

2018 Late Model Rulebook

ALL RULE REVISIONS FOR 2018 CHECK YOUR CORRESPONDING RULE BOOK FOR COMPLETE EXPLANATION.

2018 LATE MODEL RULE CHANGES

20G- 3.1.2 REAR SPOILERS

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PREFACE

The rules herein shall refer to Stafford Motor Speedway as “SMS”. These rules are intended to create affordable and fair competition. While they offer a good outline, every item cannot be covered by a written rule. If you have questions regarding something not detailed in these rules, please consult an SMS Official for clarification before proceeding. These rules are for SMS only with no expressed or implied agreement with any other speedway or series as to their interpretation, implementation and method of inspection by their technical inspectors and officials. No car, component or equipment will be considered as having been approved by reason of having previously passed through inspection unobserved. No car, component or equipment will be considered as having passed inspection for the event until the finish is made official. All engine models, equipment changes, or modifications not specifically addressed in the rule book by SMS must be submitted in writing for consideration of approval on or prior to September 2, 2017 unless otherwise authorized by SMS to be considered for competition for the 2018 season. All equipment is subject to the approval of SMS Officials. You may be assessed penalties including but not limited to: added weight, fines, loss of points, loss of handicapping, and suspension, car parts, components, and/or equipment deemed as not in compliance with these rules. Any car part, component, and/or equipment which does not conform to specifications or tolerances contained in the 2018 rule book or is not otherwise approved by SMS may not be used in competition in 2018.

By engaging in competition at SMS, you hereby agree to have read the SMS 2017 General rulebook and the 2018 SMS Late Model rulebook.

All 2018 NASCAR Whelen All American Series (NWAAS) rules will be enforced for the SMS Late Models, when applicable, with the following changes and/or additions (EIRI):

DRIVER ELIGIBILITY – All drivers must have a NASCAR CHD (Charger Division Driver) or higher license. Drivers competing in the Late Model division at SMS will not be permitted in the DARE Stock, Limited Late Model, or SK Light Modified® divisions on the same event date. Drivers must be minimum 16 years of age.

20G- 1 COMPETING CHASSIS- American made chassis with a minimum of 108” wheelbase as factory listed for that year and model must be used. Firebirds, Camaros, Mustangs other two passenger sports cars, convertibles, or station wagons are not permitted. Bodies may be interchanges between manufacturers (Ford or Dodge body on a GM Frame/Engine combo), but

engine and chassis must match. If you are in doubt about the eligibility of a year/make/model, please check with SMS Officials.

20G – 1.3 APPROVED COMPETITION MODELS-

The following are the 2017 approved steel body models eligible for competition:

STEEL

YEAR	MAKE	MODEL
2000 – 2005	Chevrolet	Monte Carlo
2006	Chevrolet	Monte Carlo SS
2001-2004	Dodge	Intrepid
2005-2006	Dodge	Charger
2000-2005	Ford	Taurus
2006	Ford	Fusion
2000-2003	Pontiac	Grand Prix

COMPOSITE

YEAR	MAKE	MODEL
2012 Metric	Ford	Mustang
2012 Metric	Chevrolet	Camaro
2007-2013	Chevrolet	Impala
2007-2013	Dodge	Charger
2007-2013	Toyota	Camry
2007-2013	Ford	Fusion
2007-2013	Chevrolet	Monte Carlo SS
2009-2013	Cadillac	CTS
2009-2013	Ford	Lincoln MKS
2009-2013	Pontiac	G8
2009-2013	Chevrolet	Malibu

20G- 2.1 BODIES – Bodies and their installations must be SMS approved. Body dimensions must remain as manufactured except for changes which may be necessary for tire clearance.

A. Cars must have complete bodies, which includes the hood, roof, front fenders, doors, quarter panels, front and rear bumper covers. The minimum thickness for any exterior sheet metal body part of the 2000 through 2006 steel body cars must be 24 gauge (0.025 inch thick) magnetic sheet steel.

B. Body mounts may be solid or adjustable, and may be made of metal, plastic or Polycarbonate.

C. Installation of aerodynamic or air directional devices of any type are not permitted.

Streamlining/contouring of body panels or windows is not permitted. Grilles must resemble OEM Stock in their dimension and location.

D. A full windshield and full rear window is mandatory. The windshield and rear window must be installed in their OEM Stock position, and must be sealed to the window beds using removable sealers/adhesives.

E. Fenders and quarter panels may not be modified except for wheel or tire clearance.

F. The interior area of the car must be completely enclosed from front to rear with firewalls made of not less than 24 gage (0.025 inch thick) magnetic sheet steel. The floor area on the left

side must not be lower than the top of the frame rails except directly under the seat where the floor may be dropped not lower than one (1) inch above the bottom of the frame rail. The floor area on the right side of the seat may be raised a maximum of eight (8) inches to the top of the drive shaft tunnel and extend to the right door panel. All interior panels must be welded.

G. Cars must be equipped with approved front and rear bumper covers for your year/make/model. Installation of aerodynamic or air directional devices of any type are not permitted. All SMS Late Models are subject to the NASCAR LMS body measurements. SMS Officials will use NASCAR LMS templates to insure conformity. All vertical measurements listed in the NASCAR rule book are plus one (1) inch for SMS dimensioning. With the exception of the 18¹/₄" minimum deck lid length, all other measurements listed that say minimum or maximum are considered as exact for the SMS Late Model division. All listed tolerances are built into the templates from the manufacturers. All listed vertical body measurements are checked with car at ride height. Older Late Models and Limited Late Models with higher roof heights will be adjusted according to the rule.

20G- 2.2 OVERALL CAR WEIGHT- All specified weight requirements are with the driver and race gear, seated in the car. The minimum weight at all times is 3,000 pounds. The maximum left side weight percentage is 56%. A "lead box" made from magnetic steel rectangular or square tubing may be welded to the outside edge of the driver's side frame rail. The bottom of the lead box may not be lower than the frame where it is attached. The lead box must have suitable end caps or bolts used to retain the lead. All lead boxes shall be acceptable to SMS Officials. All other weight must be bolted to the inside of the frame rail and above the lowest edge of the frame rail where the weight is mounted. Any car found to be under the minimum overall car weight allowance will be penalized one position for every pound under the minimum weight. This does not apply to left side weight requirement.

20G- 2.3 ADDED CAR WEIGHT- Lead is the only acceptable form of added weight. Weight must be in block form in no less than 5 pound blocks. Weight must be painted white with your car number on it. No weight is permitted inside the driver's compartment. Weight must be encased in steel and welded or bolted to the chassis or frame with two or more (Grade 5 minimum) bolts, minimum 3/8" diameter. All weight must be placed between the frame rails, and not lower than the frame at the point at which it is attached, and cannot be mounted forward of the front spindles. No weight is allowed outside or below the frame rails. Weight is not permitted inside any cross member, roll bar or any inaccessible area or component. "Lead boxes", if used, must have one end cap removable for inspection purposes. Weight shifting devices of any type are not permitted

20G- 2.4 CAR WEIGHTS AFTER RACE- Cars may be weighed at any time during the event, but always with the driver and helmet positioned in the seat. Nothing may be added, removed or changed on the car prior to being scaled. An amount equal to one half of one percent (.5%) of the total weight will be added to scale reading for loss in weight due to race wear (minimum weight of 2985 lbs.).

20G- 3 DETAILED BODY REQUIREMENTS- For detailed body installation and guideline dimensions, refer to the body diagram pages in the rule book. OEM Stock or steel aftermarket replacement bodies may be used. Hood and roof may be made of fiberglass. Front fenders and

rear quarter panels may be steel or plastic. All body panels must retain the OEM Stock appearance and dimensions as your make/model/year, and must be mounted in the OEM Stock location on the frame. Stock window openings must be maintained. All exterior chrome trim ornaments, outside mirrors and door handles must be removed. Replacement body parts must meet SMS templates. Body skirts or lower body rocker panel flares are not permitted. All body panels, frame rails, tubing and chassis mounts (except exhaust system) must maintain a minimum of 5" ride height at all times.

20G – 3.1 AERODYNAMIC DEVICES- Installation of aerodynamic or air directional devices of any type are not permitted. Streamlining/contouring of body panels or windows is not permitted.

20G- 3.1.1 FRONT AIR DAM- Air dam must maintain 5" ground clearance at all times. All support brackets must be mounted to the rear of the air dam. Brackets and mounts must not be used or installed as air directional devices. The leading edge of the air dam may not extend more than three (3) inches forward of the bumper measured at any point across the bumper. On all approved models, the leading edge of the air dam, when measured from the centerline of the right front spindle must not exceed 46 inches and must not be less than 45 inches. Front air dam extensions, made of flexible plastic type material, are permitted to be attached to the bottom of the front air dam (bumper cover). It must be flush mounted, stationary, securely fastened, single layer, not exceeding a maximum of 3/16 inch thick and maximum of five (5) inches in height and must be mounted parallel to the bumper cover. The air dam extension must be secured in a manner that will prevent movement of the air dam extension while in competition and maintain a minimum ground clearance of five (5) inches.

20G- 3.1.2 REAR SPOILERS- A non-adjustable freestanding clear polycarbonate solid rear spoiler is permitted. *Ru* Spoiler must be placed in the center (left-to-right) and at the rear edge of the trunk lid. The spoiler angle must be set at a minimum of 60 degrees. A maximum of two (2) one (1) inch wide non-adjustable supports on the front of the rear spoiler, or six (6) Five Star or ARP rear spoiler braces are permitted. All spoilers are subject to SMS Officials approval.

20G- 3.2 GLASS– All windows / glass must be clear (no tint permitted). A 1" wide border may be painted/taped on the sides of the front windshield. Full windshield is required made of clear 1/8" thick Polycarbonate or clear safety glass. The windshield must maintain the OEM Stock angle and fit the SMS template. The windshield must have a minimum of two (2) metal straps or braces 1/8 inch by one (1) inch installed inside the windshield. The straps must be bolted to the roof panel or roll bar at the top and the dash panel at the bottom with minimum 5/16 inch diameter bolts. A piece of rubber stripping must be installed between the windshield and straps. The straps must be installed in a manner that will not obstruct the vision of the driver. Windshield fasteners must be acceptable to SMS Officials. Driver and/or passenger side windows are not permitted.

