

Street-Stock Section 2020

2020 changes in Red

Stock Definition....for the purpose of this rule book and governing events at the speedway, the word “Stock” means: - Available on stock passenger car models, from the car manufacturer, installed per the manufactures specifications, with no modifications, visual or technical, stock appearing ,stock performing unless otherwise noted in the listed rules for individual classes.

Section 1 Bodies

S.1 Open to any make of North American built car from 1965 to present inclusive with a wheelbaseof 110” or more as factory listed for that year, model, and those models listed below with a wheelbaseunder 110”.

Chrysler Models

76-81 Volare and
Aspen

Ford Models

75-81 Granada and Monarch

78-81 Zephyr and Fairmont

80-86 Thunderbird,Cougar and Lincoln

GM Models

78-79 Buick Skylark

78-86 Buick Regal Coupe

84-86 Buick Century

86 Buick LeSabre, Riviera

78-86 Chev Monte Carlo

78-81 Chev Malibu and Nova

84-86 Chev Celebrity

78-86 Olds Cutlass Coupe

84-86 Olds Cierra

86 Olds Delta, 88 Tornado

78-86 Grand Prix

78-81 Lemans Coupe, Phoenix, Grand
AM

- S.2 Bodies must be of original manufacturers design and stock appearing with steel body panels only, minimum 20 gauge. (Body = Fenders, Doors, Roof, ¼ panels, engine bonnet, trunk lid) Plastic nose, rear bumper covers permitted. Five Star roof allowed. Five star fiberglass hood allowed.
- S.3 Sports cars, station wagons, convertibles are not permitted. Consult Tech / Management on the possibility of trucks racing in this class.
- S.4 Bodies may be two or four door design with a minimum weight of **3400lbs**, with driver in.
- S.5 Car must retain stock original passenger floor panels, and firewalls or repaired in original contour with same gauge metal. Any car not meeting these specifications in the opinion of Tech is subject to weight penalties as will be determined by Tech. Minimum 1/8th steel floor plate must extend from back of seat to front of pedals.
- S.6 Doors must be bolted or welded shut and may not be cut down with the exception of the right front door may be rolled down a maximum of 2”.
- S.7 Original or equivalent bumpers must be used and be fastened to the frame in the original location. Bumpers may be reinforced but must retain stock appearance and bumper ends must be tied into the body to prevent hooking. 1/8” plate may be used to maximum width of bumper.
- S.8 All glass must be removed with the exception of the windshield, where 1/8” lexan may be used if securely fastened.
- S.9 All exterior chrome, trim, and vinyl tops must be removed. Windshield trim only may be retained if securely pop riveted in place.
- S.10 There must be a complete firewall of minimum 24 gauge between the driver and engine

and the driver and the fuel cell.

- S.11 Rear spoilers allowed. Must be no larger than 4 inches high, (measured on front). No side boxing spoiler. Spoiler must not extend wider than $\frac{1}{4}$ panels.
- S.12 One rear view mirror permitted. It may be mounted in the center of the windshield or mounted on either windshield post. Mirror must be kept within body lines. Two mirrors permitted if seat has two neck restraints.
- S.13 All interior trim must be removed with the exception of the driver's seat, which must be an aluminum race seat. The seat must be securely bolted to the frame with a minimum of four bolts of minimum $\frac{3}{8}$ " diameter, grade "5" quality or better. Seat may be electrically welded instead of bolted, at four points with a minimum weld joint of 2" at each point.
- S.14 Sharp edges or projections which could cut tires, cause damage or injury are not permitted.
- S.15 Driver Safety Belts must be dated no more than 5 calendar years old.
- Fuel cell is mandatory and can be maximum of 16 gallon.
 - Fuel cell must have minimum of 8 inches ground clearance.
- S.16 Helmet must be rated SNELL2010 approved or higher (No DOT or M)
- S.17 A Head and Neck Restraint or Neck Collar is mandatory.
- S.18 Driver must wear an approved fire retardant driving suit and gloves at ALL times car is on the track. (Fireproof shoes and socks is also recommended)
- S.19 All roll bars within drivers reach must be padded. (Proper Fire Rated Roll Bar Padding)
- S.20 Dirt Bars or Rub Rails maximum $\frac{1}{4}$ " X 2" flat bar. Must Hug Body Line. Rails may be placed between wheel well openings and front and rear of openings to bumpers. Bar ends are to taper into the body to prevent catching onto or hooking another vehicle. Rebar rub rails not allowed.
- Section 2 Chassis & Suspension
- S.21 Complete rear wheel drive frame only. No front wheel drive frames.
- S.22 All suspension parts are to be stock with no modifying.
The car must be a minimum of six (6) inches off the ground measured at any point under the "frame". Inspection height gauges must pass under frame with no contact .
All vertical measurements will be taken with driver in car.
Impala ,Caprice ,and Parisienne side frames will be measured on straight surface .
Front coil springs may be OEM or OEM replacement type. Conventional OEM type race springs allowed (i.e. AFCO, Hypercoil). No beehive or progressive rate springs allowed.

