

REGULATIONS

MCGREGOR OFFROAD SERIES

These general rules are applied in all the series of McGregor OffRoad Series in addition to the rules specific to the different classes.

The rules and/or regulations set forth herein are designed to ensure the smooth performance of races and events as well as to provide minimum qualifying requirements for such events. All McGregor OffRoad Series members are deemed to have recognized, accept and respect these conditions.

No express or implied guarantee of security can result from the publication or the respect of these rules and/or regulations. The rules are intended to guide the conduct of the sport and in no way guarantee participants, spectators or other persons no injury or death.

The MCGREGOR OffRoad Series regulations are the exclusive property of the MCGREGOR OFFROAD SERIES series. The use of these rules by any other organization or person is prohibited except with the written permission of McGregor OffRoad Series.

MCGREGOR OffRoad Series, its parent company, its affiliates, its executive members, its directors or its personnel assume no legal or any other liability in the event of a defect or malfunction of any product of the manufacturers listed in these regulations book.

MCGREGOR OffRoad Series is not responsible for actions or decisions made by individuals, promoters or organizations, etc. using the McGregor Offroad Series regulations.

The specifications and/or standards suggested in these regulations are intended to serve as a guide with respect to safety and for no other explicit or implicit purpose. The use of the specifications and/or suggested herein by any association, organization, manufacturer or individual is entirely voluntary and McGregor OffRoad Series will not accept any responsibility for the consequences resulting from the application or said specifications. and/or suggested standards.

The spirit and intent of the rules will become the norm at the origin of the McGregor OffRoad Series. If these rules do not say specifically that an action is allowed, then you must consider that the change is illegal. It is the responsibility of each participant to ensure that his/her driving and equipment comply with all applicable rules. These rules may be modified or changed by the MCGREGOR OFFROAD SERIES at any time in the interest of the competition.

These regulations are intended to serve as a guide for the conduct of races and do not guarantee in any way to participants, spectators or other persons no injury or death.

NOTE

Terms used in the singular and the masculine shall include the plural and the feminine, as the case may be. The regulations in this section will be effective for all subsequent sections.

MARKING AND IDENTIFICATION

- A. All vehicle numbering is subject to approval and is awarded by McGREGOR OffRoad Series.
- B. Trucks and SxS: The identity of the class must be indicated in the lower right corner of the number box using numbers and letters of a minimum of 1 1/2 inches.
- C. McGregor OffRoad Series officials may ask a competitor to use a different number to avoid confusion or duplication during an event.
- D. In the event that a vehicle number is not visible from the timekeeping and scoring ranges, the competitor will not be marked.

It is the competitor's responsibility to ensure that the number is visible in all race conditions.

- E. Advertising on racing vehicles must be of good taste.
- F. Reflecting figures are not permitted.
- G. All trucks and SxS must wear McGregor OffRoad Series stickers on each side of the front of the door at a distance of 4 inches below the opening of the window. All quads, the sticker on each side on the front quad.
- H. McGregor OffRoad Series may require the use of specific sponsor stickers.
- I. Team vehicles with the same paint and the same colors must bear distinctive marks.
- J. Figures must be side by side. No outline, stack or shadow is authorized. An italic incline of 25 degrees or less is allowed.
- K. The numbers will be at the following positions:

Trucks, SXS and Pro buggy:

1. The identification plate on each side, the front side of the identification plate shall be located 6 inches from the rear of the cab. The lower side should be 4 inches above the rear wing. The identification plate must be under the roof line. (Must also include class identification in this area)

Quad: The front identification plate on the bumper and rear are mandatory.

Trucks, SXS and Pro buggy:

2. Vehicle roof, visible on the passenger side.
3. Upper left corner of driver's side windshield (must also include class identification in this area.)

GENERAL REGULATIONS (APPLICABLE TO ALL RACE STYLES)

LICENSES

Riders must be members of the FQMHR (Fédération Québécoise des Motos Hors Route)

Riders must obtain a current effective license from McGregor OffRoad Series at the time of registration. Age Restriction: McGregor OffRoad Series staff may require proof of age and may require an ID such as Medicare card or driver's license. Any driver enrolled in one of the following categories must meet the corresponding criteria by January 1st of the current year, except for 6-year-olds children, who must be 6 years old at the latest on the day of the race.

Class 14 years old and over	Quad Class	Beginner	0-700cc
Class 14 years old and over	Quad Class	Inter	0-700cc
Class 14 years old and over	Quad Class	PRO	0-700cc
Class 30 years and less	Quad Class	Amateur	0-700cc
Class 30 years and less	Quad Class	Pro	0-700cc
Class 30 years and over	Quad Class	Amateur	0-700cc
Class 30 years and over	Quad Class	Pro	0-700cc
Class 10 -14 years old	Quad Class	Novice	0-400cc
Class 14 years old and over	Quad Class	Women	0-700cc
Class 14 years old and over	Quad Class	4 X 4	0-1000cc
Class 4 -13 years old	Quad Class	Mini	0-300cc
Class 16 years old and over	SXS Class	PRO N / A 4X4	0-1000cc
Class 16 years and over	SXS Class	Turbo open 4X4	
Class 16 years and over	SXS Class	PRO N / A 2X4	0-1000cc
Class 16 years and over	SXS Class	Turbo open 2X4	0-1000cc
Class 16 years and over	Pro-Buggy Class	Pro Buggy	1400cc - 2500cc
Class 16 years and over	Truck Class	Super Truck	7000cc
Classe 16 ans et +	Classe Jeep & Pickup	Open 4X4	0-7000cc

Spec McGREGOR

The 3 (three) drivers finishing at the top of the annual ranking of each of the categories are in the obligation to pass to the higher class. McGREGOR OffRoad reserves the right to remove or to add different classes according to the number of registered runners in each class.

The Director of the race or the Board of Directors reserves the right to relocate a driver in the correct class at any time.

COMPULSORY EQUIPMENT OF THE PILOT

Quad class

Motocross-type boots, long motocross pants, long-sleeved shirt of the motocross type, plastron (chest protector), knee protector, motocross type gloves, motocross type glasses and helmets are mandatory.

