

2020 New Egypt Speedway Street Stock Division Rules

I. General

- A. The New Egypt Speedway Street Stock class is intended to be a low budget/entry level division. The intent is to keep costs low by using Street vehicles as the basis for a race car, with modifications allowed only for safety, reliability, and moderate, cost effective performance gains. Frames may be factory production or fabricated. Fabricated frames must be made out of square or rectangular tubing only and must reasonably resemble a factory OEM frame. No tubular frames or frame parts.
- B. No station wagons, pickups, four-wheel drives, or convertibles
- C. Minimum wheel base 108 inches
- D. Doors must be welded or bolted shut.
- E. All glass and chrome trim must be removed.
- F. Per NJ state law, full containment seats are mandatory. Securely mounted to roll cage, not the floor.
- G. Heavy mesh screening to replace windshield.
- H. Five (5) point racing harness mandatory. Two (2) year rule as per NJ State regulations.
- I. Two (2) tow hoops, one in front and one in rear.
- J. Battery must be covered and securely mounted.
- K. New Jersey style fuel cell with (3) mounting straps. Must be securely mounted to frame. Twenty-two (22) U.S. gallons maximum capacity.
- L. Driver's side window net mandatory. Fuel shut off valve and master battery disconnect switch within drivers reach and clearly marked on/off are mandatory.
- M. Steel brake lines are mandatory.
- N. Six (6) point roll cage is mandatory. Minimum three (3) bars on each side. Cage must consist of 1-1/2 OD tubing, mounted and welded to the top of the frame. Tubing must have a wall thickness of no less than .095 (.120 recommended). Vent window bars are recommended. Driver compartment must be padded with NJ State Mandated High Density SFI certified roll bar padding. Engine loop bars must tie into down tubes on front of cage

II. Frame and Chassis

- A. Per NJ State Law all cars will be required to maintain a minimum of 3 inches head clearance above the seated drivers helmet.
- B. Frame parts may be fabricated out of square or rectangular tubing only All fabricated frame parts must closely and reasonably resemble the factory frame parts. All spring mounts, shock mount and rear end mounts must be in stock location and wheelbase must remain minimum 108 inches. No tubular frame or chassis parts.
- C. Suspension must be original suspension that matches type of car being used. IE, leaf spring suspension on Camaros, Coil spring suspension on Monte Carlos, etc.
- D. Must be original stock type, mounted in stock position.

E. Only OEM lower control arms are permitted, after-market or OEM upper control arms are permitted

- F. Mechanical, screwed type weight adjusters are permitted on the front of all cars and the rear of coil spring rear suspension cars. Leaf spring cars can have variable hole front leaf spring mounts and variable hole, variable length rear spring shackles. No adjustments can be accessible by the driver while seated in the driver's seat except for brake bias. Leaf spring sliders are allowed. Coil cars may use stock OEM or fabricated upper and lower rear control arms and may be adjustable to adjust pinion angle. Leaf spring cars may use wedges to adjust pinion angle. No electric or hydraulic forms of adjustment or devices which make adjustments to any chassis components while the car is in motion and must always maintain the minimum 108 inch wheel base. Coil cars are permitted to add a panhard bar on the left side only.
- G. Racing springs are permitted.
- H. After market, steel body, welded bearing, non adjustable shocks are permitted. Shocks must be mounted in stock location in rear and either inside or outside the springs in the front.
- I. All cars must have four wheel brakes in good working order at all times.
- J. Brake adjusters are permitted in cockpit.
- K. Engine must be centered in frame. The forward most spark plug on the left (drivers side) of the engine can be no further back than the centerline of the upper ball joint on the same side.

III. Transmission and Rear End

- A. Manual or automatic transmissions are permitted. Any OEM cast iron or aluminum transmissions or after market replacement. All transmissions must have at least three (3) working forward gears and one reverse. No internal clutches. OEM type clutch assembly only. Consisting of one full size cast iron flywheel, one OEM type pressure plate, one OEM type clutch disc and one mechanical or hydraulic release bearing only. Minimum clutch diameter 10---1/2 inches. No 10,000 RPM CLUTCHES. "Automatic transmissions must have working torque converter, no on/off valve engaging transmission into gear is permitted." Minimum 2x3 inspection hole in top of bell housing mandatory. Inspection hole must be easily accessible for tech officials.
- B. Factory OEM or aftermarket rears are permitted. Ford nine inch are permitted in all cars. NO QUICK CHANGE REARS.
- C. Locked rears are permitted. (Welded or mini spools)
- D. NO ALUMINUM SPOOLS.
- E. Posi-traction rears are permitted.
- F. Steel drive shafts only. No aluminum, titanium, or carbon fiber allowed. Drive shafts must be painted white. Two (2) drive shaft loops are mandatory, one in front and one in rear. Must be 360 degrees (steel only). NO CHAINS.

