



2025 Charleston Speedway

Factory Stock Rules

TO ALL COMPETITORS/PARTICIPANTS

- ❖ Along with the guidelines of the 2025 Charleston Speedway Factory Stock rules, any/all rules as stated in the 2025 DIRTcar Rule Book, shall apply to all divisions.
- ❖ Local track rules pertaining to the racing procedures and/or overall rules that are administered by the local track officials and management, may apply at local tracks in DIRTcar sanctioned events.
- ❖ The following are the 2025 Charleston Speedway Factory Stock rules.
- ❖ All amendments supersede any previous rules regarding any technical article and/or aspect.
- ❖ All competitors, crew members and teams will be expected to comply with the GENERAL RULES of The Charleston Speedway in addition to this set of division specific rules.
- ❖ **THIS CLASS IS TO REMAIN AS CLOSE TO STOCK AS POSSIBLE!**

1.1 Chassis / Frame / Roll Cage

- A. All cars must be stock, as OEM.
 - ❖ Cars must be of sedan type only. Small Cars, Hearses, Station Wagons, Convertibles, Foreign Cars or Commercial Vehicles are NOT allowed.
- B. UNI-BODY cars are allowed but MUST tie the frame together.
- C. Rear frame rails may be replaced, must use 2 inch x 3 inch square tubing after kick up.
- D. Roll cage: full six-point roll cage from center to rear axle must be used, rear loop from frame to frame allowed.
- E. No setback or offset cages allowed.
- F. Minimum of four door bars on the left and three door bars on the right are mandatory. Bars must be made of 1.50 inch O.D. x .095 inch wall thickness tubing.
- G. Minimum wheel base is 108".

1.2 - Body

- A. Cars must have stock appearing steel or aluminum bodies. Station Wagons, Hearses, Convertibles, Foreign Cars or Commercial Vehicles are NOT allowed.



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1.2 - Body(continued)

- B. Floor pans and firewall are required.
 - ✧ Firewall and floor pan must be in stock, OEM location.
 - ✧ Floor pan is to go from the front firewall to front of the rear tires and from door to door.
 - ✧ All holes and notches in the firewall, floor pan, and rear seat panel area must be plated or filled in with steel.
 - ✧ Firewall and floor pan must be same thickness as OEM.
- C. Must have a minimum of three vertical bars evenly spaced 6 inches apart on the driver's side in the windshield location. No glass or plastic.
- D. No mirrors allowed.
- E. All doors must be welded shut.
- F. All flammable materials must be removed (backseat, headliners, etc.).
- G. Must have stock, or stock appearing bumper, or plastic nose piece on the front.
- H. The rear of the car must be completely enclosed. No holes in rear will be allowed.
- I. Cars will be allowed 5 inch tall rear spoiler.
 - ✧ Spoilers cannot exceed the width of the rear deck.
 - ✧ Spoiler brackets must not exceed 5 inches tall.
 - ✧ A maximum of 2 spoiler brackets will be allowed.
 - ✧ Spoiler brackets maximum length is 15 inches.
- J. Hoods are required.
 - ✧ A hole for air cleaner clearance is allowed.
 - ✧ Four hood pins are mandatory.
- K. Tow chains or cables are mandatory for front & rear, and must be EASILY accessible by tow truck operator.
- L. Mirrors of any type are not allowed.
- M. Maximum car width at any point is 72 inches.
- N. Body must be mounted in the stock, OEM location and over all appearance must resemble the type of car being claimed. Example: If you claim it is a Monte Carlo, then ALL of the body MUST look like a Monte Carlo.



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1.2 - Body(continued)

- O. Stock, OEM appearing roof is required. "Late Model/Modified Style" roofs and flat roofs are not allowed.
- P. Front nose must have a minimum ground clearance of 7".
- Q. Minimum ground clearance on the sides is 5".
- R. Hood must be separate from the front fenders, have stock, OEM, "factory" feature lines, and mounted in the stock, OEM location.
- S. Aftermarket nose piece must be stock, OEM in appearance. LATE MODEL, or wedge type aerodynamic noses are not allowed.
- T. Nose/hood rake may be no more than 3". Measurement will be taken from where the hood meets the "windshield", out to where the hood meets the nose, using a "straight edge" device, laid length way on the hood.
- U. Fenders and nose piece must remain tight with the body lines on the car.
- V. Bodies that appear to be wedge shaped, and/or do not have stock contours/shape in appearance are not allowed.
- W. Body panels must follow the configuration, bend, and shape of the stock, OEM body.
- X. Trunk lids must be removable.
- Y. All cars must look professional and appear as close to a FACTORY APPEARING car as released by the OEM manufacturer, as determined by tech officials of The Charleston Speedway.
- Z. Cockpit interior must remain open.
 - ✧ No boxing in or enclosing the cockpit will be allowed.
 - ✧ No closed in cockpits allowed.

