

**Northern California Modified Association (N.C.M.A.)
Pavement Sprint Car Series**

2026 Technical Rule Book

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I. Race Car Specifications

A. Specific Car Definition(s):

1. Right hand steering.
2. Rear Panhard bar.
3. Center of rear axle to front of motor plate measure 41” or more.
4. Any car that meets all the criteria above will be defined as “Asphalt Car” specific and will be governed by the rules in this section.
5. Any car that does not meet all the criteria above will be defined as a “Combo Car” and must adhere to the following:
 - a. Dirt type chassis, torsion bar suspension, left hand steering.

B. Chassis

1. Any sprint car frame that is tube type is acceptable.
2. No aluminum frames. Frames must be constructed using chrome-molly tubing with a minimum thickness of 0.095” for main cage surrounding the driver.
3. 82” to 96” maximum wheelbase.
4. Seat must be mounted within center of chassis.

C. Weight

1. Weight will be used to equalize the engine combinations allowed in this series.
2. Weight will be recorded with driver in car, prepared to race with all safety equipment.
3. Official(s) reserve the right to adjust the balance of power through weight to provide for better racing. Weight adjustments will only be made at least one week before event and will be communicated to all competitors.
 - a. 2-Barrel Carburetor 360 (Combo Car) – 1,600 lbs. minimum weight.
 - i. “Combo Car” to be based on Specific Car Definition(s)/construction.
 - b. 2-Barrel Carburetor 360 (Asphalt Car) – 1,650 lbs. minimum weight.
 - c. 4-Barrel Carburetor 360 & Spec LS (Asphalt Car) – 1,700 lbs. minimum weight.
 - d. Fuel-injected 360 (Asphalt Car) – 1,750 lbs. minimum weight.
4. Official weigh-in will be completed prior to any points related event.
5. Any added weight must be securely attached to the chassis and must be located no further than 12” forward of the engine mount or no further rearward than the back of seat and within the frame rails. A \$50.00 dollar fine will be enforced if the weight comes off and the car will be disqualified for that event.

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6. Official(s) reserve the right to disqualify any car whose weight mounting procedure or location does not satisfy specifications.

D. Drive Train

1. Engine starters are optional.
2. A bell housing, scatter shield, or other applicable shield is mandatory.
3. No independent rear suspensions allowed.
4. No open drive shafts. Drive shaft torque tube must have a 360-degree hoop.
5. No four (4)-wheel drives allowed.

E. Suspension

1. Absolutely no torque arms, suspension parts, or suspension adjustment (knobs) are allowed from the driver's compartment.

F. Engine

1. No titanium cranks, rods, pistons, or any rotating mass. Titanium valve springs and retainers are allowed.
2. Small block cast iron or aluminum block allowed. No Hemi's, and no overhead cam allowed.
3. Flat tappet or roller cams are allowed. Roller rockers and girdles are allowed.
4. Gear drive and dry sump oil systems are allowed.
5. Engines limited to a maximum of 360 CID.
6. Cylinder Heads:
 - a. Original Equipment Manufacturer (OEM) spec allowed.
 - b. Stock OEM valve angle plus or minus 2.0 degrees. (GM -23 degrees +/- 2.0 degrees, Ford – 20 degrees +/- 2.0 degrees, Mopar – 18 degrees +/- 2.0).
 - c. Must be single-cam, push rod-rocker arm type.
7. Carburetor and Intake Manifold:
 - a. 2-Barrel Carburetors – (Holley # 4412 or Demon or 9647 Series 500 Cubic Feet per Minute (CFM) or equivalent is permitted.
 - i. Maximum Throttle Bore: 1.6875", Maximum Venturi Bore: 1.375".
 - ii. Choke horn may be removed.
 - iii. External jets are allowed.
 - iv. No-Go gauge must not go past venturi.
 - b. 4-Barrel Carburetors – (Holley 850 CFM max, Model 4150, Part #4781 or equivalent) is permitted.
 - i. Maximum Throttle Bore: 1.750", Maximum Venturi Bore: 1.5625".
 - ii. Choke horn may be removed.
 - iii. Combined carburetor spacer and gaskets shall not exceed 1.25".
 - iv. No internal modifications allowed, e.g., polishing, etc.