20G- 3.2.2 REAR WINDOW- Full clear polycarbonate or clear safety glass rear window is mandatory. Two (2) metal straps or braces 1/8 inch by one (1) are required inside and outside. The rear window must maintain the OEM Stock angle and fit the SMS template. Access holes in

the rear window for the rear jacking bolts must not exceed a maximum diameter of 1-1/4 inches. The rear window must be securely fastened in place with bolts or rivets.

20G- 3.2.3 SIDE WINDOW GLASS/ WINDOW NET- All door window (side) glass must be removed. A clear flat polycarbonate vent deflector panel may be installed at the bottom of the windshield "A" post. The deflector may extend a maximum of eight (8) inches rearward from the lower rear edge of the "A" post. The rear edge of the vent deflector must be vertical. Quarter window openings must maintain the OEM Stock size, shape and location for your year/make/model. Quarter windows are mandatory, and they must be flat, clear polycarbonate and must cover the entire quarter window opening. If quick release fasteners are used, they must be the flush mount type. All other fasteners must be acceptable to SMS Officials. Only one (1) air inlet in each quarter window is permitted. The maximum hose size is three (3) inches. Ducts that are installed in the direction to create vacuum (suction) are not be permitted.

WINDOW NET- A commercially manufactured, SFI rated nylon window net must be installed in the drivers side door window opening. It must be positioned to cover the entire window opening. Window nets may not be used beyond three (3) years from the date of manufacture. The window net must be rib type, made from minimum 3/4 inch, maximum one (1) inch wide nylon material with a minimum one (1) inch and a maximum 2-1/4 inches square opening between the ribs. The minimum window net size must be must be 22 inches wide by 16 inches high. All window net mounts must be a minimum 1/2 inch diameter solid steel rod on the bottom and a minimum one (1) inch wide by 3/16 inch thick flat steel or a minimum 1/2 inch diameter solid steel rod on the top, with mounts welded to the roll cage. The window net must fit tight and be secured with a lever-type quick release latch. The lever must be secured by a detent ball in the lever and may be supplemented by Velcro® fastener only – pins or clips are not permitted. The latch must mount at the top in the front to roof bar (#3) and release from the inside.

20G – 3.2.4 HEADLIGHTS/TAILLIGHTS- Headlight, parking light, upper grille and taillight decals must be installed and be acceptable to SMS Officials.

20G- 3.2.5 REAR VIEW MIRROR- Only one (1) single image rear view mirror, mounted at the top of the windshield, no larger than 8" X 2" is permitted. Oversized mirrors may be blacked out by the use of paint only, to obtain the 8" X 2" maximum reflective area.

20G- 3.3 DASHBOARD- Stock unit may be removed but must be replaced with magnetic sheet steel, a minimum of 24-gage (0.025 inch thick), of similar design, and the full width of the body. All cars should have a removable inspection panel with a minimum size of 10" (ten) by 10" (ten) or 8" (eight) by 18" (eighteen) on top of the dash on the driver's side for inspection of all wiring under the dash panel.

20G- 3.4 FIREWALLS-

A. Front firewall must be no further than 2.250" from the front edge of frame rails, and be made of minimum .031" magnetic sheet metal with all holes covered using sheet metal a minimum of .031" thickness. The front firewall must extend down to the top of the frame. The bottom 8.0" may angle no more than 70 Degrees, before going upward at 90 Degrees.

B. Rear firewall must be made of minimum .031" magnetic sheet metal securely installed over

the rear seat back brace and top shelf or “hat rack”, completely closing off the trunk compartment.

C. The top shelf or “hat rack” must be positioned horizontal and approximately level, attaching to bar #7. On the driver side of the hat rack, there must be a containment area for the seat belts. This can be constructed by making a cut out 42” from the back edge of the hat rack. The inverted box should go from the top of the hat rack to the top of the #6 bar. This box should be approximately 13.500” by 8.250” and be angled at 70 degrees and must be welded in place.

D. The interior area of the car must be completely enclosed from front to rear with fire walls made of not less than 22 gage (.031 inch thick) magnetic sheet steel. The floor area on the left side must not be lower than the top of the frame rails except an area maximum 24 inches by 24 inches directly under the seat where the floor may be dropped not lower than two (2) inches above the bottom of the frame rail. The floor area on the right side of the seat may be a maximum eight (8) inches to the top of the driveshaft tunnel and extend to the right door panel. All interior panels must be welded. Door bars may not be paneled on the inside. All door bars above eight (8) inches must be visible from inside car. The floor must be sealed to the bottom of the door on both sides of the car. The rear seat area must seal to the rear firewall.

E. Door bars may not be covered on the interior of the car and must be visible for inspection from the inside of the car.

20G- 3.5 DOORS-

A. Doors may be steel or aluminum. External nerf bars, made of a maximum 1” round tubing may be used. The nerf bars must be located between the front and rear wheel only, be spindle height, must fit tight to the body panels, and must be painted the same color as the body panels that its attached to. The ends of the nerf bars must be turned into and go through the body or be bolted at the end of the bar with a flush bolt that goes through the body to an interior bar of the same length as the outside bar to prevent hooking. The outside bar must have the ends rounded. Spreading or narrowing of the body is not permitted. Doors must have OEM Stock contour.

B. Cars must have a magnet steel anti-intrusion plate minimum 0.090 inch thick, installed on the outboard side of the left side door bars. (See NASCAR rule book 20F-3.5-B for mounting instructions & diagram).

20G- 3.6 FENDERS- Front fenders and rear quarter panels may be steel, aluminum, plastic or approved composite.

20G- 3.7 GRILLES- Grill openings must remain stock for year/make/model.

20G- 3.8 HOODS, ROOF-

A. Hoods may be made of steel, aluminum, fiberglass or approved composite. The sides of the hood must seal tight to the fenders. The back of the hood (including the raised area of the scoop) must fit tight to the windshield. The hood must be in place at all times.

B. Hood must be held closed with quick release pins across the front. Quick release pins or hinges may be used across the rear.

C. Holes in the hood or any functioning air scoops are not permitted. Hoods must lay flat.

D. No openings or cut-outs are permitted in the hood.

E. All roofs must be the same size and shape of a production roof. Steel or fiberglass roof

permitted. Roof panels must be permanently mounted in the stock position the same as a stock production roof for the year/make/model being used.

20G- 3.9 REAR DECK LIDS/TRUNKS- The rear deck lid / trunk may be steel or aluminum. Fiberglass is not allowed. The rear deck lid must maintain the same dimensions, angles and bodylines as the stock production car. Lid may be held closed with quick release pins and/or hinges. Complete taillight panel and bumper cover must be run.

20G- 3.10 BUMPERS/BUMPER COVERS- The bumper & bumper cover must be acceptable to SMS Officials and meet the following requirements:

A. The front and rear bumpers and/or bumper covers must be installed in the same location as far as height, width and depth as a stock factory production bumper.

B. Magnetic steel tubing must be used to reinforce the front and rear bumper covers. The tubing that is used for the main structure of the bumper must not be exposed and must remain behind the bumper covers.

C. The front and rear bumpers/bumper covers must be solid. Holes are not permitted.

D. All front and rear bumper covers must be painted the same color as the car including bolts and rivets.

MANDATORY REAR BARS- *To help create a better alignment of all “front bumper -to-rear bumper” contact, two bars made of 1 ¼” OD round magnetic steel tubing must be added to the fuel saver bar, and connect to the bottom of the main rear bumper bar. These two bars may have one 90 degree bend in them, and may be bolted or welded in place. These are the only bars that will be exposed from the bumper cover.*

20G- 3.11 IDENTIFICATION–

A. Numbers / Graphics- All car number configuration and design is subject to approval by SMS Officials. Single or double-digit numbers are permitted. The size, color, and style of numbers must be adequate to permit prompt identification by SMS Officials at all times. Numbers must be solid, at least 18 inches high, measured vertically, excluding borders and silhouettes, must be neatly attached to or painted on both sides of the car on the center of the door. Door numbers must be a minimum of four (4) inches in width, and slant no more than 30 degrees from vertical. The tops and bottoms of all numbers must be even (not staggered). Two (2) digit numbers must have a minimum separation of two (2) inches between the numbers including borders. All graphics must have a minimum separation of two (2) inches from any number including borders. A solid number 24 inches high, excluding borders and silhouettes, must be neatly attached to or painted on the roof, reading from the driver’s side. Solid numbers, as large as possible, must be attached to or painted on the uppermost corner of the right side windshield and the right rear taillight cover. The use of number decals is acceptable if SMS Officials determine that the number is legible. Mirror foil numbers and decals are not permitted. Paint schemes using a mirrored or holographic appearance are not permitted. All car numbers are owned by and will be assigned by SMS Officials for use by the car owner. Car numbers are not transferable or assignable by the car owner.

B. Decals and Advertising- SMS may refuse, restrict, or assign the size or placement of decals, identification, and advertising of any kind on a car for any reason. SMS may refuse to permit a Competitor to participate in an Event if we determine that any advertising, sponsorship or similar agreement to which the Competitor (or a car owner, driver or crew member associated with the

Competitor) is or will be a party, is detrimental to the sport, to NASCAR, Series Sponsor, or to the Promoter for any reason, including without limitation, the public image of the sport. Decals, advertising logos, text or identification of sponsors are not permitted on the most rearward vertical portion of the rear bumper cover. Decals, advertising logos, text or identification of sponsors are not permitted forward of the hood pins on the front of the car. Decals, advertising logos, text or identification of sponsors must not be on the roof panel unless otherwise authorized by SMS Officials. Decals, advertising logos, text or identification of sponsors must not extend past the seam between the hood and front fenders.