1.3 - Appearance

- A. Cars must have an 18"(inch) number on each door and the roof. The roof number shall be oriented in such as way as to be easily read from the grandstands as the car travels past the grandstands.
- B. There must be a 6"(inch) number on the front and rear of the car, easily read by other drivers and officials while the car is on the track.



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1.3 - Appearance(continued)

- C. All numbers and letters must be a contrasting color to the location they are placed so that they are very visible and EASILY read by track officials and fellow competitors.
- D. In the situation of duplicate numbers, track officials may assign a letter to you. It is your responsibility to add this letter to your car on the roof and doors. Failure to do so will cause you to be scored last for your event.

2.1 - Engine

- A. All engines must be stock bore and stroke.
 - ✧ Maximum overbore of .060" for cylinder "clean-up" is allowed.
 - ✧ **360 cubic inch MAXIMUM**
 - ✧ No 400 blocks.
 - ✧ No Siamese blocks.
- B. All engine components must remain stock, unaltered and OEM. All engine components must remain Chevy for Chevy, Ford for Ford, etc.
- C. Flat top or dished pistons ONLY.
 - ✧ Dome pistons are not allowed.
- D. Cylinder heads with angle spark plugs are **NOT** allowed:
Below are aftermarket cylinder heads that are allowed:
 - ✧ Engine Quest (EQ) head CH350I for GM.
 - ✧ Engine Quest (EQ) head CH318B for Chrysler.
 - ✧ Vortec Cylinder heads.
- E. Combustion chambers must remain within 3CCs of stock.
- F. Porting or polishing of any kind is not permitted.
- G. All heads must retain stock valve size.
 - ✧ Intake 1.940
 - ✧ Exhaust 1.500
- H. Single valve spring only.
- I. Guide plates, screw in studs and pin studs are allowed.
- J. Stamped steel rocker arms only. No roller rockers or roller tip rockers.
- K. Poly locks are allowed. Stock steel retainers only.



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2.1 - Engine (continued)

- L. Must use stock, unaltered, OEM, single valve springs.
 - ✧ Valve springs must be stock diameter and height.
- M. No milling or cutting of valve spring seats to allow the use of larger valve springs.
- N. Extensive milling or angle milling is not allowed.
- O. Gear or belt driven camshafts are not allowed.
- P. Camshaft must be hydraulic/non-roller type only.
- Q. Intake manifold may be cast iron or aluminum dual plane
 - ✧ **(NO HIGH RISE intakes)**
- R. 7-quart oil pans are permitted.
- S. Fan shroud is required.
- T. Fuel pump must be mechanical, engine mounted in the stock, OEM location. No electric fuel pumps allowed.
- U. Engine must be mounted in the stock, OEM location.
 - ✧ GM Metric frame, center of fuel pump must be located a minimum of 1.75" in front of cross member, measured where the cross member meets the frame.
 - ✧ Cross member MUST remain in OEM, Stock location, unaltered.

2.2 - Electronics and Ignition Systems

- A. All ignition components must be stock, unaltered, OEM and match the year/make/model of the engine in competition.
- B. Only 12-volt ignition systems will be permitted.
- C. Ignition boxes and/or performance chips and/or any ignition enhancing devices will not be allowed.
- D. Traction controlling devices or traction enhancers of any type are not allowed.
- E. Only one, 12-volt battery securely mounted with both terminals covered will be allowed. Battery is required to be mounted in the trunk between frame rails with minimum 3/8"(inch) hold down bolts.
- F. Starter must be mounted in the stock, OEM location on the engine.



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2.2 - Electronics and Ignition Systems(continued)

- G. Tachometer, oil pressure and water temperature gauge(s) will be allowed.
- H. Data transmitting or recording devices of any type are not allowed. In car cameras such as a Go-Pro type, and others, are allowed.

