

Rockcastle Speedway

602 Modifieds

Rockcastle Speedway 602 Modifieds are a class that combines door to door racing with budget in mind. This 602 Class will be built on rules and specs that will keep the cars competitive throughout the field allowing the talents of the racers to be showcased.

If any rules are deemed as a competitive advantage that was not identified, Rockcastle Speedway Officials reserves the right to review and alter rules in order to keep this class as intended.

Engines: GM part number 19258602 or 88958602 are the only engines that will be permitted to participate in the class.

1. All engines and parts must be as from factory and all components thereof. All engines are to remain sealed from the factory. These engines are sealed at the intake manifold, cylinder heads, front cover, and oil pan with special GM twist-off bolts or with the cup style seals.

2. Any "unauthorized" changes will result in disqualification, no points, fines, and other possible penalties including, but not limited to, being barred at the tracks discretion. This includes, but is not limited to, harmonic balancers, valve springs, push rods, rocker arms, aftermarket valve covers etc. Tampering, removal, or modifications of any type and/or broken, tampered factory seals will not be permitted and will result in immediate disqualification from the event.

3. The only exception will be if a repair or rebuild is required. The repair/rebuild must be repaired or possibly rebuilt per the guidelines set forth in the GM Technical Manual #88958668 or any subsequent revision of this manual. Crate engines must not be altered, modified, or changed from factory specs.

4. Engines MUST be sealed in all of the above stated locations with either the original New GM seals, ACAS (say All-Stars) Seals (Blue), GM Twist off bolts, Crate Racing yellow (gen III seals), FASTRAK seals, SECA seals, or Nesmith Crate racing gen IV (green), gen V (black) seal tags, RUSH and UCRA std. Any other series seal that allows no changes within the bolts may be considered legal. (No RM, UCRA .020, counterfeit or eBay bolts will be allowed.) Any parts found illegal will be kept and destroyed.

5. The sealed engines must remain intact and not be tampered with; any seals that have been tampered with, removed, modified, and/or broken will make the engine illegal and result in immediate disqualification from the event (loss of points and money). The engine may be impounded immediately for further inspection. Modifying any internal engine parts or changing the parts from stock as delivered sealed from the factory will result in disqualification for the night's event (loss of points and money).

6. The permitted GM factory sealed crate engines must not be altered, modified, or changed from the GM specifications in the GM Technical Manual #88958668 or any subsequent revision of this manual; no changes at all are allowed to the engine - intake, manifold, valve covers, heads, front cover, oil pan, harmonic balancer, or any other part or parts on or in the engine.

7. We will allow Clevite P series rod, main and cam bearings. Aftermarket valve cover gaskets and breathers will be allowed.

Engine Placement: Engine bell housing flange shall be at least 72 inches forward from the center of the rear axle. The engine offset must remain within 2 inches of the centerline from the cross member. The minimum engine height when measured from the ground to the center of the crankshaft is 11 inches.

Engine Protest Rules:

1. Top 5 main event finishers may protest any Top 5 finisher in front of them. The protested driver may counter protest within 5 minutes of being notified of protest. All protests must be made to officials by the driver. Driver must have cash in hand. Claim fee must be paid within 5 minutes of protested car crossing scales.

2. Engine Claim Rule: Drivers may claim another's GM 602 for \$8,200. When claiming an engine, the driver will only receive it as delivered from GM with no accessories, distributor, wires, carburetor, pumps etc. Engines must be available from GM for a claim to be allowed.

3. Engine Dyno Protest Rules: The protest fee is \$1,500. The winner of the protest receives \$600. The engine dyno shop will receive \$400 and the track will receive \$500. The engine dyno shop used for a dyno protest will be selected by Rockcastle Speedway. If the engine does not dyno within the set GM numbers, it will be considered illegal. If the engine is found illegal, the protester will receive their money back, and the protested driver will have to pay the \$1,500 fee to get the protested engine back. In the case of a full engine protest, the track representative will claim the entire engine and meet at a selected technical inspector's business at the appointed inspection time. Rockcastle Speedway may decide to pull any engine for dyno at any time at the owner's expense. If an engine dynos out of the appointed specs the driver may pay \$1,000 to have his/her motor torn down. If the motor is found correct the driver will receive the \$1,000 back. This MUST be paid in cash. If a driver is found to be cheating a \$3,000 fine will be levied on the driver, and the driver will be banned from competition for the remainder of the calendar year. The \$3,000 fine will be paid in addition to the \$1,200 fee to get the engine back, both fees must be paid before the engine is returned. Suspension may be levied against the driver and/or car owner. Failure for a representative to show up at the appointed dyno time is an automatic disqualification. Failure for a protesting competitor to attend the dyno, will result in the protesting driver forfeiting the dyno. Prize money for the night will be held until results of dyno are concluded.