20G- 3.12.1 BODY TEMPLATES- Templates may be used. The decision of SMS Officials is final. All vertical body measurements are measured at cars race ready ride height.

20E- 4 GENERAL ENGINE REQUIREMENTS- The only approved engine for GM is the CHEVROLET 350. Engine block must be OEM cast iron V8 production block new casting #1006603, old casting # s (3970010, 3970014, 14010207 ,14010209, 14011064, and 14016379), or the DART SHP. The maximum decking of the block is 9.00". Angle milling of block deck is not permitted. Offset dowel pins are not permitted. De-flashing, grinding, welding or painting of any internal area is not permitted. Maximum overbore is .065". A maximum static compression ratio of 10.5 to 1 is permitted.

These SMS Spec Engine rules are intended to create a standardized rule package to reduce cost and increase the level of competition. With the exception of engine machined components, all Spec Engine listed parts and components must be used as purchased, with no modifications permitted, unless otherwise noted.

20E- 5 DETAILED ENGINE REQUIREMENTS- All parts for the Spec Engine must maintain manufacturers overall dimensions and weight. All Spec Engine parts must be installed as supplied, with no machining or modification except where noted. We will add a list of Spec Engine component part numbers. Approved part numbers are as follows:
GM BLOCK – 10066034, 3970010, 3970014, 14010207, 14010209, 14011064, or 14016379 , or the DART SHP.

PISTONS- Wiseco Pro Tru-PT003H, JE SPR-157076, Manley-59053

Minimum ring thickness permitted is: Compression rings 1/16", Oil ring assembly 3/16"

RODS- Manley-14104-8, 14050R-8, or Crower Sports Rods- SP3205

OIL PAN – Moroso-123412 or Canton-11-122

VALVES- Manley Intake 11596 or 11864, Manley Exhaust 11543 or 11863

CRANK- Scat Cast or Steel – 9-350-3480-5700, Callies Magnum Series, or Manley 190190.

INTAKE- second generation Edelbrock 2101

HARMONIC BALANCER- ATI 917260 or 917320 or BHJ CH-IBF-6-C

CARB SPACER- Big Haus U.S.A. # 001

FLYWHEEL- 10,000 RPM- 1019 (12.5 lb), RAM- 1510,

Flywheel must maintain a minimum weight of 12 lbs (bolts not included).

20E- 5.1 ENGINE LOCATION-

A. Engine must be in the OEM Stock location for a V8 in your year/make/model chassis. OEM Stock engine location is: The distance between centerlines of the forward most fuel pump bolt

hole to the upper idler-arm mounting bolt hole measures 8.75" inches +/- .25" inch. All bolt holes/locations must be OEM Stock.

B. The crankshaft centerline (vertical dimension) to ground may be a minimum of 12-3/4", measured at the harmonic balancer when car is at 5" ride height.

20E- 5.5 PISTONS/RODS- Wiseco Pro Tru -PT003H, JE SPR- 157076, or Manley-59053 piston must be used. Manley-14104-8 or 14050R-8, or the Crower Sport Rod- SP3205 must be used.

A. The approved piston must retain all its manufactured dimensions and weight. The JE and Manley pistons must maintain a 2.50" pin length. Wiseco pistons must maintain a 3.00" pin length. Gas porting of any type is not permitted. All rings must be installed, working and of magnetic steel. Stainless, z-gap, gapless, or Dykes type rings are not permitted. No portion of piston may protrude above the top of the block. The minimum ring thickness permitted is as follows: Compression rings 1/16" Oil ring assembly 3/16".

B. Only magnetic steel non-coated piston pins maintaining a minimum diameter of .927" inch are permitted. They must be contained by bushings only (no bearings of any type). Full floating pins are permitted. Wrist pins may not be coated.

C. Piston pin holes must be in a fixed location in the piston and connecting rods.

D. Only two-piece insert style connecting rod bearings are permitted.

E. The approved rod must retain all of its manufactured dimensions and weight. Only normal engine balancing and the use of after-market bolts and nuts are permitted. No de-burring, de-flashing, polishing, grinding or lightening is permitted. Rod length must be 5.700".

G. Minimum weight for piston, pin, ring, bearing and rod assembly is 1185 grams.

20E-5.5.4 OIL PAN- MOROSO #12312 or Canton #11-122 pan must be used. Pump must be stock steel type in-the-pan only. No external components permitted except for standard oil cooler. An inspection plug, installed per SMS Officials, is mandatory.

20E-5.6.2 HEADS- Dart part number 10024266 cylinder head casting must be used. The casting part number must be purchased as completely produced by Dart, custom ordering of partial production/finishing is not permitted. The Dart casting is produced with, and must maintain a 62cc combustion chamber, a 2.02" intake valve and a 1.60" exhaust valve. Machining the valve guide bosses for seals and machining the gasket surfaces is permitted. The addition of screw-in studs, guide plates, valve spring seats, valve seals, poly-locks or jam-nuts is permitted. Coolant lines are permitted on the front/rear ends of the heads. Coolant lines are not permitted on the side of the head. Max Intake port volume is 177cc. Max Exhaust port volume is 71cc. The Intake to pin measurement must be no less than 6.050". The ports/runners, combustion chamber, area under the valve seat, the valve angle and location must remain as produced by Dart, with no modifications of any type permitted. The EGR port may be blocked off at the intake gasket area only, by use of a metal shim on one surface of the gasket. The exterior of the casting may be painted. A maximum of 2 intake mounting holes may have HeliCoils. Intake and exhaust mounting holes may not be added or relocated. Holes must take standard dimension bolts. No other machining or modifications of any kind are permitted.

VALVES- The Manley intake valve #11596 (111 grams), Manley intake valve #11864 (114 grams), Manley exhaust valve #11543 (95 grams) or Manley exhaust valve #11863 (102 grams)

must be used. Valve stems must have a minimum diameter of 11/32 inch. Valve lifter weight is 85 grams minimum. All parts must maintain production dimension and weight.

VALVE JOB- When cutting the valve seat angles, no stone or grinding marks are permitted above the bottom of the valve guide. All cutting in reference to the valve job must be centered off the centerline of the valve guide. Competition style multi-angle valve job is permitted. The bowl area must pass the 360 degree "ball" check (the appropriate sized ball must not fall into the guide area when rolling around on the valve stem). Intake is a .787" ball. Exhaust is a .531" ball. Surfaces and/or edges where the cutter or stone has touched must not be polished. No hand grinding or polishing is permitted on any part of the head.

VALVE SPRINGS & RETAINERS- OEM Stock type magnetic steel retainers that weigh a minimum of 30 grams (retainer only) must be used. Valve springs may be single or double springs, but must be parallel wound. Barrel wound, conical wound springs, or beehive type springs are not permitted. Double springs must have a diameter between 1.450" and 1.437". Valve springs must have a height of 1.700" to 1.800". Retainer locks must be magnetic steel, and must be Machine 7 degree, Super 7 degree, or 10-degree types only.

20E- 5.7 CRANKSHAFT-

A. The Scat Cast or Steel Crank # 9-350-3480-5700, Callies Comp Star series crankshaft, or the Manley #190190 may be used. The main and rod journal sizes are .020" under for the main and .030" under for the rod journals. Stroke must be 3.480".

B. Small journal or Honda pin crankshafts are not permitted.

C. Machining or polishing of the crankshaft counterweights is not permitted. Normal standard engine balancing is the only acceptable modification that can be performed on this component. No painting or Teflon coating. No capping of the counterweight holes. Crankshafts must maintain the manufacturers' dimensions.

D. Minimum crankshaft weight is 46lbs.

E. The Power Bond # PB1012-ss , ATI 917260 , 917320, or the BHJ CH-IBF-6-C harmonic balancer must be used.

20E-5.8.1 CAMSHAFT- K15 or P55 cast core camshafts must be used (Billet steel cores are not permitted). The maximum camshaft bearing journal size is 1.875" (47.5mm). Camshaft may not exceed .550" lift at the valve with zero lash.

20E – 5.8.2 VALVE LIFTERS-

A. A .842" diameter magnetic solid steel valve lifter must be used. Roller tappets, ceramic valve lifters, tool steel solid lifters, mushroom valve lifters, and any type of mechanical assistance exerting a force to assist in closing the valve and/or push rod commonly known as rev-kits are not permitted.

B. Valve lifters can weigh no less than 85 grams.

20E- 5.8.3 ROCKER ARMS- Aluminum or stainless stud mounted roller rocker arms are permitted. 7/16" studs may be used. Steel 5/16" x .080" wall push rods must be used. Chevrolet must run 1.5 ratio rockers. Stud-girdles or aftermarket shaft rocker systems are not permitted.

20E- 5.9 INTAKE MANIFOLD– A second generation Edelbrock #2101 intake manifold must be used. This intake must contain the made in the USA stamp. There are no modifications or alterations permitted to the intake manifold. No porting, polishing, acid dipping, deburring, de-flashing, abrasive cleaning, internal painting, milling, cutting, drilling holes, enlarging bolt holes, matching of ports or welding. An SMS supplied intake manifold must fit your engine complete with stock gaskets. All bolt holes must be in alignment and same size as stock. Coolant lines are only approved from the water neck to the back side of heads. The maximum thickness allowed for the Intake gasket is .064”.

Note: SMS Officials reserve the right to swap competitors intake manifolds as part of their routine post-race tech process.

20G- 5.10 CARBURETOR – Holley two-barrel model #4412 carburetor must be used. All parts must be a Holley manufactured part for the 4412 model. Polishing, grinding, resizing or reshaping of any part or orifice is not permitted. The body, base plate, metering block, and bowl must be a standard Holley 4412 part, HP parts are not permitted. OEM type gaskets, jets and power valve must be used. The diameter of every hole in carburetor must pass the standard NASCAR /SMS pin and tooling gauges as part of our routine tech process.

