



EVANS MILLS RACEWAY PARK

2021 MODIFIED RULES

Will follow ROC Modified Rules

<https://www.rocmodifiedseries.com/downloads/get.aspx?i=604118> (section M.1.B, page 87) with the following exceptions:

(Last Updated March 31, 2021)

The rules herein shall refer to Evans Mills Raceway Park as "EMRP." These rules are intended to create affordable and fair competition. While they offer a good outline, every item cannot be covered by a written rule. Any questions regarding any item not specifically covered in these rules should be addressed with EMRP Officials prior to proceeding. No car, component, or equipment will be considered as having been approved by reason of having previously passed through inspection unobserved or undetected. All equipment is subject to inspection and approval by EMRP Officials. You may be assessed penalties including, but not limited to added weight, fines, loss of points, loss of handicapping, and suspension, car parts, components, and/or equipment deemed as not in compliance with these rules. Any car part, component, and/or equipment which does not conform to the specifications or tolerances contained in the 2021 rules book or is not otherwise approved by EMRP may not be used in competition in 2021 and is subject to confiscation at the discretion of EMRP Officials.

DRIVER SAFETY EQUIPMENT as per ROC Rulebook page 8 section C.c.1

Fire retardant padding recommended. A securely mounted operational 2-½ pound minimum fire extinguisher with gauge visible for inspection purpose is mandatory. Extinguisher must be mounted in a quick release bracket. Fire suppression systems are recommended.

ENGINE OPTIONS:

EMRP has partnered with RPM ALLIANCE for the 2019 Crate Motor Program.

EMRP will accept the following engine options:

- **GM RPM ALLIANCE SEALED MOTOR P/N 88869602**
- **GM SEALED 602 CRATE MOTOR P/N 88869602**
- **ROC TYPE BUILT ENGINE (with restrictor plate or weight option) see Overall Car Weight Section below**

The GM part number 88869602 factory sealed circle track "602" crate engine is the only crate engine permitted. All engines must remain as delivered by GM including harmonic balancer, distributor, valve covers, springs, rocker arms, seals, etc. It is strictly forbidden to tamper with the factory seals in order to gain access to the internal workings of the engine. Engine must conform to GM factory sealed 602 crate engine specs.

EMRP Officials reserve the right to confiscate any 602-crate engine for the purpose of inspection at any time track Officials deem it necessary. No replacement engine will be offered.

Any dyno inspection performed will be based on a predetermined, unpublished HP and torque limit. This limit figure will NOT be made public. There is no tolerance. If an engine exceeds the limit, it will be deemed illegal and become property of EMRP. No reimbursement will be provided.

OIL PAN

The following oil pans will be permitted in 2021:

Champ #CP 106 K0RB pickup CHA 1010SB

Canton #11-102T 6-1/2" pan with Canton #20-030 pickup may be used.

In the event of an oil pan other than those listed above installed on a previously sealed 602 Crate engine, the oil pan must be inspected and approved by EMRP Tech Official(s).

CARBURETOR

Holley 4777, or Holley HP 80541-1 permitted. All parts must be a Holley

manufactured part for the model being used. Polishing, grinding, resizing, or reshaping of any part or orifice is not permitted. OEM type gaskets, jets, and power valve must be used.

CARBURETOR SPACER

Single hole, open plenum, aluminum, or phenolic spacer allowed, maximum distance between intake and carb base is 1.125 inch

IGNITION SYSTEM

Stock ignition system only, that is supplied with the 602-crate engine. Engine must retain stock firing order.

No traction control permitted.

An MSD #8727CT External RPM limiter mandatory. The violet wire must be cut back flush to the unit's housing. The green and the white wires must run directly to the coil negative. The MSD #8727CT must be mounted on the driver compartment deck, right of the driver. RPM limiters must always be fully functional and operational.

602 Crate Motor to be set at maximum of 6200 RPM

ROC Type Engine to be set at maximum of 6800 RPM

ALTERNATOR

A functioning 12-volt single alternator system with an internal voltage regulator

and one (1) output wire must be used. External voltage regulators are not permitted.

The alternator must be mounted on the front of the engine. Only standard

production V-type or flat type V-ribbed alternator drive belts will be

permitted.

OVERALL CAR WEIGHT / Engine Options:

All specified weight requirements will include the driver and race gear. The minimum total weight for cars with a

- 602 GM Sealed with RPM Alliance Seals is 2,450 pounds.

Maximum left side weight 56.5% of the total weight

- 602 GM Sealed (without RPM Alliance Seals) is 2,490 pounds.
(year 2022, 2510 lb)

Maximum left side weight 56.5% of the total weight.

- ROC Type Built 2,600 pounds 11:1 compression ratio
- ROC Type Built with 1.380 restrictor plate (track provided) 2,450 pounds

Maximum left side weight 56% of the total weight.

RADIOS & ELECTRONICS

Raceceivers are mandatory for Race Director Communication, Frequency is 454.000.

RADIOS ALLOWED~ One radio only, with a spotter using it, must be in the spotter stand provided by EMRP.

TRANSPONDERS

AMB X2 Car or AMB TranX X260 car transponder is always required on all cars (NO MX or Kart transponders). Any driver caught improperly mounting their transponder in order to gain an advantage will have their finish position adjusted and/or be disqualified from the event (including forfeiture of points and prize money) at the discretion of EMRP Officials.

Transponder must be mounted 144" from the furthest forward point of the front bumper. Must be mounted on the lower right-side frame rail.

ENGINE COOLING SYSTEM

Only water or EMRP approved coolants or additives may be used in the cooling system.

FUEL SPECIFICATIONS

At all events only Sunoco Track Fuel (Sunoco Crate 100) (Sunoco 110) will be permitted for competition. Blending and/or mixing of the fuel will not be permitted with any other chemicals, hydrocarbons, additives, nitrous, nitrous additives and/or any other fuel enhancement.