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- v. No-Go gauge must not go past venturi.
 - c. No Gold Claw type carburetor allowed.
 - d. The bottom of the carburetor may be no more than 4" from the top of the manifold. This is including adapters, spacers, etc.
 - e. For 2-barrel carburetors, a 4-barrel intake manifold is allowed.
 - f. No ram intakes allowed.
8. Fuel-injected Spec 360 CID Engines:
 - a. 2-3/16" maximum fuel injection allowed.
 - b. Heads that are more than 2-degrees from stock valve angle must run a maximum of 2.100" diameter x 2" depth restrictor.
 - c. Any restrictor used must be installed above the butterflies.
 9. Spec LS Engine is allowed as outlined in Attachment A.
 10. A minimum of two (2) return springs must be connected to the throttle.
 11. Coolant catch cans are required.
 12. Belly pans are required under the motor. Must have either a lip or gasket on all sides.
 13. No traction control device(s) of any kind are allowed.

G. Mufflers

1. All cars must have a muffler installed if required by the racetrack.
2. All cars must meet racetrack engine noise decibel requirements.
3. Any car that is too loud during practice and/or time trials will not be allowed to compete in the race events as dictated by the racetrack rules.

H. Electrical

1. Standard Vertex style magnetos with internal or external coils as well as MSD ignition allowed. Competitor's ignition must be compatible with MSD #8106 box. No special built magnetos allowed.
2. Spec LS Engine, see Attachment A.
3. The use of electronic logic processors to control any function of the race car, and/or system for continuous gathering of data from any function of the race car, except for a tachometer, is strictly prohibited.

I. Fuel

1. Methanol race fuel only. No nitro or nitrous oxide.
2. Mechanical fuel pumps only. No electrical fuel pumps allowed.
3. No fuel additive of any kind allowed.

J. Body

1. Fiberglass, aluminum, or carbon fiber allowed.
2. Quick release fasteners are required for all body components.

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3. Only normal, traditional Sprint Car bodies will be permitted.
4. Body must be no wider than the inside of tires.
5. Aside for standardized mounting, the hood, nose assembly, and number plate must not be wider than the parallel lines of the body and must not exceed the width of the chassis.
6. Splitter must not exceed 2" from front or sides of nose.
7. Hood:
 - a. Must be no more than 2" wider than front rail.
 - b. Must not be contoured to act as a wing.
8. Airfoils, wings, spoilers, or other aerodynamic appendages will not be permitted.
9. Unless car contains full containment seat that protects drivers head and shoulders, window nets are required on both sides (metal buckles are recommended).

K. Wheels

1. The number of wheels allowed is two (2) front and two (2) rear wheels only.
2. 15" wheels only. Maximum width 18", measured between the outer bead seats of the rim.
3. All wheels must be approved for racing from the manufacturer. No steel passenger car or home-made wheels permitted. Fabricated and/or split rim wheels must have the specific approval of N.C.M.A. BOD or designated Official(s).
4. All three (3)-piece wheels must have all bolts in place.
5. The right front wheels must have six (6) pins. Spline wheels are not allowed on the right front.
6. Bead locks are allowed and recommended.
7. Diaphragm bleeders are allowed. Digital/electronic-style bleeders are not allowed.

L. Brakes

1. All cars must be equipped with a foot operated braking device to safely stop the car. All cars must be equipped with a working brake on the Left and Right front wheel.
2. Master cylinders not fixed to the frame must have flexible lines. Copper tubing is not allowed anywhere in the braking system.
3. **Brake bias adjustments (knobs) are allowed in the driver's compartment.**

M. Steering

1. Quick release steering wheel required.
2. Pin-type steering must be marked with red tape at the top of steering wheel where pin is placed.
3. Steel rod ends are required on the drag link and tie rod; and are recommended for all locations.

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N. Nerf Bars

a. Front Nerf Bars

1. Minimum 1" Outer Diameter (OD) material aluminum, steel, or stainless steel.
2. Must have a minimum of 0.065" to a maximum of 0.120" wall.
3. No wider than the frame.
4. No sharp edges or corners allowed.
5. Sprint Car-type, single bar two (2)-point mount allowed.
6. No lead is allowed on, in, or part of the nerf bar.

b. Side Nerf Bars

1. Maximum 1" OD material steel or stainless steel.
2. Must have minimum of 0.065" to a maximum of 0.120" wall.
3. Must extend to center, but not past outside of tires.
4. No sharp edges or corners allowed.
5. Three (3) or four (4)-point nerf bars allowed.
6. All four (4)-point nerf bars can only have one (1) cross bar. It must be from the rear to the center of the bottom rail. They may only have an upright in each corner and in the center.
7. No lead is allowed on, in, or part of the nerf bar.

c. Rear Nerf Bars

1. Minimum 1" OD material steel or stainless steel.
2. Must have a minimum of 0.065" to a maximum of 0.120" wall.
3. No sharp edges or corners allowed.
4. Sprint Car-type, four (4)-point mount required.
5. No lead is allowed on, in, or part of the nerf bar.

