

2021 DIRTcar Sport Compact

TO ALL COMPETITORS/PARTICIPANTS

- ❖ Under the guideline of the 2021 DIRTcar Sport Compact rules any and/or rules and as stated in the 2021 DIRTcar Rule Book, all DIRTcar rules 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. Instances, where applicable, local track may be applied.
- ❖ The 2021 DIRTcar Sports Compact Rules have been established to include the rules in several different regions of North America, refer to the rules that are in effect in your region.
- ❖ The following are the 2021 DIRTcar Sports Compact rules. All amendments supersede any previous rules regarding any technical article and/or aspect.
- ❖ Under the guideline of the 2021 DIRTcar Sports Compact rules any and/or rules and as stated in the 2021 DIRTcar Rule Book, all DIRTcar rules apply to all sanctioned divisions.
- ❖ The specifications published shall be considered a section of the *“General Rules and Specifications”* for all events, series and sanctions by World Racing Group. All sections should be considered when determining specifications and governance.

27.0 DIRTcar Sport Compact

27.1 – Engine

- A. Only three (3) or four (4) cylinder in-line engines will be permitted.
- B. All engine components must remain unaltered and OEM for the year, make and model of the car being used in competition.
- C. All valve-train components must remain unaltered and OEM including but not limited to; crankshaft, connecting rods, valves, valve sizes and the bore and stroke.
- D. Aftermarket and/or racing-type cylinder heads will not be permitted.
- E. High performance and/or sports car engines of any type will not be permitted.
- F. Turbo charged and/or super charged and/or rotary engines and/or engines utilizing a variable cam-timing system will not be permitted.

27.1.2. – Electronics and Ignition System

- A. All ignition components must be unaltered, OEM and match the year, make and model of the car in competition. Only 12-volt ignition systems will be permitted.
- B. Ignition boxes and/or performance chips and/or any ignition enhancing devices will not be permitted.
- C. Traction control of any-type will not be permitted.
- D. Only one twelve (12) volt battery, securely mounted with both terminals covered will be permitted. If battery is moved from OEM location, the battery must be mounted in a Marine-type case.
- E. Only stock OEM starters in the OEM location will be permitted.
- F. Only one aftermarket tachometer, oil pressure and water temperature gauge(s) will be permitted.
- G. The vehicle computer (ECU) must be mounted in a visible location providing ease of inspection.
- H. In-car cameras, recording devices and/or data transmitting devices of any-type will not be permitted.

27.1.3 – Exhaust System

- A. The exhaust manifold must remain unaltered and OEM for the year, make and model of the car in competition.
- B. Removal of the catalytic converter, air conditioning compressor and smog pump will be permitted.
- C. Track rules may require a muffler.

27.1.4 - Engine Compartment

- A. The engine and radiator must be OEM and mounted in the stock OEM location for the year, make and model of the car in competition.
- B. Solid engine mounts and/or safety chains will be permitted.
- C. Accumulators and/or Accusumps will not be permitted.
- D. Reinforcing will not be permitted with the exception of the front strut bar.

27.2 - Transmission & Driveline

- A. The transmission and/or transaxle must remain OEM and unaltered for the year, make and model of the car in competition.
- B. All forward and reverse gears must be operational.
- C. The flywheel, flexplate, clutch and/or torque converter and/or assembly must remain unaltered and OEM of the year, make and model of the car in competition.
- D. Mini-type clutches and/or couplers will not be permitted.
- E. Transmission coolers in the driver compartment will not be permitted.
- F. Torque dividing final drive systems will not be permitted.
- G. Locked differentials of any type will not be permitted.
- H. A minimum one (1) inch inspection hole must be located in the bell housing.

27.3 – Chassis/Frame

- A. All chassis and frames must remain unaltered and OEM. Any front wheel drive, compact car frame will be permitted.
- B. A maximum wheelbase of 107-inches will be permitted.
- C. The magnetic steel floor pan must remain unaltered and OEM. Any work that is done in the form of patches must be completed with magnetic steel.