FUEL PUMP SYSTEM

Fuel pump must be mounted to engine block in stock location. No belt drive fuel pumps.

Must run inline fuel check valve.

WATER PUMP

Steel or aluminum OEM type mechanical pump must be used. Combination

water pump/alternator units are not permitted. Any serpentine, cog, or V-belt

pulley system is permitted.

ENGINE EXHAUST SYSTEM

602 Crate Engine- Beyea P/N AMSST-602NI-3 (1 5/8-inch primary tube 3-inch collector)

The exhaust header flange must mount directly to the cylinder head with no

spacers between the flange and the cylinder head. A maximum header flange thickness of ½ inch is permitted. No Stainless-Steel Headers Permitted.

Inserts are not permitted in any part of the header or collector. Merge, crossover, and pyramid collectors are not permitted.

Exhaust pipes must come out of the engine at cowl and must extend a minimum of six (6) inches past the cowl. Right exhaust pipe may run beneath the car but must turn down and out toward the bottom of the right-side frame rail.

Mufflers optional.

Thermal wrap is not permitted anywhere on the exhaust system. Only one exhaust pipe and muffler (if used) allowed per side.

Exhaust system subject to approval by EMRP Officials.

Interior coatings are not permitted.

Exterior coatings other than paint are not permitted. All other coatings including powder coatings are not permitted.

ENGINE DRIVE TRAIN – FLYWHEEL AND CLUTCH, STARTER (602 Crate)

Will Allow minimum clutch size of 7.25, must run 153 tooth flex plate with engine block mounted starter.

BELL HOUSING (602 Crate)

Only a commercially manufactured magnetic steel bell housing may be used. The bell housing must enclose the flywheel 360 degrees with a minimum 3/16-inch magnetic steel. Any modifications you make to the bell housing must be done with 3/16-inch steel and welded in place (no bolt on pieces). A commercially manufactured bell housing (like the Quarter Master #008110440)

with a bolt-on bottom cover may be used. An opening no larger than 3 ½ x 4

inches may be used for throw out bearing access. This hole may be covered with sheet metal.

TRANSMISSION- (REFER TO ROC RULE PACKAGE)

Optional transmission Package (602 Only) – Bert LMZ or Falcon P/N WIN 60100

TIRES

The track tire will be the American Racer EC---31 10" slick tire (26.5/10.0---15S on the left, and 27.0/10.0---15S on the right). Tires may only be purchased through EMRP.

TIRE ALLOTMENT PROGRAM

At practice date, Competitors will be able to purchase up to eight (8) new tires from Speedway inventory (any position).

As of Opening night, only one (1) tire (any position) may be purchased per week for the remainder of the season. The above tires will be scanned and recorded into Speedway database for each competitor. It is the competitor's option to use the newly purchased tire or save it for use at a later race date.

If a new tire is damaged, the tire will be inspected and deemed either usable or unusable. If the tire is found to be unusable, a new tire will be granted to the competitor.

*Note to above damaged tire – a new tire will NOT be granted if the tire is damaged on the racetrack. In the case of tires damaged during racing, a replacement tire will come from the competitor's pre-scanned inventory.

TIRE BANK– each competitor will have the opportunity to have up to twelve (12)

new or used track---purchased tires in their tire bank. Each tire purchased will be

scanned into the competitor's database. As tires are used from tire bank, other

EMRP track---purchased tires can be added to the tire bank with the removal of a

worn or damaged tire. It is the competitor's responsibility to let EMRP Tech Officials know when tires are being replaced in their tire bank.

Practice tires : Practice tires can be purchased at any time during the season for PRACTICE ONLY.

WHEELS

Any 10"-13" steel wheel permitted. Any offset

permitted. Track width shall be 84" maximum.

Wheelbase will be 106"-107", +/- 0.5".

PHYSICAL REQUIREMENTS

Minimum circumference of the right rear tire @ 20 psi is 84".

Minimum tire pressures for all inspection purposes are ten (10) psi for both left side tires and fifteen (15) psi for both right side tires. Air may be added to the tires to

achieve only the minimum tire pressures during inspections, per an EMRP provided tire pressure gauge.

NOTE: A participant competing in any race at EMRP specifically agrees that he/she acknowledges it is illegal to soak or treat racing tires and that said soaking or treatment of racing tires is against EPA regulations and further contains carcinogens and hazardous material which are unfit for his/her health and the health of all competitors and spectators. Any participant found violating the rule is subject to suspension.

COIL OVER SHOCKS

ROC Rules apply with the following exception:

There will be a maximum "racer retail" price per shock absorber, per corner of the car of \$250.00.

The shock absorber will be searched by part number in three catalog locations and the mean price of the shock absorber will be used to determine the overall "racer retail" price of the shock absorber.

A shock absorber claim rule will be in effect for all shock absorbers. The claim will be \$200.00 per shock absorber claimed.

No coil binding, bump stops or travel limiting devices allowed.

EQUILIZATION RULE

EMRP reserves the right to exercise an equalization rule at their discretion. Each time a team wins a feature, 25# must be added to the race car. After the third race, 25# may be removed

NOTE – Competitors are solely and personally responsible for the safety of their race cars and racing equipment and are obligated to perform their duties (whether as a car owner, driver, or crew member) in a manner designed to minimize to the highest degree possible to risk of injury to themselves and others.

REMINDER: ANYTHING not specifically addressed in the rules – or any deviation from the above rules – MUST be cleared with and approved by EMRP Officials PRIOR to acceptance. We can be reached by phone at (315-658-8019) or on a message through evansmillsracewaypark@yahoo.com our Facebook page.