

SWS
STREET STOCK DIVISION
4/1/18

GENERAL RULES AND REGULATIONS

Note: No changes for 2018.

RULES AT A GLANCE

Stock OEM Chassis

Stock OEM type bumpers (15 to 18 inches center to ground)

3250 lbs minimum weight with driver after any points paying or qualifying event NO ADDING FLUIDS

54% left side weight maximum after any points paying or qualifying event.

108" minimum wheelbase

500 CFM 4412 two barrel carburetor

Any 108" to 112" **NON-CAMARO** - 3100LBS OR may run OEM 4 Barrel Carb (Quad, Holley) Max 750CFM @ 3250Lbs

Any car with auto trans - subtract 100 LBS

Straight plug heads

Hydraulic cams and lifters

Stock type ignition

Cast iron exhaust manifolds or steel headers

Any Cast iron or Aluminum dual plane intake manifold - Edelbrock Torker2 and Performer (P/N 2101, 2104 + Vortec P/N 2116 permitted)

Stock OEM steering and suspension components. Tubular steel front upper control arms are permitted.

Fiberglass bodies may be permitted with prior tech approval with weight penalty

Towel City Retread Tire

NOTICE: ALL EQUIPMENT IS SUBJECT TO THE APPROVAL OF TECH OFFICIALS. NO EQUIPMENT WILL BE CONSIDERED AS HAVING BEEN APPROVED BY REASON OF PASSING THROUGH INSPECTION. ALL MEMBERS ARE REQUIRED TO BE FAMILIAR WITH ALL SWS TRACK RULES AND ALL RULES IN THEIR DIVISION.

12.1 BODY REQUIREMENTS

- a. Any American name plate automobile, produced with a wheelbase of no less than 108" (inches). Coupes and sedans only.
- b. All cars must maintain complete body. Sheet metal may be updated through current models. No interchanging of MFG bodies and frames. All subject to tech approval.
- c. Original bodylines must be maintained. Stock appearing or fabricated panels OK. Roof must be OEM steel.
- d. Headlight covers are required. – Rear filler between trunk lid and rear bumper is optional
- e. Hood and deck lids pins are required. A minimum of 3 pins across front hood, and 2 across rear of deck lid. One (1) additional pin required for each additional missing hinge.
- f. Full stock floorboards and firewalls in stock locations required. All holes to be covered by sheet metal and welded in place.
- g. **Any Complete Fiberglass body approved (ADD 50 pounds)** The additional weight is intended to be a deterrent to eliminate any advantage, mechanical or aerodynamic.
- h. All doors must be bolted or welded shut.
- i. Nose must remain stock appearing, may be aftermarket. Stock appearing fiberglass or Plastic front groups are permitted. (i.e Front Fenders, Nose and Hood) Roof must be OEM steel.
- j. Rear trunk Floor area may remain open.
- k. Rear deck lid spoiler allowed, maximum 5" tall and no wider than car. Top three (3") inches of spoiler must be made of clear Lexan.

- L. Front lower spoiler or valances allowed. Air scoop for radiator allowed. No wider than Radiator.

12.2 WINDOWS

- a. A windshield made of clear Lexan must be used. Minimum thickness of 1/8" inch. Windshields must be supported between dash bar and roof halo bar with a minimum of two (2) evenly spaced metal straps 1/8" inch by one (1") inch, or a single 1-1/2" inch bar in the center of the windshield welded to the dash bar and the roof halo bar.
- b. Each car may have a rear window made of clear Lexan. Rear windows must be flat and not dished from roof to deck lid.
- c. ALL (side) window glass must be removed. A right side window of any type is NOT permitted. Side quarter windows behind the "B" pillar can be replaced with Lexan.
- d. Driver side window net is required on all cars. Net material must be a minimum of one (1") wide webbing. Net must be equipped with a quick-release device on the top left front corner facing the outside of the car. Seatbelt type buckle release is allowed.
- e. All mirrors including mount locations subject to specific tech approval.
- f. Left side mirrors are permitted.
- g. Screen mesh is permitted. If used screen mesh must be 1/2" square mesh minimum 1 inch Maximum. If mesh is used, a third protective strap must be installed. See tech for safe installation requirement of this component.