2.3 - Carburetor

- A. Only one, unaltered, two-barrel, Rochester -OR- one, unaltered, two-barrel, 500CFM, Holley 4412 will be allowed.
- B. Carburetor will be checked with GO/NO GO carburetor tool.
- C. Choke blade and linkage may be removed, but original choke tower must remain intact, unaltered, in stock location; where applicable.
- D. Carburetor adapter plate or spacer will be allowed.
 - ✧ No polishing or altering of the adapter plate will be allowed.
 - ✧ Adapter plate MAXIMUM thickness is 1inch.
 - ✧ Adapter plate MUST remain same thickness across the entire plane of the spacer.
- E. An approved carburetor rollover plate that prevents fuel spillage in case of a rollover is **HIGHLY** recommended. Currently approved rollover plates are as follows:
 - ✧ Willy's Carb & Dyno Shop, LLC – Part # WCD4000SB
 - ✧ Willy's Carb & Dyno Shop, LLC – Part # WCD4002

2.4 - Exhaust System

- A. Headers or cast iron exhaust manifolds are allowed. Exhaust may not come through the hood in any fashion.

3.1 - Transmission & Driveline

- A. Stock, OEM replacement clutch, pedals, and master cylinders are allowed.
- B. Driveshaft loops are to be no more than 12"-inches past the front yolk.
- C. Driveshaft MUST be painted white.
- D. Driveshaft MUST be steel.
- E. Manual transmissions must run explosion proof bell housing.



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3.1 - Transmission & Driveline(continued)

- F. Automatic transmissions must run explosion proof blanket or 1/4"-inch steel scatter shield over converter.
- G. All forward and reverse gears must be operational.
- H. No aftermarket or altered transmissions are allowed.
- I. Only 12" torque converters are allowed.
- J. Mini type clutches and/or couplers are not permitted.
- K. Transmission coolers in the driver compartment are not permitted.
- L. Stock, OEM 10bolt, 12bolt, and 9"(floater) rear axle housings are allowed.
- M. Locked rear ends are required. No limited slip differentials.
- N. Trailing arms must remain stock, OEM length; with stock, OEM bushings.
 - ✧ Lower trailing arm mounting location can be no lower than 3.5" below the bottom of the rear axle tube.
- O. Traction controlling devices or traction enhancers of ANY type are not allowed.
- P. Cambered rear axles are not allowed.
- Q. Weight jacks are permitted on the rear axle. Shackles and lowering blocks will be allowed for leaf spring cars ONLY. Mono leaf spring is not allowed.

4.1 - Weight

- A. Minimum weight, with driver, at the completion of on track activity is 3200 pounds.
- B. Removable weight is allowed.
- C. Weight must be painted white and securely mounted with a minimum of two, 1/2 inch diameter, Grade 8 bolts.
- D. Weight must be clearly marked with your car number.

5.1 - Fuel Cells and Fuel

- A. Cars must have a full firewall between fuel cell and driver.
- B. Fuel cell can hang no lower than 4" below rear frame rails.



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5.1 - Fuel Cells and Fuel(continued)

- C. Must use a racing type fuel cell in a steel can. Rollover check valve is mandatory on/in the fuel cell. Stock, OEM fuel tank **MUST** be removed.
- D. Fuel cell must be firmly secured by 2(two) over the tank straps, minimum 1/8"(inch) thick x 2"(inch) wide steel.
- E. Fuel lines in the drivers compartment **MUST** be inside of steel tubing.
- F. Pump gas, racing gas or E85 only.
- G. Alcohol, nitrous oxide, nitrous methane, propylene oxide, performance additives or any other type of fuels is **NOT** permitted.

6.1 - Wheels and Tires

- A. Steel racing wheels with a maximum width of 8 inches are allowed.
 - ✧ Aluminum, magnesium, mag-type and/or homemade wheels are not allowed.
- B. Any five-lug, OEM pattern is permitted.
 - ✧ Must run 9/16 inch minimum studs with 1 inch lug nut.
- C. Radial, DOT, Street Type tires are required.
 - ✧ An 8 inch maximum tread width is allowed.
 - ✧ Hoosier, American Racing, McCreary, Racing Type, Mud, Snow, AT(All Terrain), and Recap tires are not allowed.
 - ✧ Grooving of tires is **NOT** permitted.
 - ✧ Siping of tires is permitted.
- F. Bead lock wheels are permitted on the right side only.
- G. **ONLY** Approved wheel discs/wheel covers are allowed.
 - ✧ Approved wheel discs/wheel covers will be fastened to the wheel using a minimum of three, 1/4 inch or 5/16 inch diameter magnetic steel hex head bolts.

6.2 - Brakes

- A. Minimum 3 wheel brakes are required.
- B. Dual aftermarket brake master cylinder is allowed.
 - ✧ **NO** in car brake adjustments are allowed.
- C. Stock or stock appearing steel calipers only.