27.4 – Weight

- A. Additional weight of any type will not be permitted. Any item(s) that are deemed to provide additional weight must be removed.

27.5 – Fuel Cells and Fuel

- A. The fuel system must be complete, unaltered and OEM for the year, make and model of the car in competition.
- B. Only standard pump gasoline will be permitted for competition. A maximum of 93 octane. Performance additives will not be permitted.
- C. The gas tank/fuel cell may be mounted ahead of the rear axle with a minimum 1/8-inch shield mounted under it.
- D. If the gas tank/fuel cell is mounted behind the rear axle the gas tank/fuel cell must be replaced with a maximum eight (8) gallon fuel cell relocated to the trunk area of the car. The cell must be mounted with two (2) solid magnetic steel straps around the entire cell two (2) inches wide and .125-inch thick. A magnetic steel or fuel cell cover must be between the driver and the fuel cell.
- E. A fuel cell vent, including cap vent, must have a check valve. If the fuel cell does not have an aircraft-type positive seal filler neck, then a flapper, spring and/or ball type filler roll-over valve is mandatory.
- F. External electric fuel pump wired to the ignition switch with aftermarket fuel cell will be permitted.
- G. Cool cans will not be permitted.
- H. Fuel lines that pass through the driver compartment must be magnetic steel.

27.6 – Body – (See drawing diagram for reference)

- A. Any front wheel drive, compact car will be permitted for competition. Station wagons, and/or convertibles and/or two seat sports cars will not be permitted.
- B. The body must remain unaltered and OEM in appearance.
- C. The inner fenders must remain unaltered and OEM. Removing of the inner fenders will not be permitted.
- D. The hood and trunk lid / hatchback must be positively and securely fastened.
- E. All doors must be positively and securely fastened.
- F. All glass, exterior lights, chrome and/or plastic trim and hood insulation must be removed.
- G. The dashboard may be removed.
- H. Front and rear bumpers must be positively and securely fastened. Welded, chained and/or cabled to the frame will be permitted.

- I. A front and rear tow hook easily accessible will be required.
- J. The OEM bumper covers must remain on the vehicle, but may be altered to allow for tow hook.
- K. A maximum seven (7) inch sun visor will be permitted.
- L. The opera windows may be closed and/or sealed.

27.7 – Suspension

- A. All components and mounts must remain unaltered and OEM and must match the year, make and model of car in competition.
- B. Weight jacks, modifications, racing components, aftermarket or homemade traction devices will not be permitted.
- C. The car must remain in alignment from front-to-rear and must track straight.
- D. A maximum of 5 degrees of camber will be permitted on any wheel.
- E. Center mounted steering will not be permitted.
- F. A quick release, aftermarket steering wheel will be permitted. The steering column must remain OEM and unaltered.
- G. Aftermarket remote reservoir power steering will not be permitted.
- H. All shocks and struts must remain unaltered and OEM in the OEM location.
- I. Spring rubbers will be permitted.

27.7.2 – Brakes

- A. All brake components must be unaltered, OEM, magnetic steel and operative on all four wheels.
- B. Disc and/or drum brakes will be permitted and they must match the year, make and model of the vehicle in competition.
- C. Only OEM Master Cylinders in OEM location will be permitted.
- D. Brake shut off and/or valve bias adjuster(s) will not be permitted.
- E. Only magnetic steel brake lines will be permitted.