12.3 HEIGHT, WEIGHT, AND CHASSIS DIMENSIONS.

- a. Ride height rule has been intentionally removed - Any car sparking or dragging the track will be black flagged subject to starter and competition director's discretion.
- b. Cars must weigh a minimum of 3250 lbs with driver. (Any 108" to 112" NON-CAMARO - 3100LBS OR may run OEM 4 Barrel Carb (Quad, Holley) Max 750CFM @ 3250Lbs.
Any car with auto trans - subtract 100 LBS
- c. No more than 54% left side weight.
- d. Wheelbase must remain stock for year, make and model. May vary one half (1/2) inch side to side.
- e. Stock type bumpers required.
- f. Front and rear bumpers must be fastened to fenders and quarter panels in such a manner that will prevent hooking.
- g. Bumper height Front and Rear should measure 15 to 18" center to ground without driver in car.
- h. Lead may be added to reach minimum weight. Added weight must be in minimum five (5#) pound blocks, must be painted white and must have car number clearly visible on each piece. All added weight must be attached with a MINIMUM of two (2) 1/2 inch, grade 5 bolts. Any weight bolted to floor must be secured with washers to safely distribute load on sheet metal. Must meet tech approval.

12.4 SEATS AND SAFETY EQUIPMENT

- A. For all safety equipment. It will be the sole responsibility of the driver, not Speedway at Willow Springs, their agents/officials or corporate officers to ensure that his/her safety equipment is correctly installed, maintained, and properly used. Please refer to manufacturer installation and usage guidelines and adhere to them.
- B. Aluminum professionally built high back racing seat required. No plastic, etc.

- C. Padded headrest required.
- D. Seat must be securely bolted to a mount assembly that is an integral part of the roll cage at 6 points.
- E. Seat may not be attached to the floorboard.
- F. A five (5) point safety harness, with quick release is mandatory. 3” wide lap belt, 2” or 3” shoulder belts, and a 2” submarine belt. All belts shall be attached to roll cage using minimum 3/8 grade 8 hardware and safety cables.
- G. Cotton harness components prohibited.
- H. Safety harnesses/seat belts may be no more than three (3) years old. If necessary, proof of purchase may be required.
- I. Helmets; Head and Neck Restraint Devices:
 - i. Snell rated helmet required - SA2000 or newer.
 - ii. Full face helmets with Lexan face shield recommended.
 - iii. Nomex helmet, skirt, and Nomex covered chinstrap highly recommended.
 - iv. Horse Collar Mandatory - A HANS or Hutchens type head and neck restraint device is recommended.
- J. Window net mandatory. Minimum 1” mesh with release at top only. It is required that all window net releases be updated to the quick release seat belt type with releases located and facing the outside of the car. No close mesh off-road type allowed.
- K. Fire suit mandatory at all times.
- L. Approved racing gloves mandatory. No welding gloves, gardening gloves, etc.
- M. Approved racing shoes mandatory.
- N. Eye protection is mandatory and must be in proper place at all times.
- O. Current test date (2 pound minimum) fire extinguisher to be installed in the car within drivers reach while strapped in. Steel mounts only, no plastic.
- P. All cars will be required to have in their pits a minimum of one five pound, Halon or dry chemical fire extinguisher. This is to be visible to tech officials and all crewmembers. All crew members must be made aware of this location, and knowledgeable in the use of the fire extinguisher.
- Q. Car and driver will be required to rectify safety rules violations PRIOR to racing any event upon direction of tech.

12.4 ENGINE SPECIFICATIONS

- 1 Engine sizes:
 - 1. Chevrolet 350 CI Max .060 overbore.
 - 2. Ford 351 CI Max .060 overbore.
 - 3. Dodge 360 CI Max. .060 overbore.
- 1a All engines must produce no more than 200 PSI at 180 degrees water temperature in each cylinder on a SWS approved compression tester
- 2 No big block of any MFR. No aftermarket performance engines. Engines may not cross MFR lines.
- 3 Crankshaft must be centered between frame rails and will not be moved back or down on chassis.
- 4 No stroker or lightweight cranks allowed. Factory OEM cranks only.
- 5 Engine oil coolers allowed and must be mounted in engine compartment.
- 6 Aftermarket valve covers are allowed.
- 7 Modified oil pans are allowed. Must fit stock chassis.
- 8 Standard compression ratio: 10.5 to 1 maximum.
- 9 No performance blocks, heads, or engines from: SVO-ford, Direct Connection Mopar – Dodge, General Motors, Chevy, or Pontiac motor sport.