Helmet:

- The helmet must be worn and fastened at all times when the pilot is moving with his vehicle.
- To be approved, all helmets must bear a seal from the manufacturer attesting that they comply with at least one homologation standard as follows. The helmet which must be equipped with its original seal or seals and the seals must remain visible.
- D.O.T. FMVSS 218, manufactured in 1989 or after; Snell M -85 or M -90 or updated; CSA3 - D230-M85 or updated;
- D.O.T. helmets must also bear the seal of origin indicating the month and year of manufacture.

Amateur SXS Class

The helmet is mandatory and the glasses type motocross or visor helmet.

Helmet:

- The helmet must be worn and fastened at all times when the pilot is moving with his vehicle.
- To be approved, all helmets must bear a seal from the manufacturer certifying that they comply with at least one homologation standard that follows the helmet that must be equipped with its original seal (s) and seals remain visible.
- D.O.T. FMVSS 218, manufactured in 1989 or after; Snell M -85 or M-90 or updated; CSA3- D230-M85 or updated;
- D.O.T. helmets must also bear the original seal indicating the month and year of manufacture.

SXS PRO Class, Super Truck and Pro buggy

Anti-fire clothing (suit), anti-fire gloves, anti-fire shoes, neck protector (Hans3), glasses or visor. All equipment must bear a seal from the manufacturer certifying that they are conform to SFI3.2A certification standards or updated.

Helmet:

- To be approved, all helmets must bear a seal from the manufacturer certifying that they comply with at least one homologation standard that follows. The helmet which must be equipped with its original seal or seals and the seals must remain visible.
- Snell M -85 or M-90 or updated; CSA3-D230-M85 or updated; IFS 41.1 or updated.

VEHICLE

QUAD VEHICLE

There is no class according to the cylinder. However, the following categories are limited:

- All classes (except children)
- Any modification is accepted
- The number of CC must be respected

Maximum width from the outside of the tires	Maximum 50 inches
For children	Maximum 36 inches

Any 13-year-old child and under must respect a maximum cylinder of 200cc 2t and 300cc 4t regardless of the category. Any modification is accepted. The number of cc must be respected

Security device

All Quad vehicles must be equipped with a circuit breaker in operating condition, the original length circuit breaker must be attached to the driver at ALL times under risk of penalty. Vehicles must in no case be equipped with pointed and/or sharp objects. All Quads must be equipped with running boards (nerve bars) for each class.

SIDE TO SIDE (Chassis)

All vehicles must use the original chassis and maintain their appearance. The chassis (frame) is defined as the main lower rails along the interior dimensions of the vehicle, and the front and rear tubes that connect them. The frame can be modified for its durability and resistance, but must retain the width, length and the stock configuration. All changes must be pre-approved by the McGregor OffRoad Series Manager.

The maximum width from the outside of the tires is 75 inches.

Amateur Class - Open Modified - Open - Changed - RSI (*see Figures 12-13-14*)

1. "After Market" security cage is recommended for your safety.
2. 5-point belts are recommended for your safety.
3. Door safety nets are recommended for your safety

PRO class

1. The race seat is required
2. 5-point belts are required
3. An aftermarket security cage approved by McGREGOR OffRoad Series is required.
4. Door safety nets are required.
5. A fire extinguisher accessible by the pilot is required.
6. All vehicles must have a positive action on/off switch in good working order. A switch must display ON/OFF with a red circle and be found on the left side of the dashboard and must be accessible from outside the racing vehicle. The red circle must be at least 1 inch wide.

Engine

Amateur Class N / A PRON / A and RSI

- The original cylinder (OEM) between 0-1000cc
- The number of cc must be respected
- Turbochargers and volumetric compressors are prohibited.
- Minimum vehicle weight without driver 1600 pounds

Turbo PRO Class

- The original cylinder (OEM) between 0-1000cc
- The number of cc must be respected.
- Turbochargers and volumetric compressors are accepted
- Minimum vehicle weight without driver 1700 pounds

OPEN MODIFIED class

- Any cylinder accepted

Fuel

Gasoline must not be mixed with alcohols

Cooling liquids of any type of fuel are not allowed during the competition. If an official fuel is named, McGregor OffRoad Series will sample the fuel provided by the fuel supplier and this fuel sample will become the reference from which all fuel sample competitors will be judged.

McGREGOR OffRoad Series reserves the right to take a competitor's fuel sample at any time for testing purposes.

Nitrous oxide

If McGregor OffRoad Series officials suspect that there are substances in the fuel, chemical testing will be done at the expense of the competitor if the competitor is found to be guilty.

RSI class

- The fuel must be 91 or 94 pump gasoline octane or Renegade HR P97

PRO TURBO OPEN Class - OPEN MOFIFIE, Amateur N / A and PRO n / A

- The fuel must be only leaded or unleaded gasoline with a maximum octane rating of 116.

Transmission

Amateur Class N / A, RSI, PRO N / A, PRO TURBO

- Each vehicle must use the original transmission and clutch design.
- The rear and front original differentials must also be used.
- All vehicles must have a functional reverse.

OPEN MODIFIED class

- Any type of transmission is accepted
- All vehicles must have a functional reverse.

PRO-BUGGY

Vehicle

Vehicle with four wheels and two wheels drive having an engine with no more than 1715cc water-cooled and 1915cc for air-cooled engine. Minimum weight with driver, 1600 lbs, at the end of the race.

Engine

- A. Maximum of 1915 cc with two (2) valves for air-cooled engine.
- B. Maximum of 1715 cc with two (2) valves for water-cooled engine.
- C. Maximum of 1650 cc if more than two (2) valves for water-cooled engine.

Carburator

Any make of automotive production carburators allowed.

- A. Maximum of one (1) carburator for water-cooled engine.
- B. Maximum of two (2) carburators for air-cooled engine
- C. Maximum of two (2) ventures by carburator.
- D. Ventures:

Water-cooled engine of 1600 cc or less with more than two (2) valves by cylinder: 29mm

Water-cooled engine of 1601 cc or 1650 cc with more than two (2) valves by cylinder: 28mm

Engine with only two (2) valves by cylinder : 42mm

- E. Fuel injection/Rotary piston engine/Compressed or Turbocharged engine are not allowed.