Front springs must have stock coil spacing and have a minimum uncompressed height of 8.5 inches

Springs must be a minimum of 5.0" O.D. (+/- 1/2 ") in diameter. Front springs must sit in the original OEM spring seats.

Solid shims maybe used on the top of the spring and seated in the original spring seat.

Adjustable spring seats allowed (not welded) on front springs only.

Maximum of 1 spring rubber allowed in each spring. (1 piece = 1 rubber)

Springs must be of original design and in stock location. No coil-over spring/shock combinations.

Lower control arms, and all other suspension components must remain stock and retain all original dimensions. All suspension mounting locations must remain in original STOCK locations.

All steering components must meet the original specifications of the manufacturer for specific year, make and model. No extended length ball joints. Only stock OEM spindles and rotors for year, make and model allowed.

No cutting and/or welding pitman arm.

No air shocks or bags

Minimum front spring rating of 650 LBS

S22a Stock sway bar only. Bar MUST be mounted in original brackets under frame rail.

Sway bar MUST be mounted in OEM position on top of control arm. OEM sway bar not to exceed 1 1/4"O.D.

Sway bar may be adjustable.

S22b Rear coil springs may be OEM or OEM replacement type. Conventional OEM type race springs allowed (i.e. AFco, Hypercoil). No beehive or progressive rate springs allowed.

Rear springs must be a minimum of 5" O.D. (+/- 1/2 ") and have a minimum uncompressed height if 10 inche .

Rear springs must have original spacing.Rear spring seats may be modified to accept closed coil- ground spring.

Recommended 1" bucket type spring seat on differential housing. Solid shims may be used on the top of the spring. Maximum of 1 spring rubber allowed in each spring (1 piece = 1 rubber)

ABSOLUTELY no adjustable spring seats allowed. One load bolt spring adjuster allowed in rear. It may be installed on left or right but NOT both.

S.24 One stock replacement shock absorber per wheel in stock position using stock mounting hardware is permitted. No racing shocks. Shocks may be stock replacement GAS shocks. All shock numbers MUST be readable. Shocks will be deemed illegal if numbers are unreadable. No Afco, Pro, Carrera, QA1, etc shocks allowed. All shocks must be mounted at original stock angles

S.25 Min wheelbase for cars is 108"

Any car with a "shorter" wheelbase will add 25 pounds for every inch shorter than stock.

S25a Max track width for full size cars is 65" center to center of tires

S.26 No Bumpstops / Coil Binding or Modifying suspension to limit travel.

S.27 **Weight**

All cars must weigh a minimum of 3400 pounds with driver at all times.

Maximum left side weight 53% of total weight.

Maximum rear weight 45% of total weight.

S.28 Aftermarket upper control arms allowed. MUST BE STEEL ONLY. Arms may be different lengths. Homemade control arms are not permitted. Any violation of this rule will result in a full suspension infraction.

S.28b Aftermarket rear control arms allowed. Must be stock specification.
Homemade control arms are not permitted.

S.29 All cars must have full frame. Unitized bodies may be used provided the front and rear sub frames are joined with material equivalent in strength to the frame material. Variation to this rule may result in weight penalties determined by the Technical Inspector.

S.29a The use of a tube chassis in this class is currently under review.

Section 3 Engine

S.30 Must be produced by the same manufacturer as the car and must not exceed 360cu.in displacement.

Engines must be stock, no performance engines. Early engines such as 275 hp 327 cu. in are not permitted.