Engine Head Tech: Engine head cannot be altered in any way from stock.

Intake Manifold Tech: Intake Manifold cannot be altered in any way from stock.

Valve Spring Specifications: No PAC Springs

Valve Spring Protest: Protesting of the Valve Spring is \$200.
(Valve Spring Penalties based on 365-day period from time of infraction.)

1st Offense: \$200.00 fine, loss of points, loss of prize money, and 25-point deduction to year end points total.

2nd Offense: \$350.00 fine, loss of points, loss of prize money, and 50-point deduction to year end points total.

3rd Offense: \$500.00 fine, loss of points, loss of prize money, and suspension to be set at Rockcastle Speedway's discretion.

Valve Spring Specifications – Old (non-beehive)

Description	88958602
Valve Spring P/N	10212811
Valve Spring P/N -set of 16	n/a
Diameter (+/- .010")	1.250"
Free Height (+/- .015")	2.021"
Installed Height (Ok to shim to proper height)	1.70"
Pressure @ Installed Height (+/- 5 lbs)	80 lbs.
Open Height	1.270"
Open Pressure (+/- 10 lbs)	195 lbs
Coil Bind	1.20"
Wire Diameter	.177"

Weight: Car and Driver minimum 2400 lbs (No burn off weight break)

1. The top 5 cars will weigh after each feature before going to victory lane or the trailer. If a driver chooses to weigh outside the top 5 and is light, he will be disqualified.
2. Before qualifying every car must cross the scales. The top three must cross after the heat.

Carburetors: One Holley style four barrel carburetor only. No superbows. The engine must be naturally aspirated through the hood of the car.

1. Carb spacers (must be flat on top and bottom) - 1" spacer maximum with a .040 tolerance
2. One gasket per surface .070 maximum.

Transmission: Bert, Brinn, or Falcon type transmissions allowed. It must have a working clutch with forward and reverse gear. Drive shafts should be painted white with car number. This is a safety issue! Drive shaft loop is highly recommended. Air shifters not allowed. Carbon fiber, aluminum, or steel drive shafts permitted.

Fuel: NO METHANOL. E-85 allowed. Exotic versions of E-85 are not allowed, for example, C85 from VP.

1. Fuel and Motor Oil tests may be performed during post-race tech or sent to the labs for testing. Any suspicious fuel or motor oil will then be sampled, and lab tested. Additives that will be tested for but not limited to are nitromethane, propylene oxide, alcohol (all types), aldehydes, aminobiphenyl, benzene, borane, benzidine, beryllium compounds, bromine compounds, butadienes, chlorinated compounds, chromates, dioxane, MTBE, ethyl acrylate, ethylene oxide, hydrazine compounds, dioxane, methylenedianiline, naphthylamine, nitrogen compounds, styrenes, toluidine, and xylidine. Any of these compounds that are not included in fuel claimed or in correct amounts matching benchmarks will be deemed illegal.

2. Fuel protests cost \$150 and will be sent to the lab. Motor Oil protests cost \$200 and will be sent to the lab. See tire penalties below. The same penalties will apply to fuel or motor oil found to be wrong. Prize money for the night will be held until results are concluded.

3. Fuel Systems: Mechanical fuel pumps only. No electric fuel pumps or reverse mount fuel accessories of any type will be allowed. No nozzles, etc. may be connected to the fuel system at any point. Only one fuel system per car is permitted.

4.No reverse mount accessories permitted of any sort. Including but not limited to fuel pump, power steering pump, or alternator.

Evacuation Systems: Evacuation systems are not allowed. This means any type of vacuum system; includes vacuum from that of breather system and/or any other means of pressure evacuation from crankcase.

Oil Pump/Pressure: Oil pumps must be as they come from the factory with the correct engine/oil pump combination. The original stock GM spring may not be altered from the factory with no additional shims. Wet sump only. No external oil pumps (even if considered "wet"). Remote oil filters and lines are NOT permitted. Lifters may not be altered in any manner and must be as they are from the factory.