- G. ALL REAR ENDS WHICH USE INTERNAL C---CLIPS TO RETAIN THE AXELS MUST BE REPLACED WITH A C---CLIP ELIMINATOR KIT. THIS IS A MANDATORY SAFETY FEATURE AND WILL BE STRICTLY ENFORCED. CONTACT NEW EGYPT SPEEDWAY TECH OFFICIALS FOR DETAILS.
- H. Factory OEM or aftermarket steel or aluminum spindles and hubs are permitted. No titanium, carbon fiber or other exotic materials are permitted. Wide five are permitted.

IV. Wheels and Tires

- A. Any 70 series DOT approved passenger car tire.
- B. No truck tires.
- C. New Egypt Speedway stamped American Racer Tires optional. There is only one tire compound in this division.
- D. Tires may be grooved.
- E. Eight (8) inch rims with bead lock are permitted.
- F. A maximum of eight (8) inches of tread width.
- G. Right front wheel may be reinforced. (recommended)
- H. Large lug nuts are mandatory.
- I. Minimum ½ inch wheel studs are recommended.
- J. Minimum right side tire pressure 12 PSI.
- K. Only foam pillow type mud plugs are permitted on right side of car.
- L. The use of air bleeders is permitted.

V. Body

- A. Bodies must remain stock appearing. Factory OEM or aftermarket or fabricated body panels. Steel or aluminum are permitted. Fabricated body parts must reasonably resemble factory OEM body panels. No flat sided bodies and no late model style bodies are permitted.
- B. Aftermarket OEM style noses and tail pieces are permitted. No late model style noses.
- C. Fiberglass hoods and roofs are permitted.
- D. All cars must have an OEM or fabricated firewall front and rear which completely shields the driver from the engine compartment and the fuel cell/trunk area.
- E. All cars must have a full floor pan either factory or fabricated which goes completely from the front to rear firewalls and completely left to right so as there is no part of the driver's compartment exposed to the race track below. Sheet metal work inside the driver's compartment is permitted to shield the driver from exhaust parts and fuel lines. No exhaust parts or fuel lines may pass through the driver's compartment.
- F. The fuel cell area must be covered in the rear and can not be exposed.
- G. Rear spoilers are permitted. Factory or OEM. Maximum height four inches. Spoiler can only go across the back of the car and can not wrap around the sides

- H. All cars must have a sturdy, well secured front and rear either factory OEM or fabricated bumper. Bumpers shall not be constructed in such a manner as to be used as a weapon or “battering ram”.
- I. Single rail tubular round side bumpers or nerf bars are recommended. 1---1/2 inch max tube diameter and can not stick out past the outside edge of the tires. Ends must be turned in toward the body so as to not have any sharp or blunt ends.

VI. Engine

- A. It is highly recommended that all Street Stock engines be sealed by New Egypt Speedway tech officials at the time of assembly. This is meant to eliminate unnecessary teardowns at the race track. Contact New Egypt Speedway tech officials for sealing information.
- B. BLOCK--- Any cast iron OEM production or aftermarket stock replacement block. No aluminum, or performance blocks allowed. All markings and/or numbers must remain on block for identification purposes.
- C. HEADS--- Any cast iron OEM production heads that were available on an assembly line vehicle, or World Products SR series heads with casting ID #I---052 or I---058 and part number 043600, 043610, 043640, 043650 or exact aftermarket copies of OEM Vortec heads are permitted. No aluminum or performance heads allowed. No angle plugs. All heads must maintain stock valve guide angle. Maximum valve head diameter 2.020 intake and 1.600 exhaust. This is an unported class. All heads must remain in factory condition with no modifications. No modifications means--- No sandblasting, bead blasting, acid dipping, porting, port matching, gasket matching, polishing, welding, or epoxy. No relieving or unshrouding of the valves in the combustion chamber. No hand grinding, sanding, blending, or deburring. Inspection will be conducted with the head on the engine, but the method of checking may require the removal of the intake and exhaust manifolds. Heads will be removed only to surrender to any New Egypt Speedway official for appeal or protest and to visually inspect for any modifications. Stock diameter valve springs only. Screw---in rocker studs and guide plates are permitted. No angle milling. Straight millings of the cylinder heads to increase compression ratio is permitted, however, these engines will be limited to a maximum compression ratio of 10.5 to 1. No titanium or carbon fiber engine parts of any kind are permitted for valve keepers/retainers and locks. All markings and/or numbers must remain on heads for identification purposes.
- D. CONNECTING RODS: Any factory production or aftermarket cast iron or forged solid steel connecting rod. No aluminum, titanium, polished, or billet. OEM rod length only.
- E. CRANKSHAFT: Any factory OEM crankshaft or cast iron or forged steel aftermarket replacement. All crankshafts must maintain OEM dimensions. No knife edging, narrowing, or cutting down the diameter of the crank counterweights. No