Engine

Any stock engine that meets the following specifications may be used if it a design that has been series produces un quantities of 5 000 or more, and readily available for sale to the general public in the U.S.A.

- A. It has a maximum of four (4) cylinders.
- B. It retains a maximum of no more than four (4) valves per cylinder.
- C. It id not a rotary engine.
- D. It does not displace more than 2400 cc in the stock form.

Stock Production

2.2. or 2.4 L Sealed GM Ecotec – Must use factory stock fuel injection. Any ignition system allowed. Port of factory direct injection is allowed.

2,0 L – 16-valve Sealed Ford Engine 14-DI-TIVCT – Must be use stock Ford direct injection with ignition manufactured by Ford

Fire suppression equipment

Each vehicle shall be equipped with at least a portable UL-approved 2 ½ lbs. ABC rated dry chemical type extinguisher, equipped with a capacity gauge. The extinguisher must be fully charges and securely mounted and accessible.

Fasteners

All nuts, bolts, components parts, suspension system and running gears must be secured with either lock nuts, lock washers, cutter keys or safety wired and must have at least one thread showing through the nut.

Seat belts

All vehicle are required to have a 5 points single release 3" harness and must be of good condition.

Safety nets

Approved safety nets is required.

Seating

The seat must be adequate and properly secured.

Shock absorbers

At least one shock absorber per wheel, in working condition, must be used on all four (4) wheels.

Wheel and tires

All wheels and tires must be in good condition. They have to be considered safe by the technical inspector prior to any run of the vehicle.

Brakes

Brakes must be in safe working condition and apply adequate braking force to "Lock-up" all four wheels. "Steering brakes" are allowed.

Ignition

All vehicles must have a positive action "On-Off" switch in working order, located within easy reach of the driver and labeled: "IGNITION ON-OFF"

Batteries

Batteries must be securely mounted with metal tie-downs. All batteries mounted in the driver's compartment must be enclosed.

Brake lights

All vehicles must have at least one brake light in good working condition.

Starter

All vehicles must have a battery and starter capable of cranking and starting the engine at all time.

Fuel

Any of following commercially available fuel may be use:

Service Station type pump fuel as manufactured.

Racing gasoline as manufactured.

Commercial aviation gasoline as manufactured.

Fuel tank

All fuel tanks must be securely mounted and filled and vented from the outside the vehicle. This will be carefully checked at the technical inspection.

Transmission

All vehicles must have a functional reverse gear.

Roll cages

All vehicles must be equipped with a roll cage of a approved design. All welds must be high quality.

Driver's compartment

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

Ballast

Any material used for the purpose of adding weight to the vehicle must be carefully and properly attached has a part of the vehicle structure and holes must be made for the purpose of being sealing to the structure of the vehicle.

Floorboards

Floorboards or belly pans are required on all vehicles.

Skid Plates

Skid plates designed to protect "Front-End" of the vehicle are required and should be installed in a way to prevent accumulation of any liquids.

Bumpers

All vehicles must be equipped with safe front and rear bumpers.

Silencers

All vehicles must be equipped with an efficient and securely mounted exhaust.

Workmanship

Appearance and workmanship are subject to the approval of the Technical inspector.

Spillage

Engine, transmission, fuel tank and battery must be equipped with adequate anti-spillage device.

SUPER TRUCK (Chassis / Roll Cage)

- A. All trucks must be driven only on the left side. The wheel, the seat and pedals must be approximately situated at their original location.
- B. The construction of tubes, welds, gussets and safety cages must be approved by McGREGOR OffRoad Series.
- C. The material used for the construction of the protective cage must be a round 4130 chromoly tube or ASTM 1018 -1026 CDS / DOM
- D. Diameter and minimum thickness of tubes for vehicles: 1 3/4 x .120
- E. All tubes should be welded at 360 degrees around the circumference of the tube.
- F. Gussets are required at all intersections in the driving compartments within 3 inches of the intersection. (See Figure 3 J)
- G. All plate gussets must be of the same material and thickness as the protection cage, measuring 3 inches by 3 inches.
- H. Tubular gussets and wraparound gussets must have a minimum diameter of 1.0 x 0.065 ".
- I. All trucks must have 3 horizontal door rails per dimension (*see Figure 1*).
- J. Similar diagonals or spacers are required for all front and rear roll bars.
- K. Conductive door bars shall be covered with a minimum of 0.125 " bolted steel plate, with a minimum 3/8" and 6 "center bolts.
- L. Door siding must completely cover the bottom of the main rail at the top of the door bar and extend a minimum of 4 inches from the front of the pedals to a minimum of 4 inches behind the seat. (*see Figure 2*)

Floor plate under the conductor: steel plate 0.125 "thick or in aluminum 6061-T6 of 0.250" bolted every six (6) inches with 3/8" bolts.

The plate must cover the total opening of the floor, from the front firewall to the rear side tube, from the firewall to the side tube of the driver compartment. The plate must extend to the center line of all floor tubes. The fastening lugs must be made of 0.090 thick steel.

M. Base Plate: 0.125 "thick steel plate or 0.261" aluminum plate. 6061-T6 aluminum 12 inches wide should be centered on the seat back.

The plate must start at the center line of the harness tube and extend to the floor of the driver compartment. The plate must be located inside the vehicle, between the seat and the rear firewall. The plate can be welded (welded mesh of one (1) inch every six (6) inches) or bolted in place. Vehicles using metal tube frame seats can attach a plate to the seat. The plate should be spaced 1.5 inches from the seat if attached to the seat.

(see Figures 7 to 11)

1. The chassis must only have rectangular tubes of 3 inches by 2 inches, with a minimum wall thickness of 0.125" and must be constructed in accordance with standard McGregor Offroad Series prints.
2. The removal of the material of the frame is authorized only for release of the rack and pinion steering. Removal of this material must be approved by McGregor OffRoad Series.
3. The minimum width of the upper protection cage must be 43 inches from the outside of the bar outside the other bar.
4. The width of the bar at the elbows must be at least 60 inches from one end to the other.