Distributor: No crank trigger, no distributor-less multi-coil, no magneto systems, also no traction control devices are allowed. HEI DISTRIBUTOR ONLY- NO MSD BOXES

Starter: Cars must all have a starter that is in proper working order.

Water Pumps: Water pumps may be cast iron or aluminum. No electric water pumps or fans will be permitted.

Headers: Collector type headers are required. You must have four tubes into one collector. No merge collectors. No tri-y headers. No stainless headers. 1- 5/8" maximum primary tube diameter.

Exhaust: Mufflers are permitted as well as recommend

Brakes: All cars must have operational 4-wheel braking systems. An electric or manual proportioning valve is permitted. Carbon fiber, titanium, or other exotic materials are not legal. Brake rotors must be magnetic. Brake Floaters are allowed

Electronic Devices: No electronic devices thereby enhancing adjustment of a car is allowed.

Traction control is NOT legal.

Remote-control devices are not allowed at any time.

No electronic devices controlling shocks are allowed.

Exotic materials (titanium, carbon fiber, tungsten, etc.) are illegal.

Carbon fiber drive shafts are legal (for safety purposes).

No electronic devices that transmit voice or data are allowed at any time.

Adjustable restrictor plates are not allowed.

No data systems will be allowed. The same penalties that apply to tire infractions will apply here.

No cell phones or any other electronic devices are allowed in the car or on the driver during any racing event. Driver may be inspected after the event during postrace technical inspection

Go Pros or other similar cameras will be the only type of electronic devices permitted at all on the car and this is only as long as it doesn't interfere with either the transponder or Raceiver.

Raceivers: It is the driver's responsibility to have a working Raceiver. It is NOT THE RESPONSIBILITY of the track to make sure a driver has working batteries. If a driver's Raceiver is not working or he is not wearing it, he will be put off the track.

Transponders: Any transponders owned by the driver are their own responsibility. If a driver forgets to attach his transponder or it malfunctions, he will not be scored. If a rental transponder from the track malfunctions, he will be scored/allowed to qualify again.

Driver's Compartment Safety: Window nets, gloves, fire suits, and helmets (with fire resistant interior) are required.

1. Seat belts cannot be more than two years old
2. The use of a Hans or Hutchinson (or similar) Device are strongly recommended.
3. Drivers must use a quick release steering wheel.
4. Batteries cannot be in the driver's compartment and must have insulated cable ends or plastic covers to prevent fueling fires.
5. Drivers must have either (1) a working fire suppression system or (2) a working fire extinguisher within reach of the driver. ROCKCASTLE SPEEDWAY STRONGLY ENCOURAGES THE USE OF A FIRE SUPPRESION SYSTEM
6. A master cut off switch, within reach of the driver, for the car is required.
7. A full containment seat is REQUIRED

Wheels: Bead locks mandatory on Right Rear. Optional other 3 corners.

1. Wheel Covers are permitted.
2. Only 8 inch Dirt car labeled and approved racing wheels will be permitted.
3. Wheels must not weigh over 30 pounds
4. Wheels must be magnetic steel.
5. Wheel spacers are permitted.
6. No exotic or heavy metals permitted.

Tires:

1. Left & Right Front: AR Hard/Xtra Hard and Stocker. Hoosier M30/M60
2. Left & Right Rear: American Racer Stocker Hards ONLY

Grooving and siping is NOT permitted on rear tires. No chemical alteration. Durometer will be spot checked and suspicious tires will be sampled.

3. Tires may be inspected at any time (numbers, specs, altering, etc.). All tires must have shoulder plates. Tires may be checked by independent lab for treating and other alterations. Tires not conforming to the manufacturer's benchmark will be deemed illegal.

4. Rockcastle Speedway reserves the right to alter tire rules for the standpoint of SAFETY AND TIRE AVAILABILITY from manufacturer. Softening, conditioning, and tires not conforming to manufacture's benchmark are illegal. There are NO appeals and the lab results are FINAL. Prize money for the night will be held until results are concluded.

Protesting of the Tire is \$125 and must follow the same procedures as protesting an engine. Penalties based on 365-day period from time of infraction.

1 st Offense: \$300.00 fine, loss of points, loss of prize money, and 50-point deduction to year end points total.

2 nd Offense: \$500.00 fine, loss of points, loss of prize money, and 50-point deduction to year end points total.

3 rd Offense: \$1000.00 fine, loss of points, loss of prize money, and suspension to be set at Rockcastle Speedway's discretion.