machine work to be done to crank counterweights or journals with the exceptions of normal balancing and resurfacing procedures. No light---weight cranks. Only stock---type engine bearings allowed. No roller or needle bearing engine bearings permitted. Bore and stroke combination must remain stock for the engine being used. Maximum cubic inches 362.

- F. PISTONS: Any brand three ring flat top or dished aluminum pistons only. No coatings of any kind are allowed. Zero deck height. No part of piston can extend above the block. Maximum compression ratio 10.5 to 1.
- G. VIBRATION DAMPENERS: Any steel or cast iron stock type OEM vibration dampener is permitted. No aluminum, fluid, or friction dampeners are allowed.
- H. CAMSHAFT: No roller cams, roller or mushroom lifters or lash caps allowed. Camshaft may be of any brand. Only hydraulic or mechanical/solid flat tappet type camshafts permitted. Camshafts and lifters must be solid steel or cast iron construction only. No titanium, ceramic, or other exotic materials permitted. Camshaft must be located in factory position in block. Stock type and size cam bearings only. No roller or needle bearing cam bearings permitted. Lifters and lifter bores are to remain stock in diameter and are to remain in stock location within block. Sleeving of the lifter bores to compensate for wear is permitted. Stock type timing chain or gear drives only are permitted. No belt drives or devices with external camshaft timing provisions are allowed. Roller rocker arms are permitted. No shaft type rocker assemblies are permitted except on engines that came from the factory with shaft type rocker assemblies. Stud girdles and aftermarket rev kits are prohibited. Engine must pull a minimum of 14 inches of vacuum at 1,000 RPM.
- I. INTAKE MANIFOLD: Any stock OEM cast iron production manifold that was used on an assembly line car, truck or boat is permitted. Marine manifolds are permitted. All casting marks and/or numbers must remain on manifold for identification purposes. No plastic manifolds. Manifold must remain as produced by engine manufacturer. No porting, polishing, welding, epoxy, gasket matching, and/or acid dipping is allowed. An optional box stock as cast aluminum manifold is permitted as follows: Edelbrock Part No. 2101 for '86 and earlier Chevy heads. 2116 or 2104 for '87 and later Chevy vortec style heads with center bolt valve covers. 2181 for Ford 351W; 2176 for Chrysler 318---360
- J. CARBURETOR: A \$300.00 claim and swap rule will apply. Cars finishing in the top 5 ONLY will be subject to claim. The claimer must also be a top 5 finisher of that particular race. When claiming a competitor's carburetor, you must surrender the carburetor that you actually used in this particular race, as well as, the \$300.00 claiming fee. If you wish to claim a carburetor, you must present the tech inspector the fee, carburetor, and a written protest within 10 minutes of the conclusion of the Street Stock feature. The air cleaner and throttle linkage is NOT part of the claim.

The Holley Carburetor Part No. 4412 2BBL is the only acceptable carburetor permitted in the Street Stock division. All carburetors must remain in box stock condition with no modifications except for choke removal.

The only acceptable carburetor spacer is one that adapts a 2BBL carburetor to a 4BBL manifold and shall have a maximum thickness of 1---1/16 inches including gaskets measured from the top mounting surface of the intake manifold to the bottom of the carburetor base plate.

No fuel logs or fuel cooling devices are permitted.

Only one stock type mechanical fuel pump located in stock location on engine is permitted.

Mechanical throttle linkage only. Minimum of two (2) throttle return springs are mandatory.

Billet metering blocks and baseplates are permitted. Main bodies and fuel bowls must remain cast. All carburetors must pass gauges to be legal.

Conventional round type air cleaners only.

Air cleaners that provide ventilation through the top cover (such as K&N brand) are permitted. No air induction plastic carburetor inserts or other devices to direct air into intake. No air diffusers are allowed.