O. Tires

1. Tires must be racing slicks (including left front) and run exactly as they are manufactured. No soaking or softening agents, heating, sipping, or grooving is allowed.
2. Tires to be run will be American Racer:
 - a. RR: 28.0-17.0-15 compound M-132. JNJ CJ
 - b. LR: 25.5-13.5-15 compound M-130. JCAJJ
 - c. LR: 25.0-13.5-15 compound M-130 JCAJH
 - d. RF: 24.0-11.0-15 compound M-131 JCBJ3
 - e. LF: 23.5/10.0-15S compound M28 JNJ CJ

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3. Right rear, right front, and left rear tires must be run for a minimum of three (3) consecutive race dates. Right rear, right front, and left rear tires will be marked and checked before the start of qualifying and must be run during all point events on race date (qualifying, heat and feature event).
4. If a new right side or left rear tire is deemed damaged and a new one is put on, that will restart the 3 race minimum and count as race #1 for that particular tire. Could result in the three tires being off original 3 race schedule.
5. During the event, if you change either right side tires or left rear after the original green flag of the event (qualifying) you will be put to the rear of the field and placed one lap down for the start of the feature of that event. However, if the tire was damaged by a crash or debris, and with the inspection and approval of N.C.M.A. Official(s), that tire may be changed with a previously used and marked tire.
6. All first-time competitors with N.C.M.A. must have an American Racer Tire on the right rear to compete. Second event: Right rear and right front tires must be American Racer. Third event: All four tires must be American Racer Tires.
7. All returning prior year competitors must start the season with American Racer Tires on all four tires
8. All right-side tires will be marked (whether new or used) at the first event. Used tires will be designated as used.
9. The outside of the right rear wheel measured from the centerline of the rear axle center section to the outside wheel surface cannot exceed 44". The outside of the right front wheel, measured at the outside wheel surface, cannot exceed 44" from the centerline of the chassis.

II. Safety

1. The items listed in this Safety category are minimum safety rules set by the N.C.M.A. It is the Ultimate Responsibility of each driver to make his/her car as safe as possible. All cars and equipment will be inspected and approved for competition by N.C.M.A. Official(s) prior to the first race event each year.
2. All determinations on safety issues will be at the discretion of the N.C.M.A. Official(s). These rules may be updated or changed during the season as deemed necessary by the BOD or N.C.M.A. Officials.
3. All safety equipment must be Safety Equipment Institute (SEI) approved.
4. Roll Bars:
 - a. Must be mild steel or chrome molly.
 - b. Minimum 1-1/2" x .120" wall mild steel.
 - c. Minimum 1-1/2" x .095" chrome molly.
 - d. Corners must be bent (no mitered joints allowed).
 - e. Top of roll cage shall be above the driver's head with helmet on.

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- f. All roll bars that may come into contact the driver must be padded with approved roll bar padding.
5. Knee guards are mandatory.
6. Helmets must be a minimum of Snell 2010 approved. Head and neck restraint is required (e.g., Hans, Hutchens, Defender, etc.). Snell 2010 helmet and head and neck restraints that meet SFI 38.1 recommended.
7. Drivers will remain in their car while on the racetrack and wait for emergency personnel to arrive before exiting. However, if the driver is in danger due to fire, liquid spills, or other mechanical or environmental conditions they may exit prior to emergency personnel arriving.
8. Fuel Cell:
 - a. All cars must be equipped with an approved fuel cell or tail tank with bladder
9. Firewall:
 - a. Firewall required between driver and fuel cell if car has a square tank.
10. Seat Belts:
 - a. Five (5)-point seat belts that are SFI 16.1 safety rated, NO EXCEPTIONS. 2” or 3” belts allowed.
 - b. Sub-belt and arm restraints are mandatory.
 - c. All belts must be in like-new condition. Any frayed or unsatisfactory areas found will be reason for replacement.
 - d. Seat belts must be replaced or re-webbed at a minimum of every five (5) years from manufactured date.
11. Uniforms, Gloves, Shoes:
 - a. Fire retardant uniforms, gloves, and shoes are mandatory.
 - b. Minimum two (2)-layers of protective clothing is required.
 - c. Head sock or helmet skirts are mandatory.
12. Ignition:
 - a. Ignition must be clearly marked ON/OFF and located within easy reach of the driver and visible to Official(s).
13. Batteries:
 - a. Batteries must be securely mounted and covered within the frame rails.
 - b. Dry Cell batteries are recommended. Wet batteries must have cover to protect driver from spills.
14. Fuel Shutoff Valve:
 - a. Fuel shutoff valve must be in plain sight in the driver’s compartment.
 - b. Fuel shutoff valve must be located within easy reach of the driver and visible to the Official(s).
 - c. Fuel Shutoff valve must be marked with bright contrasting color for Official(s) and Safety Personnel.
15. Fire System:
 - a. Onboard fire systems are allowed.