- 10 Heads: Stock cast iron heads only. Official interpretation of the words “stock cast iron”: stock head will be characterized as a cylinder head which was offered as standard equipment with no performance advantage.
- 11 No special performance options will be allowed. Including but not limited to, oversize valves, special cut valves, relocated intake or exhaust bowl or ports.
- 12 No porting, polishing or gasket matching allowed. Heads may be cleaned, hot tanked or cleaned by another method which does not remove metal.
- 13 No grinding, shot peening, acid etching, flow honing or any process to remove metal or change flow direction.
- 14 Stock steel valve train components only. 1. No oversize valves. 2. No back cut, swirl polished valves.
- 14a Aluminum, Steel or stainless steel roller rockers are legal. 1:5 ratio ONLY. No shaft rockers allowed.
- 15 Maximum valve head diameter: Chevrolet...1.94” intake....1.50”exhaust
Ford...1.78”intake....1.45”exhaust
Dodge...1.88”intake...1.60”exhaust
- 16 Screw in studs and guide plates allowed. Steel or aluminum Poly Locks and stud girdles are permitted
- 17 No titanium parts allowed.
- 18 Engine blocks must be OEM cast iron only. No performance or aftermarket blocks allowed.
- 19 Stock stroke for engine being used, (ie 350 CI Chevy = 3.48 stroke.)
- 20 Stock OEM replacement pistons only.
- 21 Stock rods only. Aftermarket rod bolts ok, and recommended.
- 22 Rods may be sized, balanced or bead blasted. No grinding, lightening or polishing of rods.
- 23 No performance rods allowed, stock length only. Rods may not cross manufacturer lines.
- 24 Any hydraulic camshaft. (NO ROLLER HYDRAULIC)
- 25 Hydraulic lifters only. Must remain stock diameter. Flat tappet ONLY
- 26 No mushroom lifters allowed.
- 27 Stock type timing chain and gears only.
- 28 No belts or gear drives allowed.
- 29 Cam gear may be indexed.
- 30 Magnetic steel push rods only.
- 31 No crank lightening or grinding allowed. No knife edging, gun drilling, etc.
- 32 No aftermarket cranks allowed. Stock OEM harmonic balancer only.
- 33 No stroker kits allowed.
- 34 Balancing of internal components is acceptable. Balancing and lightening are not the same (make sure your machinist knows the difference) Any procedure associated with a common rebuild is acceptable.
- 35 Holley #4412 or Holley Keith Dorton #80583 box stock except for the following:
1) gasket, bowls seal, accelerator pump squirter, power valve, jets, sight plug, choke plate and shaft may be removed.
- 36 Two (2) carburetor return springs required, must be mounted to engine. Throttle cable replacement recommended annually.
- 37 Maximum 1.25” carburetor adapter allowed. Bores in adapter will not be tapered or bowl shaped.
- 38 Stock Aluminum dual plane intake manifold permitted. Edelbrock Torker 2 and Edelbrock Performer p/n 2101 and 2104 are also permitted.
- 39 Chevrolet “602” crate motors are legal. No certification required.
- 40 No angle plug heads allowed

12.5 AIR CLEANERS AND FILTERS

- 1 No cold air induction allowed, standard air cleaners only.
- 2 [K+N or gauze type air filters OK](#)
- 3 Top and bottom of air cleaner must be solid and same diameter.
- 4 Tubes, funnels, or any device which may control the flow of air, will NOT be permitted inside the air cleaner or between filter housing and carb.
- 5 No vacuum leaks.

12-6 ENGINE LOCATION AND MOUNTS

- 1 Engine must be located in stock location [centered in frame rails](#).
- 2 [Bottom of engine oil pan must not extend below bottom of front cross member](#)
- 3 All mounts must be securely bolted. [Adjustable](#) mounts are NOT permitted.

12-7 ELECTRICAL SYSTEM

- 1 Stock type ignition only. No performance aftermarket distributors or magnetos allowed.
a) No MSD systems allowed. b) Magnetos, crank trigger, optically triggered or computerized systems are NOT permitted.
- 2 All cars must be equipped with a functioning starter located in the stock location
- 3 All cars must be equipped with a master electrical switch located in the cockpit of the car. The switch must be within reach of the driver and safety crew from both sides of the car.
- 4 Batteries must be securely mounted behind driver, forward of the rear end housing.
- 5 Batteries must be contained in electrically insulated container. Dry cell batteries are not required to be contained in a leak proof container. Subject to tech approval.

