENGINES, TRANSMISSIONS, DRIVELINES**

### **Throttles**

Each vehicle must have a foot throttle with two return springs attached to the carburetor throttle arm. A stop or override system must be used to keep linkage from passing over center and sticking in an open position

### **Exhaust**

Each vehicle regardless of class must have a forestry approved spark arrestor or muffler is acceptable.

### **Drive Shafts**

All front engine vehicles that have an open driveshaft must have a retainer hoop securely mounted and located within 6" of the front universal joint

### **Flywheel Shields**

All front engine vehicles with standard transmissions and solid lifters must have a sema-approved bell housing or cover

### **Fluid Coolers**

Oil coolers, transmission coolers and radiators mounted ahead of the driver's compartment must have a shroud behind the cooler to prevent fluid from leaking back to the engine compartment

### **Auxiliary Equipment**

A generator, alternator, fan, water pump and a complete functional electrical system must be hooked up and working at all times

## **VEHICLE SAFETY EQUIPMENT**

### **Roll Cages**

All vehicles in competition must be equipped with a roll cage. Minimum design and tubing size based on **seamless mild steel** or **4130 chromoly** for roll cage structures are as follows:

#### Vehicle weight

Up to 2000 lbs. CDS/DOM	1.5" x .095" CDN/4130/seamless	or	ASTM 1018/1026
2001 to 2500 lbs. CDS/DOM	1.5" x .120" CDN/4130/seamless	or	ASTM 1018/1026
2501 to 3000 lbs. CDS/DOM	1.75" x .095" CDN/4130/seamless	or	ASTM 1018/1026
3001 to 4000 lbs. CDS/DOM	1.75" x .120" CDN/4130/seamless	or	ASTM 1018/1026
4000 lbs. and over CDS/DOM	2.0" x .120" CDN/4130/seamless	or	ASTM 1018/1026

## **CONSTRUCTION PROCEDURES**

Cages must be securely mounted to the body or frame, braced and gusseted at all connections. Body or cab mounted cages must not be attached by direct welding but must be attached by and bolted through the use doubler plates on each side with a min. thickness of .187". Bolts that are used shall be at least .375" dia. SAE Grade 8 or equivalent. Ends must be located to a body or frame supporting maximum impact. Minimum material dimensions apply to the following:

- 1) Rear and front hoop
- 2) Rear and front interconnecting bars
- 3) Rear down braces
- 4) Lateral bracing and diagonals must be the same size tubing as the roll cage.**
- 5) Elbow and door bars
- 6) Lower A- and B-pillar tubes

## **ROLL CAGE DESIGN**

All roll cages must be constructed with one front hoop, one rear hoop, two interconnecting top bars, two rear down braces and one diagonal brace and necessary gussets. All vehicles must have a diagonal brace. Any vehicle that is not provided with stock steel doors for its driver and co-driver must be equipped with side bars at least one on each side.

## **Safety Harness**

All vehicles must have 3 inch heavy duty type five point fast release (no push button) seat belt and shoulder harness with metal to metal buckles and connectors for each occupant. The single anti-submarine strap of the five point system shall be attached to the floor structure as close to the front as practical so that it will exert maximum restraint to the upward movement of the belt and harness. No "Y" type shoulder harnesses are allowed. **All belts must show manufacturer's name, month and year of manufacture and must be readable or they have to be replaced. All belts must be changed after three years of date.** There must be two "D" rings per shoulder harness. All belt hardware must be safety tied or cotter keyed. **2 inch shoulder harness is allowed only if you are using an approved head and neck restraint.**

## **Safety Nets**

**MORE** approved safety nets are mandatory on all vehicles. The nets must be fastened every six inches by hose clamps, snaps, nylon ties, Velcro, lift a dot, metal hooks or steel rods. Netting must be installed on the inside of the roll cage. The nets must cover the whole side of the driver's compartment. The roof must be covered with sheet metal or aluminum. Must have metal clamps on the top corners.

## **Seating**

All seats must be properly reinforced and securely mounted.

## **GENERAL VEHICLE COMPONENTS**

### **Driver's compartment**

Driver and/or co-driver must be able to enter and exit the driving compartment unassisted with ease, with the vehicle in any position. The driver's compartment must be separated by firewalls or bulkheads from any acids or fuels.

### **Doors and Latches**

All vehicles with operable doors must have a positive locking mechanism and if the nets are fastened to the door then a secondary latch must be installed.

### **Firewalls**

All vehicles in competition must have an all metal firewall to separate the driver's compartment from any danger of fire from the engine and any fuel supplies. A minimum firewall must extend

from the drivers shoulder height to the vehicle floor and body sides. If rear mounted fuel cell is higher than shoulder height, the firewall must be extended at least one inch above the fuel cell.

### **Ballast**

Any material used for the purpose of adding to the vehicle's weight must be properly attached as part of the vehicle's structure.

### **Weight**

Weight shall be considered dry weight for long course and wet weight for short course (dry weight is with all fuel tanks drained.) Tools, spare tires and parts must be removed. But otherwise the vehicle must be race ready. Official weight will be considered weight shown on official scales.

### **Floorboards**

Floorboards or belly pans are required on all vehicles and must be held on by a minimum of six bolts per side. It must cover the entire area from front to back and from side to side. No dzus fasteners.

### **Bumpers**

No hazardous front or rear bumpers, nerf bars, frame heads or other protruding objects from the vehicles are allowed.

### **Mirrors**

A rear view mirror is required on all vehicles.

### **Skid Plates**

Skid plates designed to protect the front suspension, steering and brake components are required on all vehicles.

### **Storage**

All spare parts and extra equipment carried on a vehicle must be securely fastened to prevent movement during a race.

### **Fenders**

On all vehicles required to have fenders they must be securely attached to the vehicle with quick release or breakaway fasteners. The removal of fenders for any reason other than damage after the race has started will cause the vehicle to be disqualified.

### **Chassis and Body**

All body parts shall remain on the vehicle (accidental damage excepted) during the entire race. As specified in individual class rules, body/chassis series must be maintained with body/chassis combinations.

### **Hoses**

**All hoses used for fuel and oil lines must be hosed clamped.**

### **Identification markings**

All vehicles must be identified with the correct vehicle number(s) for that class. All vehicles must have a number plate visible from each side of the car, one visible from the rear and one

on the front. Numbers must be **black on white background** or **white on black background**. Glass is considered colorless unless it is painted white or black. Side numbers must be a **minimum** of 8" high with a 1" stroke. Front numbers must be a **minimum** of 4" high with a ½" stroke. Rear numbers must be a **minimum** of 6" high with a 1" stroke.

Background or number plates shall be clearly distinguishable from the color of the vehicle.

Background or number plates shall be either vinyl or paint.

**Any combination of numbers that, in the opinion of MORE, are difficult to read, in an undesirable location or are inadequately attached will be rejected. The violation must be corrected before the vehicle will be allowed to compete.**

**MORE** assumes no responsibility for scoring vehicles that have unrecognizable identification numbers. It is the driver of records responsibility to keep numbers recognizable at all times during the event.

### **Advertising on Vehicles**

Advertising may be displayed on vehicles provided they are in good taste and do not interfere with numbers.

### **Workmanship**

All construction, modifications and alterations must be performed in a workmanlike manner contingent upon the approval of **MORE**.

