

2020 Northern Nevada Winged Sprints

Suspension

- A. Any conventional 4 -- torsion bar or bars on rear/coil on front is acceptable. No 4 coil over allowed.
- B. No Independent rear suspensions shall be allowed, straight axles only.
- C. No devices that can adjust the suspension or shock absorbers by a driver in the car shall be allowed.
- D. No adjustable shocks – period.
- E. 1 shock per wheel.

Wheels

- A. Aluminum, 6-pin or splined wheel allowed.
- B. No plastic or carbon fiber wheels allowed.
- C. Bead-lock wheels are recommended. Mandatory on outside right rear.

Tires

- A. Any tire allowed.

Brakes

- A. Minimum left front and left rear brake system required. Brakes must be in proper working order at ALL times. No brake shut off valves.
- B. Steel, cast iron, or aluminum rotors only; steel recommended – TITANIUM or CARBON FIBER, rotors NOT allowed.

Body

- A. Sprint car bodies only. May be fiberglass or metal.
- B. Side panels are mandatory.
- C. No ground effect or wing-type bodywork shall be allowed.
- D. Windshield screens are mandatory.
- E. A floor-pan is required and must extend in front of the firewall to the front of the driver's seat.

Wings

- A. Top wing shall be no larger than 25 sq. ft. and no more than 60" wide.
- B. Side panels shall be a maximum of 30" H x 72" L.
- C. There shall be a 1" maximum wickerbill allowed on the top wing.
- D. Top wing is mandatory at all times. Top wings shall be surely mounted.
- E. Front wings shall be a maximum of 6 sq. ft. (2'x 3").
- F. Wing sliders are optional (Hydraulic or Manual)

Engines

Note: We are a flat tappet cam class. No roller cams.

- A. Radiators shall be mounted in engine compartment ahead of motor.
- B. 100 DBA @ 100 Feet. Must meet track requirements for engine noise specifications.

- C. Throttle pedal shall have a toe strap and minimum of three (3) throttle return springs in the system with at least one (1) spring attached to the butterfly shaft.
- D. Starters are optional. All racers not self-starting must supply own push vehicle!
- E. All engines built and crate, will be required to run a rev limiter at 6,200 RPM.

Crate Motors

- A. CRATE MOTORS: 88959602/19258602 Crate Engines allowed.
- B. Rear drive pump mounting optional from GM certified builder, (Pace Performance, Race 1).
- C. NOTE: COMPRESSION NOT TO EXCEED 160psi CRATE MOTORS. Compression release devices are not allowed. This may be changed by officials as needed.
- D. All engines built and crate, will be required to run a rev limiter at 6,200 RPM.

Built Motors

- A. 360 cu. In. +2% (367.6 MAXIMUM – NO EXCEPTIONS)
- B. Cast iron block and cast iron heads shall be mandatory. No aluminum or other exotic metals shall be allowed.
- C. Raised runner heads shall not be allowed. 23 degrees Chevy, 20 degree Ford and 23 degree Chrysler.
- D. Valve lift shall not exceed .565 – to be measured at valve. No titanium, exotic metals or materials allowed.
- E. Flat tappet cams only. Lifters must be stock diameter. No offset Lifter Bores and no big block lifters. No roller cams. Roller rockers and girdles are OK.
- F. Gear drives ok.
- G. No titanium or aluminum rods shall be allowed.
- H. Stock-type, SFI approved harmonic balancer required.
- I. Stock-size fly-wheel or flex plate required – must be SFI approved.
- J. Engine compression (Turn engine over 5 times with no start) not to exceed 220psi at spark plug hole chosen.
- K. All engines built and crate, will be required to run a rev limiter at 6,200 RPM.
- L. MSD boxes that accept a rev limiter chip, digital, and dial styles will be allowed. Digital and Dial boxes will have to match rpm with a digital timing light.
- M. Must be mounted OUT of drivers reach.
- N. No traction control allowed. Ignition boxes with traction control capability will not be allowed. An infraction of this rule will result in a \$1,500 fine AND loss of all accumulated season points.
- O. “Dry” sump systems allowed.