Exotic materials

No titanium or other exotic material or fasteners may be used in the vehicle, with the exception of the components of the motor.

Measures

1. Trucks can be measured at the entrance and/or race track exit and must comply with measures at all times.
2. Common sense will be used for any truck leaving the track with significant and obvious damage, at the discretion of the technical director.
3. All measurements will be taken with McGregor OffRoad Series technical instruments or gauges.
4. The wheelbase shall be measured one side from the center of the front wheel to the center of the rear wheel of the same side. The maximum allowable tolerance can not exceed 1/2" more or less on the other side.

5. The displacement of the front wheel is measured on a vertical plane from the center of the end of the hub. The rear travel is measured on a vertical plane from the center of the rear axle.
6. All movement measurements of the wheel are made from one stop to the other without spring removed.
7. The measurement of the wheelbase in width will be taken on the maximum outside surface of the tire. The gauge must pass freely to the ground. McGregor OffRoad Series managers determine all measurements and milestones.
8. The maximum width is 93 inches.
9. The wheelbase is 117 inches.

Sill height

- D. The truck must run at a minimum height of 10 inches. This will be measured at the lowest point of the front firewall and at the rear firewall. This includes the heads of the belly shell bolts and all other items that may be under the frame or belly shell.
- E. Trucks can be measured for proper ride height before and after the competition.

Body (body panels)

- A. All trucks must have complete bodywork, a cab, a hood, doors, fenders, a grille and a roof in perfect condition, and standard location.
- B. Complete bodies must be attached at the beginning of the competition, practice or any track activity. They must be fixed in such a way as not to create sharp or cutting extrusion when removing panels. A rounded buckle as a mounting bracket for the bodywork is obligatory.
- C. All forms and configurations of bodies and wings must be approved by McGREGOR OffRoad Series.
- D. All body components must be installed at their standard location, more or less 1 inch, as indicated on the model's manufacturing document for a standard truck.
- E. Additions to the body or racing vehicle, such as wings, fins, air intakes and other extraneous additions will not be permitted.
- F. The addition of front air vents under the rack must not exceed 9" inches from the bottom of the grid. Entrances must be at least 12" inches of the ground.

- G. The interior of the racing vehicle must be completely covered with a minimum of 0.040" inch metal from the front to the rear, including the front and rear firewalls.
- H. Vehicles must be equipped with a complete set of bumpers approved by McGREGOR OffRoad Series.
- I. The roof line, the sills and the tops of the rear wings must be parallel to the horizontal frame elements.
- J. The rear wings must be the total length of the rear of the vehicle, including the light.
- K. Rear dimensions must be a minimum of four 1/4 inch thumb bolts evenly distributed at the front of the wings and four 1/4 inch minimum bolts evenly spaced at the rear of the wings. Bolts must have 2 inch washers and be aligned vertically. The front side hangers of the 'bed' must be independent of the cab. (*see Figure 5*)
- L. Door panels must retain all factory molded outline and accent lines and be secured with Dzus knobs or hex bolts. The cab and rear wing mounting must be independent of each other.
- M. The floor of the driver's compartment must have a minimum of 1/8 of an inch. The floor should extend 4 inches in the front of the pedals to 4 inches behind the seat.
- N. Mudguards are required and must extend from 6 inches above the center line of the rear axle to 3 inches from the vehicle's nominal height. (*See figure 6*)
 - 1. The mudguards shall be 14 inches wide and made of hard plastic polymer at the equivalent of 1/4 inch thickness.
 - 2. No assembly with tie-wrap type fasteners or chains
 - 3. Must be mounted between 1/8" inch x 1" inch metal plates and mount to resist folding.
 - 4. Each mudguard must be installed with a minimum of five (5) 1/4 inch bolts.
 - 5. Must be centered on the tire.
- O. The roof must be properly secured to the truck protective cage and secured with Dzus knobs hex head bolts of 5/16" only. Bolts must be hex head only for use with a key socket or a hexagonal key, with free access for removal from the top of the vehicle. All nuts must be fixed in under the mounting tabs of the protective cage, either by welding, use of plates or threaded nuts to clip.

- P. Aluminum or steel sheets (minimum thickness of 1/4 inch aluminum or 1/8 inch steel) must completely cover the left top of the protective cage over the head of the driver, from the front to the back of the protection tube.
1. The protective sheet must be firmly attached to the cage and extend 1/2 inch beyond the tube axis in all four directions.
 2. The protective sheet must be installed with a minimum of 6 5/16" inch equidistant bolts, not protruding down the driver. The bolts must be hexagonal head only for use with a hexagon key, with access free for removal from the top of the vehicle when the body is removed. All nuts must be fixed below the protective cage mounting tabs by welding, using captive lock plates or threaded bolt clips. No use of snap nuts where snap nuts are allowed unless they are soldered in place. The bolts must be lubricated for easy removal. The use of Lock-tite should be avoided.
 3. The mounting tabs must be at least 0.095 thick
 4. The wings may be flared outside the tire.

Bumper

- A. Race cars must have front and rear bumpers. Officially, McGregor OffRoad Series must approve all bumpers.
- B. The front bumper must be placed 1 inch in front and can not protrude more than 12 inches beyond the grill. The bumper could not be wider than the inside of the front tires when straight.
- C. The rear bumper must have a minimum distance of 6 inches from the bumper to the fuel tank and must not exceed 1 inch beyond the front to rear exterior tire line.
- D. Bumpers shall be constituted of tubes with a minimum diameter of 1.5 inches before 0.095.
- E. All bumper supports must be at least 0.095" inches.
- F. The rear bumper must be 1 inch behind the rear wings, measured in a straight line between two wings.
- G. The side steps must not exceed more than 2 inches from the front to rear exterior tire line.
- H. The side steps and bumpers must be rounded.
- I. The minimum width of the front and rear bumpers is 36 inches.