(1) Body of carburetor and metering block: No polishing, grinding or reshaping of any part. Drilling of additional holes or plugging holes is not permitted.

(2) The choke may be removed, but all screw holes must be permanently sealed.

(3) Choke Horn: Choke horn may not be removed.

(4) Boosters: Boosters may not be changed. Size or shape must not be altered. Height must remain standard.

(5) Venturi: Venturi area must not be altered in any manner. Casting ring must not be removed.

(6) Alterations to allow additional air to be picked up below the opening of the venturi such as altered gaskets, base plates and drilling holes into the carburetor will not be permitted.

(7) Base Plate: Base plate must not be altered in shape or size.

(8) Butterflies: The stock Holley 4412 or Stainless Steel Holly part #346 butterflies must be used. They may not be thinned or tapered. The Butterflies must remain as manufactured, and must maintain the Holley production tolerance thickness of .0438” to .0398”. Idle holes may be drilled in butterflies. Screw ends may be cut even with shaft but screw heads must remain standard.(9) Throttle Shaft: Shaft must remain standard and must not be thinned or cut in any manner.

20E- 5.10.2 CARBURETOR SPACER –***The Big Haus U.S.A. spacer #001 must be used.***

Additional openings for the induction of air are not permitted. All spacers must be approved by SMS Officials.

20G- 5.12.1 AIR FILTER / AIR FILTER HOUSING-

A. Only a round dry type paper air filter element with a diameter of 12” to 14”, and a height of 1-1/2” to 4” must be used. All air must be filtered through the element.

B. A steel or aluminum air filter housing must be used. The air filter top and base must be round and identical in diameter. The top of the air filter housing must be solid (no holes). A one (1) inch maximum height lip is permitted from the air filter element to the outer edge of the air filter housing top and bottom. The air filter housing base may have only one 5” minimum diameter hole in it for mounting on the carb flange. A shield may be installed to the front area of the air

filter housing up to a maximum of one half of the air filter circumference. The shield must not be higher than the height of the air filter element. The air filter housing must be centered and sit level on the carburetor. No air induction, ducts, baffles, tubes, funnels or anything else which may control the air entering inside of, or between the air filter and carburetor.

C. A spacer may be used between the air filter base and the carburetor, however the bottom of the air filter element must measure within one (1) inch of the carburetors top flange.

D. No part of the air filter or air filter housing may protrude through the hood.

20G – 5.12.2 AIR INTAKE, ENGINES –

A. The Five Star C5 (cold air box) part #000-5224 or its exact equivalent may be used.

B. Cars with hood scoops may have an opening to feed the cold air box as follows: an opening measuring a maximum of three (3) inches in height by twenty six (26) inches in width may be created. It must be centered at the rear (base) of the hood scoop. Cars with a flat hood (no hood scoop) may feed the air box as follows: A cowl opening with a maximum dimension of three (3) inches by twenty six (26) inches is permitted, centered, at the base of the windshield.

C. A magnetic steel fabricated cold air box will be approved as long as it meets the exact dimensions and appearance of part #000-5224. You must run either the standard round air filter housing from rule 20G- 5.12.1, or the cold air box from rule 20G – 5.12.2.

FIVE STAR Part # 000-5224



RECOMMENDED ENGINE BUILDER LIST

R.A.D. AUTO MACHINE 80 RAVENWOOD DR. LUDLOW, MA 01056	Don Wood 413-583-4414
T/A ENGINES 124 HILL TOP ROAD PLANVILLE, CT 06062	Tony Alteri 860-747-6713
PERFORMANCE ENGINES 79 HAYES STREET TORRINGTON, CT 06790	Billy Mathes 860-489-0363
PETTIT RACING ENGINES 44 OLD STATE ROAD UNIT 38 NEW MILFORD, CT 06776	Mike Pettit 860-354-3339
LARRY'S AUTO MACHINE AIRPORT IND. PARK GROTON, CT 06340	Gary Espinosa 860-449-9112
CARLQUIST COMPETITION ENGINES 98 FALLS AVE. OAKVILLE, CT 06779	Bill Carlquist 860-247-0742
EAST COAST MACHINE 59 OLD BROADWAY NORTH HAVEN, CT 06473	Peter Chillemi 203-996-8767 eastcoastmachine@yahoo.com
AUTOMACHINE LLC. 55 NEWBERRY ROAD EAST WINDSOR, CT 06088	Dave Miller 860-627-9244
ANDY'S AUTO MACHINE 48 LEWIS STREET PLAINVILLE, CT 06062	Andy Krawiec 860-793-2455 andrewkrawiec@snet.net
SPECIALTY PERFORMANCE ENGINES 160 OLIVER ROAD LEBANON, CT 06249	Brian Kowalshyn 860-917-3436 specialtyperformanceengines@hotmail.com
ROBICO RACING ENGINES 537 OLD COLCHESTER ROAD SALEM, CT 06420	Bob Lecce 860-859-0804 rclecce@yahoo.com
FLETCHER'S COMPETITION ENGINES 52 DEVONSHIRE ROAD MILFORD, CT 06460	Len Fletcher 203-283-3737 lenfletcherracing@aol.com

20G- 6.1 IGNITION SYSTEM – Electronic distributors are permitted. All electronic distributors must be in stock type housings, have stock type controls and modules, be equipped with a magnetic pickup, be gear driven, and be mounted in the stock location. Billet distributor housings are permitted.

B. Single or dual point camshaft driven distributors are permitted.

C. Only one (1) ignition coil is permitted and must be mounted on engine side of the firewall.

- D.** Electronic firing module amplifier box is not permitted.
- E.** Computerized, multi-coil, dual electronic firing module box or crank trigger systems are not permitted. Magnetos are not permitted. All ignition systems are subject to approval by SMS Officials.
- F.** Adjustable timing controls are not permitted.
- G.** Retard or ignition delay devices will not be permitted.
- H.** Only the MSD #8727CT or the MSD #8728 External RPM limiter may be used. The violet wire of the MSD # 8728 must be cut back flush to the unit's housing. The green and the white wires of the MSD # 8728 must run directly to the coil negative. The MSD # 8728 must be mounted out of reach of driver.
- I.** Accessories to regulate the power supply are not permitted.
- J.** The tachometer wire must run from the distributor to the tachometer along the #8 dash bar separate from any other wires and in unobstructed view for inspection. The tachometer wire must be isolated from any other wires, connections or devices. The entire length of the tachometer wire must be visible from distributor to the gauge.
- K.** The Vacuum advance unit may be replaced with a manual non-electronic timing adjuster that does not extend more than two inches beyond the distributor housing.
- L.** GM firing order must be 1-8-4-3-6-5-7-2.
- M.** The manufactures cylinder identification sequence is as follows: G/M Front 5-1 6-2 7-3 8-4

20G- 6.2 STARTER – Stock type starter only. Must be in stock position and operate at all times.

20G- 6.5 BATTERY – One (1) 12-volt Gel or Glass Mat type battery with a minimum weight of 17 lbs is mandatory. The battery must be located in an enclosed battery box, complete with a cover behind the front spindle but no further back than to have the front surface of the battery flush with the firewall or in front of the rear axle housing behind the rear firewall. The battery must be completely closed / sealed off on the drivers side of the firewall. The battery box must be mounted inside the outside edge of the frame rails and must not extend below the bottom of the frame rail. Any battery that would be installed during the race must be installed in the battery box. Accessories to regulate the power supply will not be permitted.

20G- 6.7 ACCESSORIES – No onboard computers, automated electronics, recording devises or digital readout gauges of any kind are permitted.

20G- 6.7.1 RADIOS – Are mandatory for communication between driver and crew. SMS reserves the right to monitor and broadcast radio communications between the drivers and crews as well as the right to revoke any and all communication privileges of the driver and crew if at their sole discretion and judgment that communication is being misused in any way.
Waddell Communications – www.waddellcommunications.com 860-573-8821

20G- 6.7.2 SPOTTERS – Spotters are mandatory. Every car must have a spotter monitoring SMS race control by way of scanner or radio, located in front of SMS Race Control tower with radio communication to their car.
Waddell Communications – www.waddellcommunications.com 860-573-8821

20G- 6.7.3 TRANSPONDERS – Transponder are required on the cars at all times. See the SMS General Rules for locating transponders properly. Any car not registering a transponder signal during practice will be black-flagged to be made aware of their scoring transponders failure and is required to remedy it before proceeding further in the event.

20G- 7 ENGINE COOLING SYSTEM – Only Water or SMS approved coolants or additives may be used in the cooling systems.

20G- 7.1 WATER PUMP

A. Steel or aluminum OEM type only. Electric pumps are not permitted.

B. Modifications of stock impellers are not permitted.

D. Any serpentine, cog or V-belt pulley system is permitted.

20G- 7.2 FAN – Electric fans are permitted.

20G- 7.4 RADIATOR

A. Passenger steel or aluminum car radiators only. Radiators may be interchanged between makes and models but must be stock type. Radiator must be in stock location.

D. All cars must be equipped with an approved overflow catch can under the hood by the right front fender. The over flow hose coming out of the catch can must run and up through a fitting in the cowl, at the base of the windshield on the right side.

20G- 8 ENGINE OIL SPECIFICATIONS – Combustion enhancing oils or additives are not permitted.

20G- 9 ENGINE EXHAUST SYSTEM

A. Headers must be used, and must meet the following: Headers must be a commercially manufactured part using a 1- 5/8” outside diameter steel primary tube. They may be a maximum of 30” in length, with a 3” outside diameter collector pipe. Primary tubes must exit down. The header collector pipe cannot be reduced at any point between the primary tube and the exhaust pipe. Chevrolet must use one of the following or exact equivalent: Hedman #68600, Schoenfeld #185 or Dynatech #01-21900, Kooks stainless steel L/M Headers, P/N 15055 or 6250200, Flow Rite P/N FR250FF, Flowrite FR275FF. Ford must comply with all other specifications and be approved by SMS Officials.

