



Fastest Piece of Real Estate in Tennessee  
Amended 12/27/18

## 2019 SUPER STOCK RULES

To help promote the Super Stock Series any out of town Super Stock Car traveling over 100 miles to participate in a race will receive **2 Free Pit Passes to each race** plus. The track will provide a 1 hour Free practice session on Race day for out of town cars to get dialed in.

**Super Stocks will race 1 time per month beginning in April**

All 50 lap races with no entry fee or gas requirement

**Minimum \$400 to Win each event with 8+ Cars**

### RULE BOOK DISCLAIMER

The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events, and by participating in these events, all participants are deemed to have complied with these rules. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT**

**SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS.** Any interpretation or deviation of these rules is left to the discretion of the **FROM PUBLICATIONS OF OR COMPLIANCE WITH THESE RULES AND OR REGULATIONS.** They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator, or official.

The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose any further restrictions that in his/her opinion does not alter the minimum acceptable requirements. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY** officials. Their decision is final.

**HRS reserves the right to add to and or adjust weight when deemed necessary for competition purposes. These rules are an attempt to combine different Engine options that are available to the racers. In the event the ownership feel the rules are obviously allowing one cars Engine combination an advantage changes in rules**

will be made. The goal is to have All Engine combinations winning races and running competitively. Our total goal is to provide close competitive side by side racing throughout the field for our fans. We will use whatever means we feel is necessary to make this a fair playing field even down to limiting left side weight, adding weight or using Restrictor plates.

**NOTICE:** All equipment is subject to the approval of HRS officials. No equipment will be considered approved by reason of having passed through the inspection process unobserved. Any equipment which does not conform to specifications or tolerances contained in this rulebook or in the appropriate Manuals, will not be eligible for approval. HRS reserves the right to add to and or adjust left side weight when deemed necessary for competition purposes.

**NOTE:** All cars must comply with the rules set forth by the Highland Rim Speedway rule book and reference manuals used in the inspection process. All cars and car parts are subject to HRS technical inspection processes. HRS is not required to follow any other sanctioning bodies or manufacturers guide lines in its inspection process.

### **Section 1: Safety Equipment: Rules apply at all times car is on track.**

- 1.0 Tech Director has the final say on severity of all penalties and infraction
- 1.1 Snell rated SA2000, SA2005, SA2010, or SA2015 helmet required. Roll bar padding required in driver compartment. **Recommended:** Fire Retardant padding. SFI-approved full fire suit required. Fire Retardant gloves, and neck brace (or head and neck restraint) required. **Recommended:** Fire Retardant head sock and underwear. **Recommended:** Fire retardant shoes. On board fire extinguishing systems are highly recommended. Driver's side window net required, minimum 16 inch x 20 inch ribbon or mesh style, and must be mounted to roll cage so latch is at top front of window. Minimum three inch (two inch with head restraint system) wide SFI-approved four point system required must be mounted securely to main roll cage. **Recommended:** Five point safety belt assembly highly recommended. **Recommended:** Safety belts no more than two years old. Kill switch required within easy reach of driver and must be clearly marked 'OFF and ON'
- 1.2 **Racing Seat.** Aluminum High Back seats only, must be bolted in with .0375 inch bolts. Full containment racing seats are highly recommended.
- 1.3 **Mirrors.** One (1) inside mirror only; must be mounted in traditional rearview mirror location (center of car) Wink mirrors and wide angle mirrors are permitted. Left and Right side mirrors are not permitted.