Suspension

1. No adjustment of the suspension or stabilizer bar is permitted while the vehicle is in motion. This includes but is not limited to hydraulic, electrical, mechanical and manual adjustments.
2. The front wheel displacement limit is 18 inches maximum.
3. The rear wheel displacement limit is 20 inches maximum.
4. Rear suspension with four bars only.
5. The rear axle housing can not rotate independently of the pivot points.

Steering components

- A. The McGREGOR OffRoad Series manager must approve the universal joints in the steering shaft.
- B. Hydraulic assisted steering is authorized.
- C. Metal coupling for quick release of the steering wheel is mandatory and must be approved by official McGregor OffRoad Series Officials.

Suspensions, Shock absorbers

- A. McGregor OffRoad Series officials must approve all shock absorbers.
- B. All trucks must have at least one working shock absorber on each wheel and a maximum of 2 shock absorbers per corner.
- C. Shock absorbers may have external bypass tubes and reservoirs.
- D. Shock absorbers can not be set when the vehicle is moving.
- E. Chemicals for heating or cooling is not allowed in shock absorbers.
- F. Shock absorbers can not be attached in any way. This includes, but is not limited to, hydraulic, electrical, manual or mechanical links.

- G. Determination of the use of pneumatic shocks will be as follows: A truck will be presented to McGregor OffRoad Series on flat ground at the existing ride height. The height of the truck will be measured from a given point of chassis and all the reservoirs will be purged of air, nitrogen or other support charge. If the truck drops more than 1 1/2 inches, the truck will be considered illegal.
- H. Bump Stops will be allowed at the front and back.
- I. Bump stops will only be legal if they absorb up to the last 6 inches of upward compression.
- J. A spring shock absorber is allowed per corner with a maximum of 3 springs per shock absorber.

Brakes and brake cooling

- A. The brakes must be operational on all four wheels at all times. All brakes must be approved by McGregor OffRoad Series.
- B. Only disc brakes with (magnetic) steel rotors using standard metal caps are permitted.
- C. Electronic wheel speed sensors or brake actuators will not be permitted.
- D. Brake pressure sensors are permitted.

Weight

- A. The driver will be included in the minimum weight of the racing vehicle in a seated driving position.
- B. Vehicles can be weighed before competition.
- C. McGregor OffRoad Series Officials must approve all weights.
- D. The added weight must be in block form.
- E. The blocks must not weigh more than 5 pounds each and can not be made of liquids or granules.
- F. The additional weight must be correctly bolted to the racing vehicle on a component/tube of the main chassis.
- G. Displaced weight can not be returned to the vehicle to be weighed at the end of the race.
- H. All blocks must be painted white and identified with the vehicle number.

- I. No weight transfer device of any kind is authorized. This includes, but is not limited to, hydraulic or electronic devices.
- J. All vehicles must respect a minimum weight and a percentage of the front, before and after the race.
- K. Any lost weight on the track will result in a fine of \$ 5.00 per pound.
- L. Trucks must weigh a minimum of 4000 pounds.
- M. The minimum weight on the front axle is 45% of the total weight of the truck

Engine block

- A. Engines are subject to inspection by McGregor Officials OffRoad Series at any time.
- B. At the discretion of McGregor OffRoad Series, engines will be prepared for certification by McGregor OffRoad Series officials.

SUPER TRUCK ENGINES

1. The engine block must be of McGregor design and sealed.
2. The engines are subject to inspect by McGregor OffRoad Series officials at any time.
3. The maximum setback of the engine is 42 inches from the center axle.
4. No rear motor truck will be allowed. The engine must remain at the front of the truck.
5. Blocks can not be changed by adding hardware unless approved by McGregor OffRoad Series officials.
6. The oil tanks of the engine and of the transmission must be placed between the frame rails.
7. Data recording devices and/or any other form of measurement, sensor or recording of any kind or nature are permitted only for the following:
 - A. Related components - Engine speed, water temperature, engine oil temperature, oil pressure, fuel pressure, voltage, lambda O2 (oxygen sensors), exhaust gas temperature, vacuum / pressure inlet manifold (the same sensor can be used in intake or crankcase),

water pressure, pressure of the assisted steering pump, oil temperature of the engine power steering .

- B. Gearbox related components - oil / transmission fluid temperature, main transmission pump.
- C. Transfer box oil temperature, transfer box oil pressure, gear oil temperature, brake pressure sensors.
- D. Other sensors are allowed, accelerometer, GPS, chronometer or recorder of any type are allowed.
- E. Any measurement or data logging configuration must be fully open and available for McGregor OffRoad Inspection.

At any time during a McGregor OffRoad weekend, all stored data must be erased before the start of the competition; this will include all practice or qualification data. If the data is stored on a removable chip (ie RacePak style), it must be installed and stored by McGregor OffRoad Series before entering the track. A "lack" of data or the absence of data may result in penalty including disqualification.

F. The following digital dashboard units are allowed

- 1 - Motec - any model
- 2 - Race Pak - any model.
- 3 - AIM - any model
- 4 - Life - any model
- 5 - All other digital systems must be approved by McGregor OffRoad Series.

G. No anti-skid device.

H. No wireless device on the vehicle is allowed.

I. No transfer of data is allowed to or from the vehicle while in motion.

1 - Only the sensors prescribed by McGregor OffRoad Series can be used as is.

2 - No modification to a wiring harness or sensors is allowed for any reason whatsoever.

Electric Motor Vehicle Systems

A. All ignition systems must be approved by McGregor OffRoad Series.

B. No computerized system is permitted without the approval of McGregor OffRoad Series.

C. Any brand of sparkplug can be used.

- D. All vehicles must be equipped with a functioning alternator/generator system.
- E. All vehicles must have an independent starter in working order and must be able to start on their own.
- F. All electrical switches must be located on the dashboard.
- G. All vehicles must have a main on/off switch connected to the battery to shut off all electrical power and motor.
- H. The main switch must be labeled as such, circled by a red circle on the left of the instrument panel or on the left rear and must be accessible from outside the race vehicle. The switch must turn in a counter clockwise direction. The red circle must be at least 1 inch wide.