B. Stepped and 180-degree headers are not permitted.

C. The exhaust header flange must mount directly to the cylinder head with no spacers between the flange and the cylinder head. A maximum header flange thickness of ½ inch is permitted.

D. Inserts are not permitted in any part of the header or collector. Merge, crossover and pyramid collectors are not permitted.

E. Exhaust pipes must be of 3” dia. exhaust tubing and run from the header back to within 12” of the rear end housing, then turn down a minimum of 45 degrees. Pipes may not exit out the side of the car. Both exhaust pipes must be independent with no connection between them.

F. Mufflers: – You must use two of the following: LOBAK # RCM 30-12-30, Kooks R300-10 s, or Flow-Right P/N FR300. Modifications or repairs of any type are not permitted on the muffler. Both Muffler flanges must be intact. Mufflers must be removable for inspection.

NOTE: The life expectancy for all LOBAK mufflers is two years. You are responsible to make

sure their mufflers are in proper working order. Mufflers that are rotted/deteriorated are illegal.

G. Thermal wrap is not permitted anywhere on exhaust system.

H. Only one muffler and exhaust pipe per side of car is permitted.

I. Exhaust system subject to approval by SMS Officials.

J. Interior and exterior coatings are permitted.

20G – 9.3 HEAT SHIELDS- Heat shields of any type are not permitted.

20G- 10 ENGINE DRIVE TRAIN – FLYWHEEL AND CLUTCH – Flywheel- OEM Stock dimension steel, or aftermarket replacement billet steel flywheel for engine type, weighing a minimum of 16lbs must be used. Flat surface machining allowed only on the face of the flywheel, any cutting or machining on the back side of the flywheel is not permitted. Pressure Plate- OEM stock type 10” steel pressure plate must be used. See weight requirement below. Clutch Disc- OEM stock type 10” steel full 360 degree disc or Magnus part # 384152F and 384152C must be used. Drilling or lightening of any part is not permitted. Solid magnetic steel fasteners must be used. Pressure plate & clutch disc combined minimum weight – 16 lbs. (fasteners not included).

Clutch disc minimum weight 2.5 lbs. and a maximum weight of 3.8 lbs. (fasteners not included).

20G- 10.3 BELL HOUSING – Only a commercially manufactured magnetic steel bell housing may be used. The bell housing must enclose the flywheel 360 degrees with minimum 3/16” inch magnetic steel. Any modifications you make to the bell housing must be done with 3/16” steel and welded in place (no bolt on pieces). A commercially manufactured bell housing (like the Quarter Master # 008110440) with a bolt on bottom cover may be used. An opening no larger than 3- 1/2 x 4 inches may be used for throw out bearing access. This hole may be covered with sheet metal.

20G- 10.4 TRANSMISSION

A. An OEM Stock production “manual” 3 or 4 speed transmissions must be used. Top loader transmissions are not permitted. Gear ratio must be of stock OEM production.

B. Only cast iron housings are permitted. Aluminum or magnesium transmission housings are not permitted.

C. OEM type, steel, angle cut forward gears are permitted. Square cut forward gears are not permitted.

D. The removal of first gear, or replacement of first gear with a metal spacer, in 4-speed transmissions is permitted. All other forward and reverse gears must be in working order, and they must be operational from inside the driver’s compartment. All transmissions must have a constant engagement of the input shaft with gear and countershaft with cluster gears.

E. Machining or lightening of any internal rotating or non-rotating parts including gears, shafts and case is not permitted. Gun drilled transmission shafts are not be permitted. Welding on any internal part is not permitted. External oil pumps and oil coolers are not permitted.

F. Additional or different from OEM bearings other than the tail-shaft, which may have roller bearings, are not permitted.

G. Auxiliary, over or under drive transmissions are not permitted. High gear must have a ratio of 1 to 1 and no other gear may have a ratio higher than 1.20 to 1.

H. Only fire resistant type shifter boots, secured with fasteners, acceptable to SMS Officials is

permitted. The shifter boots should must meet the SFI 48.1 specification and display a valid SFI 48.1 label visible on the outside surface of the shifter boot. Quick release fasteners should not be used to secure the shifter boot. The shifter boot, when installed, should be completely sealed to the floor of the car. Installation of the shifter boot must be acceptable to SMS Officials. Shifter boots should not be used beyond three (3) years from the date of manufacture.

I. Heating pads, blankets or any other heating devices are not permitted at any time.

J. Transmission vent/breather hose & filter assemblies must be located within the transmission tunnel and must not extend forward of the vertical front firewall. Remote transmission reservoirs and/or fill tubes are permitted. All transmissions must contain a minimum of one (1) quart of lubricant. The shifter and all of its components must be made of steel or aluminum.

20G- 10.5 DRIVESHAFT

A. An OEM type magnetic steel drive shaft, universal joints, and yoke must be used. The drive shaft must be made of one-piece magnetic steel and must be 2-3/4 inches or 3 inches in diameter.

B. Two (2) 360 degree solid magnetic steel brackets with no holes or slots, not less than two (2) inches wide and 1/4 inch thick, must be placed around the drive shaft. The front bracket must be welded to the rear suspension cross-member and the rear bracket must be welded or bolted, with a minimum of two 3/8 inch diameter bolts on each side, to the horizontal tunnel bar (#6). **C.** All drive shafts must be painted white.

20G- 10.6 REAR AXLE – The rear axle must meet the following requirements: Rears may be changed between different makes and models. If a FORD rear is used in a GM chassis, the rear hubs may be drilled for the GM bolt pattern.

A. The center of the rear end housing must be within 1" of the centerline of the track width, front and rear.

B. Differential gears must be welded or replaced with a steel spool. Posi-traction, limited-slip or ratchet differentials are not permitted.

C. Only one-piece, magnetic steel rear end axle housings are permitted.

D. Racing axles are mandatory on both sides for all GM rears. Full floating straight-cut double splined rear axles may be used. Only one-piece solid magnetic steel axles are permitted. Hollow or drilled axles are not permitted. Full floating double splined rear axle minimum weight is 9.0 lbs.

E. Magnetic steel axles, drive plates, bearings, and axle housings are allowed. Aluminum parts are not permitted in or on the rear housing assembly (except for the axle caps and brackets for third link).

F. Cambered rear axle housings or other cambered components (axles, drive flanges, etc.) will not be permitted. Crown type axles or spline adapters will not be permitted.

A tolerance of 1-1/2 degrees of camber (positive or negative) will be permitted.

G. Only magnetic steel drive plates, the same thickness on the left and right side are permitted. The drive plates must be one-piece with a single straight cut internal spline. Grease fittings are permitted on drive plates and axle caps.

H. Upper trailing arms may be replaced with steel arms with heim joints or rubber mounts. A steel panhard bar or watts link may be used. Heim joints or rubber mounts are permitted. Upper arm must be a maximum of 13 inches from the vertical centerline of the rear axle to the centerline of the forward mounting point. Shocks or springs are not permitted on trailing arms.

I. The right rear lower trailing arm may be as described below or you may use the Hamm

adjustable trailing arm # GHC-1937J. The Hamm #GHC-1937J arm may not be modified or altered. OEM Stock, DCA lower trailing arms P/N 17812, JCI-03-01M&B, JCI-03-02-M&B, BFR P/N 1782, Hamm's Welding GHC-1925 or GHC-1950 must be used. OEM Stock lower trailing arms may be plated for added strength, which will make them equal to the DCA replacements. Lower trailing arms for the chassis used must attach to the frame in the OEM Stock location. Mounting brackets on the axle tubes may be moved but rear axle housing must be centered in chassis. Left and right brake rotors must be an equal distance from the frame rails. **J.** Springs must be mounted on axle housing in stock location for frame being used.

20G- 10.6.1 REAR GEAR – A Stock type magnetic steel ring and pinion must be used. The ring gear must weigh a minimum of 12lbs. Rear gear components may not be lightened or machined, they must remain stock as manufactured. The spool with 2 bearings (less bearing cups) must weigh a minimum of 7 lbs.

GEAR RULE: Ford rear must use either a 4.86 or 5.00 final drive. GM rear must use a 4.88 final drive.

20G- 10.7 WHEELS – Magnetic steel racing or wagon wheels are mandatory. Maximum wheel width is eight (8) inches. The offset of all four wheels must measure the same (+ or – 1/4"). No part of any tire may be outside of the body. Only solid, one-piece, heavy-duty 5/8 inch magnetic steel lug bolts and standard one (1) inch hex by minimum 0.650 inch thick, fully-threaded, solid, one-piece magnetic steel lug nuts are permitted. The first thread on each lug bolt must be visible from the front of the lug nut when the lug nut is installed. Modifications to the lug bolt or lug nut are not permitted. Bleeder valves are not permitted. Tape is not permitted on the wheels. Any device, modification or procedure that is used to release pressure (beyond normal pressure adjustments) from the tire is not permitted.