12.8 ENGINE COOLING SYSTEM

- 1 Water pump must be mechanically driven, must be located in the stock location, and must rotate in the same direction as the crankshaft.
- 2 All cars that have a functional fan at tech must run with functional fan through the race, no removing fan for qualifying. Fan must contain a minimum of four (4) blades, and a min. diameter of 14 inches. Free spin or clutch fans are NOT permitted.
- 3 Fan shroud is mandatory.
- 4 Electric fans permitted.
- 6 Water overflow catch can unit required. One quart min, vented onto lower right edge of windshield, metal or plastic, mounted in engine compartment.
- 7 No anti-freeze or similar products. This is a fineable offense.
- 8 Water wetter permitted.
- 9 Radiators must be stock appearing and remain in stock location.
- 10 [A Scoop for radiator is allowed. Radiator scoop must be no wider than radiator and direct air only to the radiator. This radiator scoop must maintain a minimum height of 3"](#).

12.9 ENGINE EXHAUST SYSTEMS

- 1 Stock cast iron exhaust manifolds are permitted. center dump ok.
Headers are permitted. Down and back, mild Steel chassis style headers only. No stainless steel. No over the top, step, 180s, TriY's, cones or pyramids. (i.e no merge collectors.) Only one gasket, maximum .075" thickness, may be used between the cylinder head and header. Header must bolt directly to head. Collectors and exhaust pipes may be no larger than 3" outside diameter. Two-into-one collectors are allowed. Maximum of two 3" inlets one 5" outlet. No Coatings allowed on headers. Insulating heat wrap OK. Hi Temp Paint OK.
- 2 Header style, center dump, or up swept manifolds allowed for ford or general motors products.
- 3 An approved muffler is mandatory. Violators will be disqualified.
- 4 Exhaust system must be located below floorboard and extend past drivers compartment.

12.10 DRIVE TRAIN

- 1 Clutch will be stock appearing. Steel ONLY.
- 2 Aluminum flywheels are NOT permitted. OEM only. No modifications of flywheels allowed.
- 3 Stock transmissions only. No modifications allowed. No gear removals allowed. Must have all gears operational for transmission used.
- 4 All cars must have a working reverse gear.
- 5 Scatter shields mandatory. All subject to tech approval.
- 6 Locked, limited slip, or posi-traction differentials are permitted.
- 7 Rear end must be centered in car.
- 8 Floater type rear ends are permitted.
- 9 Cambered rear ends are NOT permitted.
- 10 Automatic transmissions optional, torque converter must be operational. 10 inch Minimum Diameter. Auto Trans = **MINUS 100LBS**
- 11 Ford 9" rear end allowed. Must be mounted exactly as old rear end was removed, may be used in any MFR line.
- 12 Two (2) driveline straps, 1" x 1/8" required, mounting to be within 6" of the U-joints are required. Drive shaft must be painted white for no track visibility in the event it should become separated from the car.
- 13 No aluminum or composite drive shafts.

12.11 FRAMES/CHASSIS/ROLL CAGES

- 1 Full Nascar type roll cages mandatory. Bars must be a minimum of 1-1/2" OD -- .090 wall thickness, gusset as necessary for strength
- 3 Minimum of three (3) door bars required on both sides.
- 4 Drivers door bar plate must be 1/16" thick steel placed top to bottom front to rear upright. Must be welded to outside of bars.
- 5 Rear kicker bars may extend to rear cross member.
- 6 Fuel cell protector bar required. No wider than the width of the frame rails.
- 7 Main roll cage uprights must be fastened to floor of uni-body cars with a minimum 3/16" thick plate, top and bottom, at all four corners. Plate must be a minimum of 4" square, with 4 – 3/8" grade 5 or better bolts at each location.
- 8 No grinding of welds.
- 9 Roll bar padding must be used at any point where driver may make contact with roll cage.
- 10 Roll bar padding must be up to date. Hardened padding will not be permitted, and will be required to be replaced prior to competition. Roll bar padding must be SWS approved roll bar padding.
- 11 A radiator protector/front hoop is allowed.
- 12 Stock frames only. No modifications allowed. No full tubular or fabricated frames permitted.
- 12a Screw type weight jacks may be permitted on front only upon prior tech approval
- 13 All crash damage repair must be approved by SWS Tech.