Engine Cooling System

- A. Installation, location and type of electric cooling fan must be accepted by McGregor OffRoad Series.
- B. No chemical refrigerant freezing product shall be used in or near the engine compartment or anywhere on the truck.
- C. Electric engine cooling fans are optional.

Engine exhaust systems

- A. Exhaust mufflers are required on all exhaust systems.
 - 1. Any non-compliant competitor after 4 consecutive competitions will not be allowed to compete or may be disqualified.
 - 2. Exhaust pipes must be securely fastened to collectors.
 - 3. Exhaust pipes must extend from the driver's compartment to the outside edge of the truck and to the driver's rear.
 - 4. All exhaust gases must be evacuated downwards or outwards on either side of the vehicle.
 - 5. The exhaust heat shields entering the truck cab must have a thermal protection screen.
- B. The exhaust pipes entering the truck cab must have a thermal protection screen.

1. The headers must be made from 1 3/4-inch primary tube with a single cartridge style manifold (not fused and can not have internal separators or cones). A primary tube of 1 inch and 5/8 can be used in the first 10 inches measured from the exhaust flange. An oxygen sensor plug or a 3/4 pipe must be welded at the intersection of the collector and the tubes. Must be located for easy access for inspection.
2. OEM exhaust collectors must be stored as supplied by McGregor OffRoad Series.

Fuel tank

- A. All fuel tanks must be approved by McGregor OffRoad Series.
- B. MCGREGOR OffRoad Series will reject any previously approved tank that appears to be defective, damaged or poorly maintained.
- C. No pressure system will be allowed. Any container, supply line or pressure control device concealed or not concealed shall not be permitted, even if they are useless.
- D. Icing, freon type chemicals or refrigerants should not be used in or near the fuel system.
- E. Electric fuel pumps must have a system for stopping the oil pressure. A loss of oil pressure will automatically stop the fuel pump.
- F. No other material than the standard foam supplied by the tank manufacturer is permitted.
- G. The fuel tank mounted at the rear must have a protective shield between the fuel cell and the driver and be protected from obstacles on the ground.
- H. The tanks must be dated by the manufacturer. The tanks become obsolete ten (10) years after the date of manufacture and must be replaced.
- I. All fillers and of fuel cell vents shall be fitted with anti-return valves.
- J. The fuel regulator vent line must be connected to the following:
 1. Vacuum of the intake manifold.
 2. To the air filter so that the fuel enters the engine.
 3. To the tank.
 4. Pass the air hose in front of the rear axle.
 5. A splash guard must be in place to direct any spillage away from the driver, the engine and its exhaust. A body panel is a splash-proof shield considered sufficient.

- K. The tank can not be ventilated in the driver's compartment.
- L. The tank must be located behind the cabin. The fuel cell shall have a .0125 inch protection plate covering the entire bottom, sides and rear of the fuel reservoir. All the supports must be approved by McGregor OffRoad Series. The reservoir cannot be mounted on a protection plate. The cell must be mounted on the chassis.
- M. The reservoir shall be equipped with two 2 1/2 inch steel strips, distributed evenly over the top of the cell with at least two 5/16 inch bolts or one 3/8 inch bolt at each end of the strap. The tank must also have two 2 1/2 inch steel belts or 1 1/2 inch tubes under the cell. Alternative mounting methods may be approved at the discretion of the Technical Director McGREGOR OffRoad Series.
- N. All fuel cells must be made of metal or aluminum of at least 0.060 of thickness. The slide cover must be made of aluminum with a minimum thickness of .090 with 1.0 inch return.

Fuel

ONLY THE FUEL DELIVERED BY MCGREGOR OFFROAD SERIES WILL BE AUTHORIZED. NAMELY RENEGADE 104 XP+

Restricted Substances: The fuel must not be mixed with other substances. Nitrous Oxide is prohibited.

ATTENTION: Sanctions for the use of hazardous chemicals will be severe, including a fine and/or a reduction in the number of points.

Oil cooler

- A. All oil tanks and their installation must be approved by McGregor OffRoad Series.
- B. Oil/air heat exchangers for the engine and transmission or oil/water heat exchangers are permitted.
- C. Cooling fans are allowed. Ice boxes are not allowed in the driver's cabin.

Clutch

- A. Three maximum disk clutches can be used.

Transmission

- A. The transmissions must be standard production, catalogued and available through the usual distribution channels.
- B. All forward and reverse speeds must be in working order
- C. All transmissions must be approved by McGregor OffRoad Series.
- D. The crankshaft of the engine must be connected to the input shaft of the transmission via a conventional clutch assembly, a torque converter.
- E. Automatic transmissions must operate with a conventional torque compressor.
- F. The manual shifting of all transmissions is mandatory unless another method is required to support a driver's disability condition. McGREGOR OffRoad Series officials must approve all non-manual gear shifting procedures.
- G. The use of any Turbo 400-based automatic transmission must use a box approved by SFI 4.1 and bell housing approved by SFI 30.1

Protection screens

- A. The location of all shields must be approved by McGregor OffRoad Series.
- B. The transmission must be completely covered by a protective screen placed to protect the driver from the explosive parts at the beginning of the transmission case / bell housing has 4 inches before a bolt on tail casing. All the shields must be approved by McGregor OffRoad Series.
- C. Shields shall consist of a metal liner of 1/4 inch aluminum or 1/8 inch steel, or be SFI approved.
- D. If you have an SFI 4.1 approved transmission cover and an SFI 30.1 Approved bell housing, no shield will be required.

Gauge

- A. All Gauges must be secured in the tube with a secure locking method.

Drive shaft

- A. A solid steel bracket at 360 degrees, a minimum width of 2 inches and a thickness of 1/4 inch or a 1 inch tube with a minimum thickness of 0.095 inches shall be placed around each drive shaft. Must be between 4 and 6 inches from the rear of the center line of the front joint.
- B. The drive shaft must be painted white and be marked with the vehicle number.