20G- 10.8 TIRES – Hoosier Tire East of Manchester, CT. is the sole tire supplier for the Late Model Division. The size and compound numbers are **TBD** on the left side and **TBD** on the right side. Tire purchases prior to the first scheduled race of the season may be made at Hoosier Tire East. After the first event of the season all tires used at SMS must be purchased at the track on race day. Each tire will carry a special bar coded serial number. The legibility of the bar code is the sole responsibility of the team. This number will be scanned and entered into a database designating it as a tire for use at SMS. Each scanned serial number will be placed on a Tire Inventory that will be assigned to the driver that the tires have been purchased for. In the event a driver changes cars for qualifying or feature racing, his tire inventory must accompany him to the new car. Each driver must update and return a Tire Inventory Card to the SMS Tire Delegate. For the first race of the season, Late Model drivers will be allowed a maximum of ten (10) tires in their inventory. For each completed event attended a driver will be issued two (2) tire credits distributed as follows: The completion of a qualifying event (EIRI) will allow a driver to receive one tire credit and taking the green flag in the feature will allow a driver to receive one tire credit except for events where pre-qualifying is in use in which case the driver will be awarded two tire credits for taking the green flag in the feature. These tire credits may be used at any future race event. The amount of extra tires allowed for longer distance feature events will be determined by SMS Officials. After a designated number of weeks into the season and at the discretion of SMS Officials, any new driver will only be allowed to start their season off with six (6) new tires and

two used ones (total of 8 inventoried tires). The maximum number of tires allowed in a driver's race inventory throughout the season will be sixteen (16) for the Late Model division. Once a driver's inventory has filled up to 16 tires, that driver must begin to manage their inventory by replacing used/junk/scrap tires. Tires that you throw away must have their barcode number designated as such. Please notify the SMS Tire Official of any tires you discard and will not use. SMS Officials may change or amend this rule at any time. If a tire cannot be identified, it will be considered illegal. SMS Officials may confiscate and/or impound tires at any time for inspection. The JTR Eagle PPM Tester will be set at a fixed level and will be strictly enforced throughout the 2017 season.

20G- 10.8.1 PHYSICAL REQUIREMENTS –

F. Minimum Tire Pressures for all inspection purposes are fifteen (15) psi for both left side tires and twenty five (25) psi for both right side tires. Air may be added to the tires to achieve only the minimum tire pressures during inspections, per a track provided tire pressure gauge.

NOTICE: Any participant competing in any event at SMS specifically agrees that they acknowledges that it is illegal to soak or treat racing tires and that said soaking or treatment of racing tires is against EPA regulations and further contains carcinogens and hazardous material which are unfit for his/her health and the health of all competitors and spectators. Any participant found violating the rule may subject to suspension.

20G- 11 FRAMES All frames must be OEM Stock for year/make/model. Front and rear spring pockets may be altered for jacking bolts. No plating or reinforcing of the frame in any way beyond or outside of the following specifications. Unibody cars are not permitted. All frame rails, tubing, and chassis mounts must maintain the minimum ride height clearance of 5" at all times.

An SMS approved mandrel bent front sub-frame may be attached eighty six (86) inches from the rear axle centerline.

An SMS approved rear-sub frame may be attached from the rear of the main frame rails.

Any frame competing with factory OEM main frame side rails must remain OEM.

If any part of the OEM frame (Center-section) main rails is replaced, the parts must be replaced with stock OEM GM frame sections.

A. The front frame horns may be replaced with 2" X 3" .083" square tubing from the forward most 1/2" measuring hole to the front bumper. No other part of front frame rails can be replaced with tubing. The front cross member must remain stock. The raised portion of the front cross member may be replaced with steel flat stock welded in flush with the rest of the cross member, maintaining a minimum two inch (2") thickness of the stock cross member for oil pan clearance only.

C. Rear frame rails may be replaced with 2" x 3" .083" magnetic steel square tubing from the rear edge of stock upper crossmember back, only if following stock configuration height, width, and length. Optionally the replacement rear frame rails may extend parallel rearward maintaining a minimum width of the stock frame rails width at rear most edge of the upper crossmember. The upper crossmember may be removed.

D. Frame rails may not be offset or shortened.

E. Frames must measure within ¼ inch of all factory specifications for year/make/model used. All measuring cups or holes must remain unaltered.

F. Tubing of a size and length that will not protrude from the stock frame may be located inside the driver's side frame rail. All roll cage bars normally attaching to the drivers side frame rail must be welded directly to the supplemental tubing.

G. Tubing may be utilized as a replacement for the stock transmission crossmember. Any non-stock replacement transmission crossmember must be located perpendicular at 90 degrees to the stock frame rails and no further towards the rear of the car than to have the rear edge of the tubing even with the rear edge of the transmission hosing.

H. Additional X-tubing may be added so long as the tubing connects to the crossmember and is not one continuous piece running from corner to corner of the stock frame. The X-tubing must attach within the two corners of each frame turnout. The X-tubing cannot extend past any of the frame turnouts and must not be attached to the perimeter frame rails short of the frame turnouts.

FORD FRAMES – Ford full-size frames, (LTD, Crown Victoria) 1979 and newer may be shortened to 108" wheelbase. Frame must be shortened in center section only using the same area on both sides.

20G- 12. 1 SPRINGS – One (1) spring rubber insert, not to exceed one (1) full coil, acceptable to SMS Officials will be permitted on each spring. Only one (1) spring per wheel will be permitted. Progressive or digressive rate springs are not permitted. Any wrapping or binding of the coils will not be permitted. All upward and downward chassis movement must be limited by the springs rate or the bottoming of the chassis against the race track. Any compression or rebound limiting device or procedure is not permitted. One of the ways SMS Officials will check for chassis travel limiting devices is as follows: With your car's front wheels rolled up onto 2x6 wood planks, the car's valence (air dam) must travel downward beyond the top of the wood plank (over-travel the ground) when three (3) crewmembers push down on it.

Front Coil Spring– Must meet the following: Manufactured from round magnetic steel wire. Consistent wire diameter from top to bottom. May not exceed \$95 in retail advertised price. All the coils must be active. Maintain consistent spacing between coils. 8-1/4" to 11" in free height. 5-1/4" to 5-3/4" OD.

Front Spring Mounts- The front coil spring mounts must be located on the lower A-frame for the bottom mount and the top mount must be a bucket-type and be welded to the front sub-frame rails and be the same on both the left and right side. The front coil spring upper mount plate must be attached to the front jacking bolt in a manner acceptable to SMS Officials. Monoball(s), excessive taper, bevels, or other devices on the end of the front jacking bolt, the front coil spring mounting plate, the front coil spring mounting bolt or in the front upper spring mount will not be permitted. The hole in the front coil spring upper mount plate must be round and must not be larger than 1/16 inch diameter than the front coil spring mounting plate bolt. The upper and lower coil spring mount must support the front coil spring for 360 degrees of each coil spring mount. The upper coil spring seat must be flat. Thrust-type bearing plates with a maximum diameter of 1-1/8 inches will be permitted between the end of the jacking bolt and the face of the spring seat. Heavy-duty solid metal jacking bolts, with a minimum diameter of 1-1/8 inches, utilizing right-hand threads, and a single thread count of not less than 12 threads per inch for the entire length of the jacking bolt, must be used. The jacking bolts must be installed, using a solid threaded sleeve welded completely into the frame spring bucket, in a manner acceptable to SMS

Officials for the purpose of raising or lowering the car. Jacking bolts and the threaded sleeves must be the same thread configuration on the left and right side. Front jacking bolts will not be permitted to be located through the frame rails. The front jacking bolts when measured from the inside wall of the front sub-frame rail to the center of the jacking bolt mount must not be less than three (3) inches and not more than four (4) inches. The front jacking bolts must be mounted on the centerline of the front crossmember, plus or minus (+/-) one (1) inch. The front jacking bolts must be in the same location on both sides. The front jacking bolts must be perpendicular to the sub-frame rails. The front jacking bolts must be mounted on the vertical centerline of the lower spring bucket.

Rear Coil Springs- Must meet the following: Each rear coil spring may not exceed 400 lbs in rate. The spring will be checked for rate through several inches of travel, and must remain at the 400 lb rate (+/-) throughout the travel range. Manufactured from round magnetic steel wire. Consistent wire diameter from top to bottom. May not exceed \$95 in retail advertised price. All the coils must be active. Maintain consistent spacing between coils. Both coil ends closed and ground. The closed ends of the coil spring must not have a gap larger than 1/8". 10" to 15" in free height. 4-3/4" to 5-1/4" OD.

Rear Spring Mounts- All upper and lower rear coil spring mounts must be located between the rear frame side rails. Only one (1) rear jacking bolt frame mount per side will be permitted. Jacking bolts will be permitted to be located through the frame rails. The center of the jacking bolt must not extend further than the center of the frame rail from the inside edge. Jacking bolts located through the frame rails must have a solid sleeve extending through the frame from top to bottom and be welded completely into the frame rails. Heavy-duty solid metal bolts (jacking bolts), with a minimum diameter of 1-1/8 inches, utilizing right-hand threads, and a single thread count of not less than 12 threads per inch for the entire length of the jacking bolt, must be used. Jacking bolts and threaded sleeves must be the same on the left and right side. The rear jacking bolts must be mounted on the vertical centerline of the lower spring mount. Monoball(s), excessive taper, bevels or other devices on the end of the rear jacking bolt, the rear coil spring mounting bolt or in the rear upper spring mount will not be permitted. The hole in the rear coil spring upper mount plate must be round and must not be larger than 1/16 inch diameter than the rear coil spring mounting bolt. The upper and lower coil spring mount must support the coil spring for 360 degrees of each coil spring mount. The upper coil spring seat must be flat. Thrust-type bearing plates with a maximum diameter of 1-1/8 inches will be permitted between the end of the jacking bolt and the face of the spring seat.

20G- 12. 2 SWAY BARS- OEM Stock or stock type replacement sway bars may be used. The sway bar must be magnetic steel, one-piece, and can be no larger than 1-1/4" (1.250") in diameter. The sway bar must be used as it is manufactured. Modifications to the sway bar are not permitted. Front sway bar must mount under the frame, in the stock location, and attach to the lower A-Frames in their stock location. One side of the front sway bar may push on a "pad" area on the lower a-frame, the other side must attach with bolts or heim joints. Rear sway bar must mount similar to OEM Stock style. Rubber bushings may be replaced with metal bushings or eye/lollypop type mounts. Heim joints (spherical rod ends) may be used for attaching the sway bar ends to their mounts. Front sway bars must be for the purpose of anti-roll only. The front

sway bar must freely rotate in its mounts. The movement of the front sway bar arms must not be prevented or restricted beyond that of normal use as an anti-roll bar.

20G- 12.3 SHOCK ABSORBERS- KONI shocks with the following part numbers must be used:

Fronts: 30-7325, 30-7436, 30-7647.