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6.2 - Brakes(continued)

D. Only steel, non-scalloped rotors are allowed.

E. NO Titanium brake parts will be allowed.

7.1 - Suspension

A. Shocks must be stock type, stock mounted, in the stock location.

✧ Shocks may be "take-apart" type, gas or oil type.

✧ Steel body shocks ONLY.

✧ Shock shaft must be able to fully compress all the way into the shock body and fully extend for the proper length of the shock.

✧ No internal travel limiters in the shocks are allowed.

✧ Cost per shock must not exceed \$250 per shock.

B. Springs must be mounted in the stock, OEM location.

✧ Rear springs must be directly over center of the axle.

✧ Moving the spring mounts to the left, right, forward or aft of the stock location of center line of the axle is NOT allowed.

C. A stock replacement front tubular upper control arm will be allowed.

✧ Control arm must have a steel cross shaft.

✧ Stock, OEM dimensions for year/make/model of the chassis being used, are allowed. 8 inch right side and 9 inch left side.

✧ Control arm must bolt directly to stock, mounting bracket.

D. Upper and lower control arm brackets/mounts may NOT be moved on the frame and must remain in the stock, location for the year/make/model of the chassis being used.

E. Upper and lower control arms must use stock, OEM type ball joints.

F. Lower control arms must be stock, OEM for the year/make/model of the chassis being used.

✧ Aftermarket type lower control arms are not allowed.

G. Spindles must be stock, OEM for the year/make/model of chassis being used.

✧ Spindle savers are permitted.

H. Front springs must be in the OEM stock location. Front spring adjustment weight jacks will not be permitted.



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7.1 - Suspension(continued)

- I. Tie rods and rod ends must be stock, OEM for the year/make/model of the chassis being used.
- J. Titanium, gun-drilled, hollow bolts, or studs of any kind, are not allowed anywhere on the car.
- K. No suspension limiters of any kind are allowed.
 - ✧ Included, but is not limited to: Chains, Ropes, Bump Stops, etc.

8.1 - Steering

- A. Steering quickening devices are allowed.
- B. Aftermarket power steering pumps and reservoirs are allowed.
- C. Steering shaft may be collapsible. (highly recommended)
- D. Aftermarket steering wheel with quick release is required.

9.1 - SAFETY

Personal Protective Equipment also see section A. in the Charleston Speedway General Rules.

It is the sole responsibility of each competitor to verify the effectiveness, ensure proper installation per the manufacturer's specifications, and properly use, every component of the competitors safety equipment. Each competitor is expected to investigate and educate themselves for continuing improvement regarding their own personal safety equipment.

9.2 - Seat Belt and Restraint System

- A. Each car must be equipped with minimum of an SFI 16.1 or SFI 16.5 approved restraint system.
 - ✧ Restraint system will be eligible for use in competition until the expiration date or for 2 years from the date of manufacture.
 - ✧ Seat belt restraint systems must be installed and used in accordance with manufacturer's instructions and recommendations.
- B. Seat belt material shall not be permitted to come in contact with any sharp or metal edges, including when the material passes through the seat.



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9.3 - Protective Clothing

- A. All drivers are required to wear a fire-resistant driving uniform meeting minimum of the SFI 3.2A/5 specifications and display a valid SFI 3.2A/5 label on the outside of the uniform.
- B. Drivers must wear gloves at all times they are on the track.
 - ✧ Driver's gloves must meet or exceed the SFI 3.3 specification and have a legible and valid SFI 3.3 label.
- C. Drivers must wear racing shoes at all times they are on the track.
 - ✧ Racing shoes must meet a minimum of the SFI 3.3 specifications and display a valid SFI 3.3 label.

9.4 - Seats

- A. Any approved racing seat is required.
 - ✧ Full containment, custom fitted seats or aftermarket bolt on head restraints are recommended.
 - ✧ All seats must be mounted to the frame as required by the seat and chassis manufacturer.

9.5 - Helmets

- A. All drivers must wear a full-face helmet at all times while on track.
 - ✧ Helmet minimum safety rating of FIA 8860-2010, FIA 8860-2018, Snell SA 2015, Snell SA 2010, Snell SAH 2010 and/or a valid SFI 31.1/2005 label is required.

9.6 - Head and Neck Restraints

- A. Drivers, at all times they are on the track, should have their helmets correctly (following manufacturers installation and use instructions) connected to an approved head and neck restraint.
- B. The head and neck restraint must be SFI 38.1 approved and display a legible and valid SFI 38.1 label.
- C. Neck braces should be used when a head & neck restraint device is not used.

END OF 2025 FACTORY STOCK SPECIFIC RULES