12.12 SUSPENSION AND BRAKES

- 1 Stock OEM lower control arms only. must mount in stock location. No crossing OEM lines and no modifications allowed.
- 2 Upper control arm mounting must be in stock location. Stock uppers OK. Tubular upper A arms allowed. Must be steel, one piece. Steel or Aluminum cross shafts OK.
- 3 No slugs, bearings, heim Joints or eccentrics may be used on uppers or lowers.
- 4 Any OEM factory production type ball joints may be used. No mono ball joints.
- 5 Spindles must be STOCK for year and make of vehicle. No Pinto spindles.
- 6 Rated racing springs are allowed, front and rear.
- 7 "9" Ford rear end/floater ok. All steel. lockers and posi traction units are permitted. NO ALUMINUM. No cambered rear ends allowed.
- 8 Lowering blocks allowed.
- 9 All other suspension components must be of original design and origin for the chassis used. NO aftermarket look alike parts to widen suspension.
- 10 Use of any bleeder valves NOT permitted.
- 11 Rear disc brakes allowed. All components must be **steel only**.
- 12 Stock, 4 wheel hydraulic brakes required, and all must be in good working order. Aftermarket pedals or master cylinder assemblies allowed.
- 13 Adjustable brake bias valves allowed. Must be outside reach of driver
- 14 Front shocks in stock location are OPEN for valving.
- 15 Moving location of front shock mounts (i.e from inside spring to external mount) is permitted but will result in 50 LB weight penalty.
- a). For relocated shocks - any steel bodied shock will be allowed. No Schrader valves on shocks.
- 16 Maximum track width is 78" This will be a "Go, No Go" inspection. This measurement will be checked at the outside side wall of the left tire to the outside side wall off the right tire measured at center of spindle height with car race ready and driver in car.

- 17 Binding or "Bump Stopping" of suspension or shock absorber allowed. Left rear Only
- 18 Spring rubbers are approved.

12.13 STEERING COMPONENTS

- 1 Stock steering components only.
- 2 Quick release steering wheels are required. Quick connect must be made of steel or aluminum. A pad of at least two (2") inches thick must cover the steering wheel hub.
- 3 Steering column must be collapsible, 2 U-joints are acceptable per officials approval.

12.14 FUEL SYSTEM

- 1 All cars must be equipped with an approved fuel cell, securely mounted in the trunk area as far forward as possible.
- 2 Fuel cell must be mounted with steel framework- 1 inch x 1 inch, .060 inch min., and attached with a minimum of four (4), one-half (1/2") inch bolts to the frame rails. Fuel cell must have a vent hose and the hose must have a check valve in the end.
- 3 Fuel cell must be totally enclosed in an 18 gauge steel box with a 1/2" drain hole in the lower right rear corner. Ground strap required from fill neck to frame. Fuel cell cap must have a tether. Fuel cell will not be lower than 8".
- 4 Maximum fuel capacity is 22 gallons.
- 5 If fuel line runs through driver's compartment, it must pass through a metal tube sealed at both ends.
- 6 No electric fuel pumps permitted.
- 7 The gasoline shall not be blended with alcohols, ethers or other oxygenates. [No E85 Fuels.](#)

12.15 TIRES AND WHEELS

- 1 Steel wheels are Mandatory, maximum 8" width, any offset. [Minimum 19LBS per wheel](#)
- 2 5/8" wheel studs required on all four wheels.
- 3 One valve stem per wheel maximum. [The use of bleeder valves is strictly prohibited](#)
- 4 Wheel spacers optional. One spacer per wheel. 1/2" maximum.
- 5 Use of track specified tire is mandatory **TOWEL CITY 8" RECAP TIRE**
NO EXCEPTIONS.

13.1 LONG WHEELBASE CARS

Any gutted factory produced full frame car with wheelbase in excess of 112" may [weigh 3100LBS @ 54% left with 4 Barrel Carb. Minus Additional 100LBS with Auto Trans - Please contact SWS tech if you plan to run this combination.](#)

CHEVROLET CARS PRODUCED WITH 116" WHEELBASE AND LONGER

- A. 400 cubic inch small block with 4BBL Carburetor approved.
- B. This combination must weigh minimum 3100 lbs 54% left side weight after the race. Please call tech director if you plan on running this combination.
- C. Must comply with all other class rules.

NOTES:

AMENDMENTS MAY BE MADE AT ANY TIME. THEY WILL BE POSTED.

ALL DRIVERS WILL HAVE ONE RACE TO MAKE CHANGES.