27.8 – Wheels and Tires

- A. Only OEM DOT 13, 14, 15 or 16-inch passenger tires will be permitted. Racing, mud, and/or snow tires will not be permitted.
- B. Alterations of any type including re-caps, softening, chemical alteration, conditioning, siping and/or grooving will not be permitted.
- C. All wheels must be OEM steel or aluminum wheels with a maximum width of seven (7) inches and a standard bead.
- D. All four (4) tires and wheels must be of the same series, size and offset.
- E. All tires must remain inside of the body.
- F. Wheel spacers and/or bleeder valves will not be permitted.
- G. Wheel reinforcement is strongly recommended.
- H. One (1) inch Outside Diameter magnetic steel lug nuts on steel wheels are required.
- I. Only approved wheel discs will be permitted. Approved wheel discs are wheel discs that are fastened to the wheel using a minimum of three (3), 1/4 or 5/16-inch diameter magnetic steel hex head bolts. The use of wheel discs with any other type of fastener will not be permitted.
- J. Approved fastening (nut assembly) systems:
 - a. Keyser Manufacturing, part #100 7-101.
 - b. Wehrs Man. Part # WM377A-312 Aluminum 5/16 / WM377S-312 Steel 5/16
 - c. Triple X Chassis Part # SC-WH-7810(1" spring) / SC-WH-7820(1 3/8" spring)
 - d. Pit Stop USA Part #:
 - e. Smith Precision Products Part # MC-516-18

27.9 - Personal Protection Equipment (See section 3.0 for requirements) **(See section 3.0 for requirements)**

Note: Industry approved requirements in the Personal Protection Equipment will begin to be introduced into all divisions. When upgrading or purchasing new please consider the future requirements.

27.9.1 – Personal Safety Equipment

- A. It is the sole responsibility of each competitor for the effectiveness and proper installation, per the manufacturer's specifications to be adequate for competition at every event. Each competitor is expected to investigate and educate themselves for continuing improvement regarding their own personal safety equipment.

27.9.2 – Other

- A. No sharp or protruding edges in or around the cockpit, which would impede the driver's rapid exit from the car.
- B. Windshield screens with a minimum of .090-inch screens must be securely fastened
- C. An electrical engine shut off switch is required. The switch must be clearly labeled and within the reach of the driver.
- D. A fuel shut off valve is required. The valve must clearly labeled and within reach of the driver.
- E. Flame retardant seat, roll bar, knee and steering pads or padding are recommended

27.10 – Roll Cage

- A. Unless otherwise noted all tubing utilized in the construction of the roll cage must be 1.50-inch Outside Diameter, .095-inch thick magnetic steel tubing.
- B. A six-point, full perimeter, using 1.50-inch Outside Diameter, .095-inch thick magnetic steel tubing is required.
- C. The rear hoop must have bracing that crosses in an 'X' configuration. Rear kicks up supports are required.
- D. A minimum 1.25-inch outside diameter cross bar is required across the top of the halo bar.
- E. The roll cage must be securely fastened (welding is required) utilizing a minimum of .250-inch plating to mount cage to the frame. Only magnetic steel will be permitted. Iron, galvanized pipe, fittings, square tubing, brazing and/or soldering will not be permitted.
- F. A minimum of three (3) door bars on the driver side and two (2) door bars on the passenger side, mounted in a horizontal manner will be required. Vertical bracing from the top-to-the-bottom of the door bars on both sides is required.
- G. A minimum of three (3) windshield bars and protective screen will be required in front of the driver.
- H. The driver compartment must be sealed completely from the track, the engine and the fuel cell. The front and rear firewalls must remain and any holes must be patched with magnetic steel.
- I. Mirrors will not be permitted.
- J. Gutting of the car will not be permitted with the exception of clearance for the roll and door bars.
- K. All material considered flammable including but not limited to the radio, airbags must be removed.
- L. The interior must remain open.

27.11 – Other

- A. The Vehicle Identification Number (VIN) must remain clearly visible and unaltered in a minimum of one (1) of the OEM locations. Any car missing the VIN will not be permitted to enter competition.
- B. The entire car may be claimed and/or exchanged by the track operator/promoter and/or another competitor who finishes on the lead lap in the stated feature event. A competitor may make only one such claim per season;
 - a. \$1,000 cash claim and/or exchange on complete car.
 - b. The claim does not include any of the following; Seat, seatbelts, any other permanently mounted safety items and/or the fuel cell and/or electronic fuel pump.