No solid lifter type engines such as 302 CHEV, 350 LT1, and 340 Mopars.
Camshafts must be STOCK, low compression type available in 2 barrel engines:
i.e., no 350 h.p. hydraulic Chev camshafts.No Cleveland engines. Maximum
overbore.060

S.30A For 2017 The GM #12499529 long block crate engine will be allowed. It comes complete except for an intake manifold, water pump and balancer. A 2 bbl cast iron OEM intake must be used. The carburetor will be a 2 bbl Rochester which must be used with no adapter. This engine is available through any local GM dealer. The engine will be sealed by OBS prior to competition. A minimum \$50.00 sealing charge will be applied. The performance of this combination will be closely monitored and will be subject to possible adjustments with prior notice.

S.31 Cam Shafts

GM-Maximum lift .390 Intake - .410 Exhaust Duration 195 Intake - 202

Exhaust @

.050 lift

Ford Lift - intake .419 exhaust .448

Dodge Lift - intake .410 exhaust .410

No blueprinted or reground cams permitted. Must be stock duration. Camshafts must be installed straight up. No degreasing or offset keys or bushings on camshaft or crankshaft.

S.32 Heads must be stock, low compression type and may not be interchanged.i.e. no 300hp heads on Chev engines, no 340 heads on 318 mopars, 351 heads on 302 fords, etc.
GM heads permitted (last three casting numbers)882, 128, 820,493, 441, 991, 993, 339, and 188.

Chrysler Engines 2531894,3418915, 3671587,3769974, 4027596, 4071051.

S.33 Stock valves, lifters and springs. Heads must retain stock valve size for casting number on head. No 2.02 valve heads. Stock valve train only including rocker arms and ratios.
No pump up or Rhodes style lifters. Maximum allowed valve lash of zero. S.34 Pistons must be cast.

S.35 All engine components must be completely stock, no porting, polishing, machining or coating is permitted. No balancing. Cylinder heads may be planed a maximum of .030”.

S.36 Carburetor must be stock 2 barrel originally available on the car. Carb. May be altered only as follows: choke may be removed, bowl may be rethreaded to accept Holley jets(Max size 74), holes may be put in throttle plates for improved idle. Maximum size

1-3/8" venture and 1-11/16" throttle bore. SMI and JET brand carbs have been approved for this class. They must be stage #1 configuration with all stock measurements. All other non approved brands and stages will be deemed illegal. It will be the owners responsibility to provide proof of brand being used.

- S.36 A Air cleaner must be round and a maximum diameter of 17 inches and centered on carb air horn. Any external lips can not extend any further rearward than center of carb air horn.

- S.37 Stock unaltered manifolds only GM log type. Only one exhaust pipe per manifold of maximum 2" outside diameter may be used, they must extend behind the drivers position under the car. Exhaust must remain under the car. No ram head manifolds.

- S.38 Stock compression ratio no greater than 8.5 to 1 only to be checked by the whistler. Engine must be in stock location. Original mounts or same thickness.

- S.39 Engine must hold 20" of vacuum at 800 RPM on track gauge. Driver responsible for vacuum reading. No tolerance..

- S.40 Engine claimer will be \$3500.00. This is for complete engine as raced but does not include intake and exhaust manifolds, Carb and air cleaner, distributor, water and fuel pumps, starter, flywheel and front balancer. The person claiming the engine must have raced in the same class that night and must run the claimed engine the following week in the same class. Refusal of the claim will result in a major infraction.

Section 4 Power Train

- S.41 Three speed automatic transmissions. No 2 speed automatic or standard transmissions. Transmission must have stock OEM gear ratios.

- S.42 Transmissions must be stock and originally available on the car.

- S.43 Proper Torque Converter for engine. Must meet stock specifications.

- S.44 Quick change rear ends are not permitted. S.45

Aftermarket transmission coolers are permitted.

S.46 Factory brake systems only.

Section 5 Wheels, Tires & Seat Belts

S.48 All wheels must not exceed 8" in width.

S.50 All wheels must be steel.

S.51 Tires allowed will be 890 Hoosiers.

S.52 All tires must not be less than a Durometer reading of 52.

S.53 Cars must run on used tires only. Maximum tread depth allowed is 4.5/32 for all tires.

Section 6 Gear Ratio

S.58 Maximum gear ratio is 6.10:1 final drive with transmission in first or second gear. To find ratio multiply rear end gear ratio by transmission ratio.

Example: rear end gears 3.73 times transmission ratio 1.52 ($3.73 \times 1.52 = 5.67$).
You may run less than 5.75:1 but not more. No 1 to 1 ratios. All gears in transmission must remain same ratio as produced by OEM.