Rears: 30-9325, 30-9436, 30-9414.

The stock KONI bump rubber must be removed. No other alterations / modifications are permitted to the shock. The KONI five (5) way crimp seal must be on the shock. Only one shock permitted per wheel. Rear shocks must be mounted to the cross member inside the frame rails.

Front shocks must be installed so that the shock can extend a minimum of 2" when car is at ride height.

Rear shocks must be installed so that the shock can extend a minimum of 2" when car is at ride height.

Shocks may be swapped at any time with Stafford Motor Speedway inventory by Stafford Motor Speedway Officials.

20G- 12. 4 A-FRAMES

A. Lower A-frames must have a stock appearance and be mounted in stock location. Lower A-frame must be OEM stock, or the Johnson Chassis part numbers JCI-09-02-001 (L-R) & JCI-09-02-002 (L- R), or the Hamm's Welding part numbers GHC-1425727 (L-R) & GHC-1425727-10deg.-R in stock location for the chassis being run. The lower A-Frames are not allowed to be altered from OEM configuration, except for the flat surface of the right front Ball joint helix end may be cut and moved 10 degrees for ball joint bind clearance purposes only, when Chrysler screw-in type ball joint is used. The only other additions that will be allowed to the A-Frames will be the shock mount and the Sway-bar perch or mounting bracket. The A-Frames must be acceptable to SMS Officials.

A-1. The length of the lower a frame, either Stock OEM or the approved aftermarket ones, must be 14-1/4 inches, from the center of the ball joint to the centerline of the mounting points. A-frames must fit no-go template. The location of the center of the lower ball joints must be an equal distance from the centerline of the front sub-frame rails plus or minus (+/-) 3/8 inches. Both lower A-frames must be the same length (no offsets permitted). The General Motors Type A-frame must be constructed using magnetic steel tubing. General Motors type A-frame must weigh a minimum 12-1/2 pounds complete with ball joint, bushings and/or monorails, and coil spring Helix.

B. Upper A-frames may be stock or nonadjustable tubular magnetic steel.

C. Lower ball joints may be replaced with "pressed-in" stock type extended lower ball joints in stock position or with standard factory stock OEM production Chrysler screw-in type or standard factory stock OEM production Chrysler screw-in type direct replacement ball joints in the stock location on the A-frames.

D. User rebuildable or serviceable ball joints will be permitted, adjustable and "mono" ball joints are not permitted. Ball joints must be stock appearing, heavy-duty magnetic steel construction and must be acceptable to SMS Officials. The ball joints must not have any adjustment with the exception of a free play adjustment in the housing for the ball and socket. The total length of the ball joint pin from the top of the ball joint housing to the top of the pin must not exceed 3.375 inches for both upper and lower ball joints.

E. Only one (1) non-adjustable lower A-frame front mounting hole per side in the chassis or A-frame will be permitted. Vertical adjustments for lower A-frames will not be permitted. An eccentric type adjuster or slug type adjustment may be used on the rear mounting bolts.

F. Upper A-frame cross shaft may be steel or aluminum.

G. Rubber bushings may be replaced with metal but cannot be offset.

H. The spring buckets in the lower A-frame must be round magnetic steel and must not exceed a maximum 6-1/2 inches in diameter. The distance from the center of the spring bucket to the center of the ball joint must be eight (8) inches plus or minus (+/-) 1/4 inches and must be the same on left and right sides. A spring seat (helix) must be bolted securely in place.

20G- 12. 5 SPINDLES AND HUBS

A. One piece non-adjustable, heavy-duty magnetic steel aftermarket spindles with unaltered stock pin must be used. Both left and right spindles must be of the same make, design and offset. Bolt on steering arms are permitted and must be made of magnetic steel.

B. Offset spindles are not permitted. Both left and right spindles must be of the same make, design and offset with the same outside measurement. The measurement from the top side to the bottom side of the outside mounting surfaces must be the same from left to right.

C. Heavy duty, magnetic steel, tapered wheel bearings must be used.

C-1. Bearing spacers are not permitted.

D. Wide Five or Grand National hubs are not permitted. A steel or aluminum aftermarket hub with GM configuration is permitted.

E. Stock track width and offset must be maintained. Two standard steel wheel bearings, a wheel bearing seal, a torque nut and a standard nut locking mechanism are the only components permitted on each spindle/hub assembly.

20G- 12. 6 TRACK WIDTH – Maximum track width measured outside the tire bulge at wheel center height is 74-3/4 inches. Steel or aluminum spacers will be permitted to utilize the maximum allowable track width. Spacers, if used, must be the same thickness left and right, however, the front and rear do not have to match.

20G- 12. 7 WHEELBASE – The allowed wheel base will be 108” on the left and right side with a (+ or-) of 3/4” on either.

GROUND CLEARANCE – A minimum of five (5) inches of ground clearance must be maintained at all times measured at the lowest point of the frame rail. No part of frame, body, chassis mounts, tubing, sheet metal or bumper may be lower than 5” from the ground. All ground clearance requirements are with the driver in the car.

20G- 12. 9 BODY HEIGHT – Minimum height for the roof is 49” measured at the roof centerline 10” behind the stock windshield opening.

20G- 12.11 WEIGHT TRANSFER DEVICES – Jacking bolts are permitted on the front and rear springs. Upper rear spring perch may be trimmed only enough to accommodate new pocket. No hydraulic jacking devices. No self-sliding jacking devices. Handles must be removed from jacking bolts before the car is moved.

20G – 13 STEERING COMPONENTS The car steering components must be acceptable to SMS Officials and meet the following minimum requirements:

- A. All cars must be equipped with a magnetic steel steering shaft.
- B. All steering boxes must be mounted in the stock location and the stock position at an angle of not less than 10 degrees on GM type front sub-frames. Any means of raising or changing the steering box position will not be permitted.
- C. Tie rods, drag links, pitman arms, idler arms, and component parts must be heavy duty magnetic steel. Holes and/or other modifications in steering components that, in the judgment of SMS Officials, have been made with the intent of weight reduction will not be permitted.
- C-1. An OEM center link, or a stock type replacement is permitted.
- C-2. The following adjustable center links are permitted: Johnson Chassis # JCI-09-02 center link ALL Star Performance # ALL56330 center link Hamm's Welding # GHC-17255-LM center link.
- D. The center top of the steering post must be padded with at least two (2) inches of resilient material acceptable to SMS Officials.
- E. A quick-release steering wheel coupling with a metal housing, acceptable to SMS Officials, must be used. The steering wheel coupling should meet the SFI 42.1 specification.
- G. Rack and pinion steering will not be permitted. All steering components must be made of magnetic steel including but not limited to, drag links, pitman arms, idler arms, steering arms, and steering boxes.
- H. Only magnetic steel spoke steering wheels will be permitted.
- I. The power steering pump must be mounted and driven off the front of the engine.
- J. All steering boxes must be constructed of magnetic cast steel.
- K. The use of two (2) universal joints, a minimum of 12 inches apart, in front of the firewall and a collapsible steering section in the steering shaft is recommended and must be acceptable to SMS Officials.
- L. Stock type steering box must be used. Rack and pinion steering will not be permitted.
- M. Inner tie rod: Tapered fit, non-threaded pin, magnetic steel tie rod end must be used on the inner tire rod. Outer tie rod: Tapered fit, non-threaded pin, magnetic steel tie rod end or heim joint (magnetic steel spherical rod end) is permitted. Tie rod sleeve: Stock OEM type or aftermarket radius rod (steel or aluminum) may be used. Tie rod sleeve bolts and/or jam nuts must be magnetic steel.

20G- 14 BRAKES – Stock type hydraulic brakes, operating all four wheels is required. Stock type single piston steel caliper disc brakes are allowed on front and rear. Two-piece steel rotors may be used, however only the “hat” may be aluminum. Only magnetic cast iron or cast steel round circular rotors are permitted. Rotors must not be drilled, slotted or grooved. Only factory dust clean out allowed. The brake rotors must be bolted directly to the hubs. Floating brake rotors are not permitted. All rotors and brake components subject to SMS Officials approval. Master cylinder(s) must be single stage design. Drilling or lightening of rotors or drums is not permitted. Adjustable proportioning valves are allowed. Accu-brake type systems are not permitted.

20G- 14.2 – BRAKE COOLING

No electric blowers will be permitted for cooling purposes in brake duct systems. Additionally, there will be no electric blowers permitted anywhere on the car for cooling (i.e. brakes, rear end, etc.).

20G- 15 FUEL SPECIFICATIONS

A. SMS has instituted an approval process for all racing gasoline. The intent of this rule is to help control costs, to eliminate very expensive fuel blends and fuel additives, to prevent engine damage from untried concoctions, and to insure that the fuels used are available to all. Only the specific fuels listed alphabetically below are permitted for use in the Late Model division for practice or competition at SMS. Any blending of fuels or use of any additives is not permitted. This list may be updated or amended from time to time.

<u>Brand name</u>	<u>Grade of fuel</u>
Sunoco Race Fuel	260GTX
Sunoco Race Fuel	Supreme

These fuels are available for purchase at SMS.

Several testing procedures will be utilized to insure that all racers use only one of the approved fuels. Competitors are required to indicate the single approved fuel used to SMS officials at the time of sampling. Any and all fuel samples taken must exactly match all of the manufacturer's printed specifications for that brand and grade of fuel, or penalties will result.

B. Icing or cooling of the fuel system is not permitted in the garage, pit or racing area.

C. Gasoline may be tested and certified at any event through the application of various chemical analyses as considered appropriate by SMS Officials. Gasoline may be checked before, during and after the racing events.

D. Nothing may be placed in the fuel line other than a standard fuel filter. The use of any type of fuel catalyst or other fuel-altering devices is prohibited.

20G – 15.3 FUEL SAMPLES SMS Officials have the right to sample a Competitor's fuel at any time during the Event. Samples will be impounded for observation and/or testing at the discretion of the SMS Officials.