- K. IGNITION: Only stock type battery ignition systems permitted. Use of aftermarket stock type distributor permitted. No external or internal ignition boxes or ignition amplifier permitted except for Ford, which may use an OEM type external ignition box. No MSD or performance type external ignition box. Aftermarket OEM type heavy---duty replacement ignition modules and coils are permitted. No Crank trigger ignition systems. No traction control devices of any kind are permitted. All cars in all divisions shall have a mandatory master disconnect switch, which shall disconnect any and all electrical functions of the race car. This switch shall be mounted in the area where the "A" pillar meets the top horizontal bar on the left "drivers side" of the roll cage. This switch shall be painted red and clearly marked ON/OFF and must be accessible from the outside of the race car.
- L. LUBRICATION SYSTEM: Stock OEM type wet sump oil system only. Must be in steel oil pan on bottom of engine. Oil pan must have 1 inch inspection hole in left side. No dry sump systems or external oil pumps allowed.
- M. COOLING SYSTEM: Water pump must be stock OEM type. Aluminum or cast iron permitted. Heavy duty aftermarket pumps are permitted. Radiator fan must be steel or aluminum only. No electric cooling fans or pumps. Aftermarket aluminum radiators are permitted.
- N. FUEL: Although not mandatory, it is highly recommended that the fuel be purchased from New Egypt Speedway. The baseline fuel used for our testing will be the fuel that is sold at the track on that particular day. When track fuel is not

used by a competitor, the track is not responsible for any disqualification for a “dirty” fuel test. Racing gasoline or commercial available 94 octane pump gasoline only may be used. No E85 or other exotic fuels permitted. Commercially available pump gas or racing gasoline only. No top lubes, performance enhancements additives, or any other kind of additives are permitted.

- O. EXHAUST: Headers permitted & Crossover Headers are permitted, maximum primary tube size is 1---5/8 inches. No part of the exhaust system from the header flanges throughout the entire exhaust system shall exceed 3 inches. Minimum 12 inch long tail pipes are required. Mufflers mandatory. 3---inch maximum exhaust diameter.

The use of a New Egypt Speedway sealed GM Crate 602 engine will be allowed in the Street Stock division of New Egypt Speedway with a 650 cfm, gauge legal, cast or billet 4bbl carburetor

II. Engine Specifications

NEW EGYPT SPEEDWAY ALLOWS THE USE OF A SEALED GM 602 CRATE ENGINE IN THE STREET STOCK DIVISION. IT IS MANDATORY THAT ALL CRATE ENGINES BE PURCHASED AND SEALED BY NES. CERTAIN EXCEPTIONS IN CERTAIN SITUATIONS CAN BE MADE. CONTACT TECH OFFICIALS FOR DETAILS. ALL ENGINES MUST REMAIN AS DELIVERED BY GENERAL MOTORS INCLUDING HARMONIC BALANCER, DISTRIBUTOR, VALVE COVERS, SPRINGS, ROCKER ARMS, SEALS, ETC. IT IS STRICTLY FORBIDDEN TO TAMPER WITH THE FACTORY AND/OR NES SEALS IN ORDER TO GAIN ACCESS TO THE INTERNAL WORKINGS OF THE ENGINE. ANYONE CAUGHT TAMPERING WITH THE FACTORY AND/OR NES SEALS SHALL IMMEDIATLY HAVE THEIR ENGINE CONFISCATED BY NES, FINED \$500.00, HAVE THEIR NES LICENSE SUSPENDED FOR NOT LESS THAN ONE YEAR, AND BE STRIPPED OF ALL POINTS ACCUMULATED UP UNTIL THE TIME OF THE INFRACTION.

THESE ENGINES ARE CONSIDERED TO BE NON---REBUILDABLE AND NON---REPAIRABLE. IN THE EVENT THAT AN ENGINE SUSTAINS INTERNAL DAMAGE OR WEAR THAT REQUIRES THE REMOVAL OF ONE OR MORE SEALS, THE ENGINE IS THEN SAID TO HAVE SERVED ITS LIFE AND MUST BE DISCARDED AND A NEW ONE OBTAINED.

All bolt on components of the GM 602 Crate motor must remain the same as the open Street Stock motor.

VII. Lettering and Paint

- A. All cars must have four (4) number locations: each door, roof, and rear of the car. Numbers must be minimum 18 inches in height.

- B. Numbers must contrast car color. All paint and numbers must be presentable to the public at all times.

VIII. Weight

- A. The minimum weight for all cars in the Street Stock class is 3200lbs with the driver at the completion of all qualifying races and the feature event with an open street stock engine or 3100 lbs when using a 602 sealed crate engine.
- B. Weight rules are subject to review at any time during the racing season.

All cars are subject to approval and/or disapproval by New Egypt Speedway tech officials on a one by one basis.