Rear Axle / Differential

- A. Fast-changing extremities are not allowed.
- B. Only steel axles are allowed.
- C. Independent rear suspension is not allowed.
- D. The rear differential must be lock type and approved by McGregor OffRoad Series.
- E. The rear differential must have an inspection cap or inspection plate of at least one and one-half inches (1 1/2 in.), so that officials can see and identify the spool. If the inspection area does not exist, the team leader will remove the differential for technical inspection by McGregor OffRoad Series.

Tires

N.B. McGREGOR OffRoad Series will be the sole distributor of tires and will take the decision on the type of tires authorized. McGregor OffRoad Series officials may allow the use of additional tires for an event, for security reasons.

1. The maximum tire size is 35 " X 12.50 " or the metric equivalent.
2. Interior linings are allowed, or blocks of foam.
3. The soaking of tires is not allowed.
4. The minimum atmospheric pressure at the start line is 13 psi.
5. The equipment used to adjust the air pressure during the race is not allowed.
6. The maximum width of the tread is 10,200.
7. The maximum diameter of the tire is 35 ".
8. All tires will be measured on a 17 " diameter race wheel x 9 " of width with an inflation pressure of 13 psi.
9. Each team will be awarded 16 tires for the 7 race events.

McGregor OffRoad Series officials may authorize the use of extra tires for an event for safety conditions. If permission is granted, this competitor must start at the back of the field for the remaining races of the series. If a team is found to edit or circumvent information, the team will be disqualified.

When a team is found to use tires other than the tires priorly assigned and marked by McGregor OffRoad Series, it will be disqualified from the competition and will not be allowed to qualify for the next two races.

GENERAL RULES

RADIOS

- A. The radios must be of the two-way voice type only. Each race team is responsible for meeting the requirements of the FCC.
- B. All radio frequencies must be approved and reported to McGregor OffRoad Series prior to use.
- C. All radio communication systems for racing vehicles must be approved by McGregor OffRoad Series.
- D. Two-way radios used in a McGREGOR OffRoad Series event must not exceed 6 watts output.

TRANSPONDERS

- A. Remote score timers will not be permitted by the teams, the owners or anyone associated with a registration, unless approved by McGregor OffRoad Series.
- B. All teams must purchase or rent remote timekeeping transponders. Transponders can only be purchased through McGregor OffRoad Series and the numbers must be registered with McGregor OffRoad Series officials.
- C. Drivers are responsible for loading and installing all transponders.

Prizes

Trophies, plaques or medals are given in each official class. Prizes in the form of accessories, equipment or gift certificates can also be awarded.

100% of the registration fees will be awarded to the winners.

POINTS

At each semi-final, the top twenty of the class will collect points as follows:

25, 22, 20, 18, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1

At each final the top twenty of each class will collect points as follows:

30, 27, 25, 23, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6

In case of equality in the total points of the championship, the advantage will go to the driver having obtained the greatest number of victories in this category. If the equality persists, the advantage will go to the driver who has obtained the most second positions, then the third most positions, then the fourth most, and etc.

To qualify for the points, the driver must have completed at least one complete lap.

Day members are not eligible for points and purses.

MEMBERSHIP:

Only the holders of the membership card are eligible for championship points as well as purses. The first holders of the membership cards have advantage of reserving their numbers before the others.

The racers from the previous edition have priority in order to keep their race number. However, when that the pre-sale of the membership card is completed it loses its privilege.

The score will accumulate from the date of payment of the membership card.

The race number will be assigned with the license. The number on the vehicle must be the same as that on the license issued to the driver by the McGregor OffRoad Series

All vehicles must display the logo of the official sponsors of the series on their vehicles at the indicated locations. The logos are provided by McGregor OffRoad Series.

Numbers

The numbers from 1 to 5 are awarded to the drivers who have been among the top 10 in the overall championship of the previous year. The drivers entered in the categories PRO and intermediaries are the only ones eligible for this ranking.

RESPECT

- A. Any conduct considered dangerous will result in the exclusion of the driver from the event.
- B. Any improper or unsportsmanlike behavior of a driver or his entourage towards another driver, official, volunteer, member of the medical team, a member of the McGregor OffRoad Series team or sponsor will be sanctioned by the race director and/or the board of directors according to the severity of the gestures or words, ranging from a warning to the exclusion of McGregor OffRoad Series.
- C. It is the responsibility of the drivers / teams / campers / spectators not to let their waste lying on the ground other than at the places provided for this purpose and respect the site of the promoter at all times. In case of non-respect of the places, the culprits will be sanctioned by the Race Director and/or the Board of Directors, depending on the severity of the event, ranging from a warning to the exclusion of the McGregor OffRoad Series.
- D. The placement of persons and vehicles in the parking lot must be strictly adhered to according to the instructions of the organizers of the event.

- E. Curfew is in effect from 11 pm to 6 am every night. Any behavior considered unacceptable (noise, party, engines not extinguished, generators etc.) could lead to disqualification of the drivers and the exclusion of the offending team on the site or a penalty of 5 points in the championship could be given to the participants. (a derogation may be requested for medical purposes for generators. McGregor OffRoad series will indicate where the member will park.
- F. PROHIBITION to fly a drone on the site and during the event, except with the written permission of McGREGOR OffRoad Series.

VEHICLE USED FOR TESTING

A driver must complete the event on the vehicle with which he has started. In other words, it is forbidden for the driver to change vehicles during the race, even with a race restart if necessary. Sanction: Disqualification

For all McGregor OffRoad Series events, no addition to rubber tires will be allowed (screws, chains, nails, etc.).

FIELD TRAFFIC (Pit Riding)

Truck, Quad or side-by-side traffic on the field where the competition is held is strictly prohibited except to get to the start line and technical control. Offenders could receive a penalty ranging from a warning to 5 points in the championship.

For the second offense and the following in the current year, the sanction may go as far as the expulsion from the site.

Exceptions: rescuers, organizers and staff identified by McGregor OffRoad Series.

GENERATOR

The generators must be closed between 11 pm and 6 am. A warning can be given to the offender and the sanction can go from 5 points to the Championship (owner of the generator) and up until the exclusion of the site, with the exception of the generators of the McGregor OffRoad Series. The driver will receive penalties for family members or offending escorts. However, a derogation may be requested for medical purposes

DOGS

Dogs are accepted on the site and must be held on a leash at all times by their owner. The animal must be obeying and not disturbing. Failure to comply with these rules will result in immediate expulsion of the animal and its owner.