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ATTACHMENT A

N.C.M.A. Approved Spec LS Engine

1.1. Block

- 1.1.1. Factory production iron LS Steel/Iron 5.3, 5.7, 6.0 blocks only, no lighting allowed.
- 1.1.2. Standard reconditioning allowed.
- 1.1.3. Boring, honing, line honing and lifter bore repair allowed.
- 1.1.4. Block deck surface may be resurfaced and block bored.
- 1.1.5. Absolutely no lightening, grinding or defacing of any factory numbers or markings allowed.
- 1.1.6. Crankshaft
- 1.1.7. Stock OEM GM crankshaft LS LM7 5.3 casting number 12552216 with stroke length of 3.622" is the only crankshaft allowed.
- 1.1.8. Standard grinding to rod and main journals allowed.
- 1.1.9. No other lightening, grinding or polishing allowed except for holes for balancing reasons only.
- 1.1.10. Either a 24 or 58 tooth reluctor wheel is allowed.

1.2. Connecting Rods

- 1.2.1. Chevy powdered metal OEM rods, or SCAT aftermarket rods, part number 2-ICR6125-7/16 are the only connecting rods allowed.
- 1.2.2. Engines must not exceed 10.5:1 compression plus 1% displacement with the heads and gasket installed. No exceptions!
- 1.2.3. Bolts may be replaced.
- 1.2.4. On OEM rods, small end floater, and big end resized to factory specs.
- 1.2.5. No deburring or polishing allowed.
- 1.2.6. On OEM rods, Machining the connecting rod balance pad to balance rotating and reciprocating mass is allowed. One big end and one small end balance pad must be stock.

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1.3. Pistons

- 1.3.1. Any brand of piston allowed.
- 1.3.2. Any ring set is allowed.
- 1.3.3. Maximum compression ratio is 10.5:1 compression plus 1% displacement

1.4. Camshaft/Lifters

- 1.4.1. Any camshaft with a maximum of .600/.600 valve lift.
- 1.4.2. Only stock GM part number lifters, Chevrolet Performance LS7 lifters, Part# 12499225 or Sealed Power Part# HT2148 lifters are allowed as replacement.
- 1.4.3. Lifters must collapse minimum of .100”.
- 1.4.4. Stock or stock replacement rocker arms only. No roller tip rockers allowed.
- 1.4.5. Rocker arm trunnions may be upgraded to allow no more than .600/.600 valve lift. No other modifications allowed.
- 1.4.6. Push rods must be stock or stock replacement style 5/16” diameter only.

1.5. Cylinder Heads

- 1.5.1. Any Cathedral type LS Cylinder Head allowed. Must have GM casting numbers on heads. No moving or relocating of ports.

1.6. Oiling System

- 1.6.1. A minimum of 3/4 inch (1 inch recommended) inspection hole inside of oil pan 2 1/2 inches down from pan rail in line with a journal. Removing the pan may be required if further inspection is necessary.

1.7. Ignition, Starter & Electronics

- 1.7.1. MSD 6014CT ignition controller, part # 5476014CT is the ONLY allowed controller.
- 1.7.2. MSD 6014CT ignition controller cannot be altered in any way.
- 1.7.3. N.C.M.A. Officials can check the ignition controller programming by laptop at any time.
- 1.7.4. No electronic monitoring devices capable of storing or transmitting information except tachometer allowed.

1.8. Carburetor

- 1.8.1. ATM Innovation XCTB 750 CFM Alcohol is the only carburetors allowed.

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- 1.8.2. The ATM Carburetors are marked with a serial number and tracked the series.
- 1.8.3. A bore gauge will be used to verify that the carburetor has not been modified.

1.9. Intake

- 1.9.1. Holley Single Plane Intake, Part# 300-132, is the only intake allowed.
- 1.9.2. Intake manifold must be run, 'out of the box', with no modifications.
- 1.9.3. With spacers and throttle linkage adapter in place, the bottom of throttle body may be no more than 2 and 3/8" from top of manifold.
- 1.9.4. Engine must be able to pass a stall test.