- 1.4 **FUEL CELLS** Fuel Cells are Mandatory maximum size 22 gallon. Must be mounted in a 20 gauge steel fuel cell container in a safe and approved manner meaning securely strapped by placing two (2) straps longwise and two (2) straps crosswise around steel container that fuel cell is in and bolting straps to trunk floor. Straps minimum 1/8" x 1" inch thickness in width. Must be mounted In the center. Must have a fuel cell guard bar made from 1 3/4" .083 min. and be 1" lower than the fuel cell container. All cells must have a rollover valve.
- 1.5 No fuel additives
- 1.6 **FUEL CELL CONTAINER / FRAME** Must be in Steel Fuel Cell container surrounded in a 1" x 1" .065 wall steel tubing frame. Fuel Cells must have a working roll over valve.
- 1.7 **FUEL CELL BAR** 1 3/4" .083 Fuel cell bar must be installed behind Fuel Cell and must be 1" lower than Fuel Cell container.
- 1.8 **FUEL Cell Height.** Bottom of Fuel cell 20 gage steel container must be a minimum of 8" off ground. Recommended fuel cell height 10".
- 1.9 AV GAS or **RACING Fuel** is allowed. NO oxygen enhancing agents. NO E-85 Fuel...
- 1.10 **FUEL LINE** Fuel line can run under car but must be higher than the lowest part of the frame and securely attached. Fuel line can be run through the car from fuel cell but must be in a 1 pc. steel pipe and the pipe must extend a minimum of 1" out from front and rear firewall.
- 1.11 **STEERING WHEEL QUICK RELEASE** After market quick release steering wheel hubs are legal. Must be pin less type.
- 1.12 **DRIVE SHAFT LOOPS:** required on all cars with drive shafts. 2 drive shaft safety loops made of flat steel (1/4 in. x 2 in Minimum Size) will be required. Drive shaft loops should be mounted 12" in from each end of the drive shaft. This is so that the drive shaft cannot fall onto the track in case of U-joint failure and it also may help keep the drive shaft from coming through the floor board in case of driveshaft failure. **ALL DRIVE SHAFTS MUST BE PAINTED WHITE.**

## **BODIES / INTERIORS etc..**

- 2.1 **IDENTIFICATION** All cars in this division must park in designated area and each car must have **SS** in 4" tall in BOLD White letters on top passenger side windshield area.
- 2.2 All stock equipment only for that year model car.

- 2.3 Rear wheel drive only. Minimum of 108" wheelbase. Max 1" difference from side to side.
- 2.4 Aftermarket ARBODIES Sportsman Muscle Car Bodies are allowed. NO Gen 6 Bodies. Must use 100 percent of the body with no altering of parts. ALL Muscle Car Bodies must be approved by tech and **Must fit HRS measurements and Body Templates**. All Muscle Cars bodies must be 100% manufacturer built "no homemade Muscle Car body panels". Muscle Car nose and rear bumper facials cannot be used on any vehicles except on approved Sportsman Muscle Car bodies.
- 2.5 May run 2 or 4 door car. No T-top bodies, station wagons.
- 2.6 All stock doors must be welded shut. Aftermarket replacement panels may be welded bolted or riveted using 3/16" rivets and backup washers.
- 2.7 Stock bumpers must remain in stock location. If running a rubber nose or tail. Standard single tube 1 3/4" x .083 max wall thickness bumper bar may be used to support it. No ramming heavy duty bumpers allowed.
- 2.8 Must remove all side and rear glass and interior. Must leave windshield or replace with 1/8" Lexan / Polycarbonate. No Plexiglas.
- 2.9 Wink mirrors and wide angle mirrors are legal. Left side mirrors are Legal but must not extend past the door line.
- 2.10 Must remove headlights, taillights & all side glass. Must remove all hubcaps.
- 2.11 Must remove interior. May remove dash. May run stock steering column or replace it with a 2 pc steel 3/4" DOM steel shaft using Universal joint near the middle of the shaft. At least 1 Universal joint MUST be used in the center of the steering shaft area. MUST BE APPROVED BY Competition Director.
- 2.12 Must remove hood latch and replace with three hood pins. Must remove deck lock and replace with two hood pins. Hoods and decks must be held shut with quick release hairpin or lynch pin type fasteners to secure panel.
- 2.13 Battery may be moved to driver's compartment. Must be securely mounted in place and in an approved sealed & vented container vented to the outside of the car with a hose. MUST BE APPROVED BY Competition Director.
- 2.14 May remove heater core and air conditioner core, but all holes in firewall must be covered with steel sheet metal minimum 24 gauge. Must use stock firewall and floor pan to behind the driver. Right side of floor pan may be raised.
- 2.15 Track approved Plastic Noses and Rear bumper covers are allowed.

2.16 Fiberglass Scooped or Flat Hoods plus Fiberglass deck lids allowed.

2.17 Stock appearing sides of car may be fabricate in steel or aluminum sheet metal.

2.18 May remove both front inner fenders and inner body support panels. May cut out front fenders not over three (3) inches around tires. May remove hood and deck lid hinges & liners. Must have a minimum of 3 hood pins in front of hood and 1 on each side of the rear of hood.

2.19 All Cars must be painted and lettered.

2.20 STOCK or modified Firewall and floor pans must be minimum 22 gauge sheet metal. **Must remain a full firewall either fabricate or stock.** You can box up behind the driver's seat using sheet metal from that bar back to package tray / rear window base. Cutting out floor pan and boxing for added muffler clearance is allowed. Cut only the amount absolutely needed for muffler clearance. The area around muffler must be boxed in using 22 gauge steel.