SOUND LEVEL

All vehicles (Quad, SXS and Trucks) of participants must pass the McGregor OffRoad Series noise test and the maximum allowed is 108 DBA (Decibels), measured 100 feet from the edge of the exhaust. The participant whose vehicle does not respect the maximum level of decibels can not take the departure. On the other hand, he has the opportunity to do the necessary work on his vehicle to make it compliant before departure. The Director of the race or the referee can at any time check the sound level of a vehicle even if the vehicle has already passed the noise test. Once the sound test has been carried out, it is forbidden to modify the exhaust system of the vehicle. A penalty may be given ranging from a warning to the exclusion of the race. If the sound failure occurs during the race, the driver must stop at the end of this lap and proceed to the repair before resuming under penalty of disqualification.

REFUND

No reimbursement of the costs and access fees to the site will be granted to a driver in infraction.

MEMBER (S) EXCLUDED FROM THE MCGREGOR OFFROAD SERIES

If the name of a member in good standing or Day member of the McGregor OffRoad Series is inscribed on the list of excluded members of competitors , the competitor will be barred from entering the contest site.

TRADE ON SITES

It is strictly forbidden to trade or do business on the site of an event sanctioned by the McGregor OffRoad Series. Only those duly authorized by the McGregor OffRoad Series and installed at designated locations will be permitted to display and sell products and services on the sites. Penalty to operate without authorization from the McGregor OffRoad Series will result in the immediate exclusion of the site and the disqualification of the driver from the event.

POINT OF VERIFICATION

The pointing system is made using a transponder system. A transponder is mandatory for each participant. The transponder is rented, a deposit of \$ 200. by credit card will be required, in addition to the presentation of a valid picture identity card (i.e. driver's license, health insurance card). The deposit will be reimbursed at the end of the event upon the return of the transponder unless the transponder is damaged. In this case, the deposit will not be refunded. The driver is solely responsible for his transponder and his score. If the system does not pick up the transponder wave, McGregor OffRoad Series assumes no responsibility.

DEPARTURE

- A. At the arrival of the starting area, the driver places his vehicle in the starting position and awaits the signal from the race director or the referee.
- B. A driver who arrives late at departure (departure procedure in progress) will be placed in the last position.
- C. The starting method will be to raise the green flag between 5 and 10 seconds after official immobilisation by the director.
- D. We will consider a race started when the starting signal is given. There will be false start when a vehicle starts before the departure signal. If the start is not canceled even though a driver has caused the false start, the offending driver will receive a penalty of up to a 3 position penalty. Following a false start, the offending driver will have to take position on the last line of the starting grid.

- E. If the yellow flag is activated during the first lap of the race and the vehicles in question are in an area that does not allow the race to continue, the director of the race or the referee will proceed with a new start. Only one new start per race. For all other yellow flags requiring a slowdown of the race, the race director or referee will proceed with rolled departures, for each active yellow flag. The vehicles will be set up two by two in single file.

TRACK

- A. The drivers may deviate from the track to get around an obstacle or a fallen driver but must return to the track immediately after going around the obstacle.
- B. The yellow flag indicates a dangerous incident or obstacle nearby. No jumping or overtaking will be done. Drivers will have to slow down and maneuver with precaution from where the flag is waving up until they have passed the place of the incident (or obstacle) that caused the yellow flag. Drivers who have proceeded imprudently, too aggressively, or who have passed another pilot or who have made a jump will be assessed a penalty of 5 positions. Any contact with a maneuver deemed dangerous to the personnel (medical or otherwise) on the track, will result in an immediate disqualification of the offending driver.

STOP OF RACE

- A. Only the Director of the race is authorized to stop a race. In order to do this, he must hold the red flag above his head. All competitors must then stop racing immediately
- B. If the race must be stopped, the final ranking will be re-established according to each competitor's position at the last check point taken before the stop signal.
- C. The driver responsible for the stoppage will resume the start in the last position.

END OF THE EVENT

A race ends when the number of laps has been completed by all the drivers still in the race. We consider a lap complete when no red or yellow flag has been raised and that the driver in first position has completed a lap by crossing the finish line ..

DISPUTE

In the event of a dispute that is not covered by the regulations or following an arbitrary decision, at the request of a prejudiced member, a committee will be formed on the day of the event. This committee will be composed of at least two members drawn at random and present at the event. The decision taken by this committee will be irreversible.

McGREGOR OFFROAD SERIES OFFICIAL ENGINE SPECIFICATIONS

LEGAL FOR THE YEAR 2020

BLOCK : DART SHP LS NEXT Iron

IGNITION : MSD LS 6014 BOX

FUEL INJECTION : HOLLEY SNIPER EFI SEALTH 4500

INTAKE MANIFOLD : EDELBROCK SUPER VICTOR 4500 2890

CYLINDER HEADS : TRICK FLOW GenX® 260, CNC Comp Port 70cc combustion chamber

CAMSHAFT SPEC S : COMPCAMS CUSTOM GRIND

Duration @ .050" 258/264

Lift with 1.8 rocker .652"/.652"

LSA 109

LIFTERS : LSHI RP MÂ HYD. 842D T/BÂ O/CÂ

ROCKER ARMS : STOCK LS7 12579615/12579617 WITH "CHE" CONVERSION BRASS BUSHING

PUSHRODS : 3/8 TRICK FLOW OR COMP CAMS

CRANKSHAFT : Callies Comp Star 4340 forged steel crank, 4.000" Stroke, 58x reluctor Wheel

CONNECTING ROD : Callies Comp Star 4340 forged steel H-Beam rods, 6.125" Long,
ARP 2000 Rod Bolts

PISTONS:WISeco 2618 forged pistons with coated skirts and Stainless Steel AP ring set

HARMONIC BALANCER : ATI

COMP RATIO MAX : 11.8 :1

DRY SUMP SYSTEM : DAILEY DRY SUMP SYSTEM STAGE 3