Carburetors & Fuel System

- A. No Predator carbs, NO FUEL INJECTIONS.
- B. Crate motors must use a Holly 4412 2 barrel/500 CFM at max.
- C. Built motors must run a 4412, Holly 500 CFM 2bbl or Demon 500 CFM 2bbl-gas or alcohol.
- D. Venturi may be opened .010 (ten thousandths) over catalog specifications.
- E. Choke tower may be removed.
- F. External jets allowed.
- G. Bottom of carburetor shall be no more than 4” from the top of the manifold. This includes any adapters, spacers, etc.
- H. No RAM intakes shall be allowed.
- I. Cam drive fuel pumps allowed. No electric pumps allowed.

- J. Alcohol or race gas allowed. E-85 pump fuel ok.
- K. A securely mounted fuel tank (sprint car or midget type) with bladder shall be required for all cars in competition.
- L. Approved fuel cell may be used for gas and must be securely mounted under fuel shell. Fuel Safe Enduro tanks allowed.
- M. Fuel lines and fuel filters must be securely mounted to chassis.

Drivers Compartment

- A. Aluminum or steel seats shall be mandatory. The seating system should provide lateral support on both right and left sides.
- B. High back seats are recommended. High-impact headrests are mandatory. Headrest shall be of shock-absorbing material behind the driver's head and shall be a minimum of 1" thick. Full containment seats are recommended.
- C. Seats should be mounted in four (4) places to the chassis with a minimum 3/8" steel bolts and nuts. Each mounting hole shall have a minimum 2" diameter mounting plate with a .060" minimum thickness.
- D. Five (5) point type harnesses required with three (3) inch waist and shoulder straps. Belts may be no more than three (3) years old.
- E. Window nets, right and left side is highly recommended. If used, must be quick release type.

Roll Cage Padding

- A. All chassis roll cage tubes and bars close to the driver's head shall be padded with high impact approved roll cage padding.

Steering

- A. Steering wheel shall be the quick-release type.
- B. Steering drag link tether mandatory.

Driver Uniforms

- A. Driver's uniforms, gloves and shoes shall be mandatory. Nomex underwear and socks highly recommended.
- B. Head socks and or helmet skirts are recommended.
- C. Arm Restraints & Neck Brace mandatory. HANS-type device recommended.

Helmets

- A. SA 2010 or newer helmet required.

General Rules

- A. A battery is not required.
- B. Battery shall be securely mounted. Must have a master switch to shut all battery power off. Must be reachable by tech or safety people.
- C. Front bar stop safety rod fasteners mandatory – If using all thread, the all thread must be tethered to chassis. Rears are suggested, but optional
- D. Master switch for battery, must be accessible from left side of car.

AGE RESTRICTIONS – Minimum age for Sprint Drivers is fifteen (15) years of age. Fourteen (14) and younger will need board's approval.

Points Season

The 2020 points season includes all the I-80 Challenge dates and will follow its scoring rules.

Chassis

- A. Minimum weight after main event 1,600lbs – scales will be at each race.
- B. Open to any conventional sprint car chassis.
- C. Wheelbase: minimum 82", maximum 92".
- D. Main cage structure: shall be no less than 1 3/8" O.D. with .095" minimum wall thickness for chromoly tubing (1 1/2" x .095 wall is recommended). Case must extend 2" about drivers' head.
- E. The cars body, motor, driver seat, and fuel tank assembly must be mounted to the chassis centerline.
- F. Sprint car type bumpers and nerf bars are mandatory and must be securely bolted to the chassis.
- G. Bumpers and nerf bars must be constructed of steel tubing, minimum of 1" O.D. x .060" to 1" O.D. x .120" maximum.
- H. No solid bars and no lead bumpers.
- I. 1" raised rail frame ok.

Drive Train

- A. All drive trains must have a driveline or rear-end coupler system (to disengage rear-end from motor)
- B. Torque arm drivelines may not be used. All drivelines must be enclosed and contain no more than one (1) U-joint and that must be at the front of the driveline.
- C. Buckley Yokes are acceptable.
- D. A torque tube safety strap or driveline hoop is required.
- E. Any sprint car quick-change with a maximum 2" axle offset is allowed.
- F. Rear end must be able to be engaged/disengaged from within the cock-pit.

**These rules will remain throughout the 2020 season
any changes to these rules will be for safety only.**