Springs: Only coil springs will be allowed. No pneumatic springs, hydraulic springs, or air springs will be allowed.

1. Coil springs must be made from magnetic steel.

2. Stacked springs are NOT allowed.

3. Progressive springs are NOT allowed.

4. Spring preload adjustments for coil springs must be made using mechanical adjusting nuts. No air dumps or hydraulics.

5. Other than spring damping by the shock absorber, pneumatic, hydraulic, or electrically controlled adjusting devices, (static or dynamic) that affect spring preload or race car heights will not be permitted; air dump devices are not allowed.

6. Spring rubbers are NOT allowed.

Bump Stops: Bump stops are NOT permitted. Bump springs are NOT permitted. No pneumatic or hydraulic bump stops will be permitted.

Shocks: One shock is allowed per wheel. The shocks must be mounted vertical to the axel tube, not horizontal. Shocks must be made of magnetic steel.

AFCO 1400 series shocks ONLY. Steel crimped/spun tube top and bottom, non-adjustable, non-rebuildable shocks.

NO altering/modifying/revalving or changing of shock in ANY MANNER.

NO shock extensions permitted.

NO cockpit adjustment is permitted.

NO remote adjustment of shocks is permitted, including electronic adjustment of any kind.

1. Shock absorbers cannot contain any internal spring that functions as a load bearing suspension spring, internal coil bump spring above or below the working piston, nor internal bump stop of any kind.

2. Shock covers are permitted, but they must be removed for tech inspections.

Shock Protest: Visual Protesting of the Shock is \$50 per shock you wish to protest. You may choose the shock you are protesting. Any driver from top five in qualifying or the feature may protest any driver in front of them. Protest must be paid with cash in hand within five minutes of qualifying times being posted or within 5 minutes of the time post-race tech starts after the feature event. If shock is found to be legal the protested driver will receive \$25, and the track will retain \$25. Protested driver will remove the selected shock and tech officials and protesting driver will visually inspect the shock. If shock is illegal track will confiscate the shock and \$50 will be returned to protester.

If before start of feature: Protested driver will start tail of feature with forfeit for \$50 of end of night's winnings. If after feature, driver will be DQ'd and forfeit prize money and points for the night. Multi visual shock offenses of any shock will result in DQ and may include in suspension or barred from track at the discretion of Rockcastle Speedway. Prize money for the night will be held until results are concluded.

Shock Dyno Protest is \$100 per shock you wish to protest. Refer to Visual Shock Protest on procedure of protest. If the shock is found legal the protested driver will receive \$50 and the track will retain \$50. If shock is illegal, the track will confiscate the shock and following penalties will apply:

Shock Penalties based on 365-day period from time of infraction

1st Offense: \$500.00 fine, loss of points, loss of prize money, and 25-point deduction to year end points total.

2nd Offense: \$1,000.00 fine, loss of points, loss of prize money, and 50-point deduction to year end points total.

3rd Offense: \$2,000.00 fine, loss of points, loss of prize money, and suspension to be set at Rockcastle Speedway's discretion.

Prize money for the night will be held until the results of dyno are concluded.

Rear Ends: Any standard quick-change rear end. No open type (sprint car) rear ends are allowed.

1. Rear suspension: 4 bar, swing arm, 3 link, etc rear suspensions allowed. No spring rods allowed. One shock per wheel. **SOLID PULL BAR ONLY**

Chain limiters are permitted on left rear only. Solid chain only no spring dampener

Transponder Mounting: Bottom of Right Rear axle tube.

NO spoilers will be permitted

Body rules will follow DIRTcar UMP Modified specifications except for the above mentioned No spoiler rule.

Any rules or specifications not addressed above will follow DIRTcar UMP Modified Rules.

In the event of any protest or claim, Rockcastle Speedway reserves the right to hold prize money until results are concluded.

RULE BOOK DISCLAIMER

1. The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events and by participating in these events, all participants are deemed to have complied with these rules. No express or implied warranty of safety shall result from publications of or compliance with these rules and/or regulations. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator, or official.

2. The race director shall be empowered to permit minor deviation from any of the specifications herein or impose any further restrictions that in his opinion do not alter the minimum acceptable requirements. No expressed or implied warranty of safety shall result from such alteration of specifications. Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is FINAL

WE RESERVE THE RIGHT TO MAKE REVISIONS TO RULES, IF NEEDED !