20G – 16 FUEL SYSTEM SMS Officials will not permit the use of any previously approved fuel cells, containers, or check valves that appear to be damaged, defective, or do not function properly. Fuel cell vent pipe check valves are recommended. Check valves and the fuel cell must be acceptable to SMS Officials. Pressure systems will not be permitted. Any concealed pressure type containers, feed lines or actuating mechanisms will not be permitted, even if inoperable. Icing, freon type chemicals or refrigerants must not be used in or near the fuel system.

20G- 16.1 FUEL CELL – Must meet NASCAR specifications with a fuel cell bladder made of a material that returns to its original size and shape after deformation. Rotational molded bladders are not permitted. It is highly recommended that the fuel cell bladder be no more than six (6) years old. Competitor must provide bladder model, serial number and date(s) to SMS Officials before competing. If a gas cap is used it must be painted white with the car number on it for identification. For additional specifications see the NASCAR Rulebook. The minimum requirement for approved fuel cells at SMS are as follows: ATL Super Cell "100" FB1 – Series Bladders. (Note: the complete cell will be the SU1- Series), and the Fuel Safe Sportsman Cell

(SM Series). Any cell that is rated above these cells (ATL 200 & 500 series), and the Fuel Safe Pro Cell (PC Series), will also be approved for competition at SMS.

20G- 16.2 FUEL CELL CONTAINER – A fuel cell container must be used and must be acceptable to SMS Officials and meet the following minimum requirements: The fuel cell must be encased in a container of not less than 22 gage (0.031 inch thick) magnetic sheet steel. Fuel cells must be fitted within the container so that the maximum capacity, including filler spout, will not exceed 22 gallons. The 22-gallon capacity fuel cell container size must be 33 inches by 17 inches by 9-1/4 inches (outside dimensions). Handles should be attached to the top at each end in the center of the fuel cell container for removal from the recessed well. The exterior of the fuel cell container must be coated/painted red. A single magnetic steel anti-intrusion plate may be installed on the bottom of the fuel cell framework. It may be no larger than the bottom of the cell, and it may be a maximum of 1/8” thick.

20G- 16.3 FUEL CELL / CONTAINER INSTALLATION – The fuel cell and fuel cell container must be installed in a manner acceptable to SMS Officials in accordance with the following minimum requirements: The fuel cell and the fuel cell container must be installed as far forward as possible in the trunk compartment equal distance between frame rails, with a minimum 8-inch ground clearance with the car’s frame set on five inch (5”) high blocks under all four outer corners of the frame. The fuel cell container, installed in the recessed well, welded or attached to the sub-frame rails, from the top, must be secured on the top by a flat fuel cell top rack made of one (1) inch by one (1) inch by 0.065 inch minimum thick square magnetic steel tubing meeting the ASTM A-500 specification bolted without removable spacers through the tubing on the top side with the bolts continuing through the tubing of the bottom support frames with a minimum of eight (8), 3/8 inch diameter bolts. The flat fuel cell top rack must consist of two (2) tubes lengthwise and two (2) crosswise equally spaced across the top of the fuel cell container. The fuel cell container, installed from the bottom of the trunk compartment must be inside a recessed well that covers the bottom and all four (4) sides. The fuel cell container and recessed well must be secured on the top by the fuel cell top rack made of one (1) inch by one (1) inch by 0.065 inch minimum thick square magnetic steel tubing meeting the ASTM A-500 specification bolted or welded without spacers into the tubing on the top side with the bolts continuing through the tubing of the bottom support frames with a minimum of eight (8), 3/8 inch diameter bolts. The fuel cell top rack must consist of two (2) tubes lengthwise and two (2) crosswise equally spaced across the top of the fuel cell container. The front and rear fuel cell crossmembers must be constructed using a one (1) inch wide by two (2) inches in height with a minimum wall thickness of 0.065 inch magnetic steel tubing meeting the ASTM A-500 specification. The bottom support frame must be constructed using three (3) tubes, one (1) inch by one (1) inch with a minimum wall thickness of 0.065 inch square magnetic steel tubing meeting the ASTM A-500 specification, and must be equally spaced across the recessed well. These tubes must be welded or bolted to the fuel cell front and rear crossmembers. The support tubes must extend down the front and rear equally spaced and under the fuel cell container. A reinforcement bar, minimum 1-1/2 inches in diameter and with a minimum wall thickness of 0.083 inch magnetic steel tubing meeting the ASTM A-519 specification, must extend below the rear frame section behind the fuel cell. This reinforcement bar must be as wide as the rear sub-frame rails and extend as low as the bottom of the fuel cell with two (2) vertical uprights evenly spaced between the rear sub-frame rails and attached to the rear crossmember. Two (2) support

bars, one (1) located on each corner, must angle upwards and be welded to the rear sub-frame rails. The maximum distance permitted from the center of the rear axle to the center of the reinforcement bar is 37- ½ inches.

20G- 16.4 FUEL FILLER / VENT REQUIREMENTS –

20G- 16.4.1 FUEL FILLER –A twist in fuel filler cap assembly bolted from the inside of the left rear quarter panel and located in the side as high and as far back as possible OR on top as far to the left as possible but not in the deck lid is allowed. Fueling by opening the rear deck lid will only be permitted under non-competition conditions.

20G – 16.4.2 FUEL CELL VENT The fuel cell must be vented as follows: A single one (1) inch maximum inside diameter vent to outside of body must be installed at the left rear corner in the taillight area only. A fuel vent flap valve is recommended on all tracks. The fuel cell check valve vent hose neck should not exceed one (1) inch inside diameter and three (3) inches in length. The fuel cell check valve vent hose neck should have a bead around its outside circumference for hose retention. The fuel cell vent flexible hose must have a maximum inside diameter of 1-1/4 inches and a maximum length of 60 inches when measured from the outside end of the fuel cell vent pipe to the top of the fuel cell fill plate. The hose should be secured with two (2) hose clamps at the fuel cell fill plate.

20G – 16.5 FUEL LINES /FUEL PUMP Electrical devices or electrical connections will not be permitted on the fuel cell, fuel lines or between the fuel pump and the fuel line assembly. Fuel pressure may only be measured from the rear of the carburetor fuel line assembly.

20G – 16.5.1 FUEL LINES The fuel lines and fuel line connections must be acceptable to SMS Officials and meet the following requirements: The size, material, and location of the fuel cell pickup must be acceptable to SMS Officials. Only one (1) fuel line, a maximum AN-10 fitting, maximum 5/8 inch inside diameter steel braided fuel line, should be used from the fuel cell to the fuel pump. A check valve, acceptable to SMS Officials, mounted at the fuel line outlet on the fuel cell may be used. Additional lines or extra length must not be used on the fuel system. Extra fuel lines or fuel cells, concealed or otherwise, will not be permitted. Quick disconnect fittings will not be permitted.

20G – 16.5.2 FUEL PUMP The fuel pump must be acceptable to SMS Officials and meet the following minimum requirements: Electric fuel pumps will not be permitted. Cooling of the fuel pump will not be permitted. Only mechanical, lever-action, camshaft actuated fuel pumps in the stock location will be permitted. A magnetic steel plate is required between the engine block and the fuel pump on General Motors engines. Thermal plates or gaskets will not be permitted.

20G- 16.5.3 FUEL SHUT-OFF – A 1/4-turn fuel shut-off valve of minimum 3/8-inch NPT with minimum 4-inch handle is required in the fuel line. The fuel shut-off valve must be located 8-inches inboard of the passenger side frame rail's outside edge and 24-inches forward of the main roll bar (#1 bar). The fuel shut-off valve must be mounted securely to the under side of the driver's compartment sheet metal. The fuel shut-off valve shank must protrude through a maximum 1-inch diameter hole in the sheet metal to the interior of the driver's compartment.

The fuel shut-off valve handle must be parallel with the sheet metal that the valve is mounted to. The fuel shut-off valve handle must be a minimum of 4-inches in length, red in color with a minimum of 1-inch clearance from the sheet metal throughout its full travel. A minimum 6-inch by 6-inch square area must be painted white with the fuel shut-off valves ON and OFF positions clearly labeled with 1/2-inch tall, black in color lettering. The shut-off valve must rotate clockwise from the ON position with the handle parallel with the frame rail, pointing towards the rear of the car, to the OFF position with the handle perpendicular to the frame rail pointing toward the driver.

20G- 17. 4 ROLL BARS – The following are additional requirements and clarifications for the installation of roll bars. NOTE: For all non or partial X-Y-G cars these measurements must apply (These cars will be grand fathered into the new SMS rules) All NASCAR rule book specifications must be followed. No plating of the frame. A maximum of 38.875 inches from the center line of the front lower ball joints to the centerline of the roll cage front legs (referred to as bar #2a & #2b) will be permitted. A maximum of 82.625 inches from the centerline of the front lower ball joints to the centerline of the main roll bar (referred to as bar #1) will be permitted. The main roll bar must be mounted vertical (90 degrees) on the center section of the frame with no offset or setback. The #1 bar must be centered to the chassis. The roof bar (referred to as #3) must be within 4” of the side window and/or door openings on both sides, as well as the front windshield. All roll bars must follow the contour of the body. The #2A & #2B bars must be no more than two (2) inches behind the length of the A-pillar in the stock location. Positively no offset or setback roll cages permitted. All other roll cage guide lines see NASCAR rule book section G-18.

NOTICE – Competitors are solely and directly responsible for the safety of their race cars and racing equipment and are obligated to perform their duties (whether as a car owner driver or crew members) in a manner designed to minimize to the degree possible the risk of injury to themselves and others.

CONTINGENCIES- Contingency Sponsors are a valuable part of the SMS program. Contingency stickers must be displayed for either product or monetary considerations. Each division will be notified as to what stickers are required to be eligible for contingency rewards. The stickers must be displayed on both sides of the car. In particular, the decals must be mounted on the driver’s side of the car in such a manner that they are clearly visible in a promotional photograph.