2.21 Side skirts allowed min. 3" ground height.

2.22 Maximum 6" spoiler height, no wider than the outside top edge of the quarter panels or a maximum of 60" wide

2.23 omitted

2.24 Bodies may be interchanged however the make of manufacturer must stay the same. GM with GM / Ford with Ford etc... Example Chevy Caprice can be exchange with Chevy Monte Carlo etc.

2.25 Bodies may be dropped on the chassis.

2.26 3" nose / valance height minimum

## **ROLL CAGES**

3.1 MUST have a minimum 4 point roll cage with minimum 3 door bars in driver's side 2 in passenger side with diagonal bar behind the driver. All roll cage tubing must be 1 3/4" OD .090 wall thickness. Gussets required in all left door bars

3.2 Must also have a cross bar behind the driver.

3.3 Top of roll cage may extend to rear of frame. All cars are allowed front and rear hoop bars and they are highly recommended.

3.4 Additional bars may be added in driver's area (leg, head and side bars but must be have roll bar padding on any bar around drivers body)

## **BATTERY**

4.1 Battery may be moved to driver's compartment behind driver's seat. Must be securely mounted in place and in an Approved sealed & vented container vented to the outside of the car with a hose. **MUST BE APPROVED BY Competition Director.**

4.2 Must have working emergency cut-off master switch within reach of driver & officials.

4.3 12 VOLT SYSTEM ONLY.

## **COMMUNICATIONS**

5.1 RADIOS are legal in this division.

## **COOLING SYSTEM**

6.1 NO anti-freeze allowed. \$100 fine if caught using anti-freeze. This will be checked.

6.2 Aftermarket Aluminum radiators are allowed

6.3 All cooling fans must have at least a 180 degree fan shroud covering the top side of the fan down half way of the fan on each side.

6.4 Electric fans permitted

## **SUSPENSION & WEIGHT**

7.1 Modifying of suspension mounting points is **NOT** allowed in front or rear with the exception the front shock mount points may be moved up to ½" for spring clearance. For pinion angle see rule 7.17.

7.2 Suspension parts must remain stock for that make and model of car.

7.3 May run racing springs. **Front Springs must be a minimum of 7.5" tall freestanding height.**

**7.3a No Internal or External Bump Stops.**

7.4 Minimum frame height six (6) inches with driver. NOTE: weight boxes welded to frame becomes part of the frame, and will be checked as frame height

7.5 Minimum of 3,400 lbs on all cars with 55.00% left side weight at all times.

Cut down cars will be allowed on a temporary basis at 3400 lbs and 55.0%

7.6 **LEAD:** All weight (lead) must be mounted with a minimum of two (2) ½ inch diameter bolts, large fender washers and a locking washer or nut. All weights are to be painted white with the car # painted on each piece. Any driver that loses any lead from his car will be fined \$250 payable prior to any further competition. This rule is in effect during race day or practice days. **No carbide Tungsten**

7.7 Race track reserves the right to change or adjust weight, and or add weight to any car at any time to even the competition.

7.8 Weight boxes allowed. All weight must be mounted either in an approved weight box or to frame or roll cage no lower than frame. ONLY weight in a box is allowed outside frame rail.

7.9 All upper and lower a-arm and a-perches must remain in the stock position. No exceptions

7.10 Moving of mounting holes for lower or upper A-arms NOT allowed

7.11 SWAY Bar 1 1/4" diameter Maximum OD. Must remain in the stock location with stock mounting hardware with brackets on frame remaining unaltered in other words (FACTORY STOCK). Sway bar can be adjustable on one side only.

7.12 No Wedge bolts... Adjustable buckets are allowed.

7.13 Tubular upper control arms allowed. No limit on upper control arm length differences. Must bolt to stock unaltered perch. Stock upper a-arms are allowed. Adjustable ball joints are allowed.

7.14 Steel upper A-Frame bushings & offset shafts on stock A-Arms are permitted. Ball joints Must be stock shaft length, adjustable ball joints are allowed.

7.15 Both lower control arms must remain stock and unaltered. Steel bushings allowed. Both must be the same. Screw in ball joint allowed, Adjustable ball joints allowed.

7.16 Lower trailing arms must be stock length both the same, in stock location & non adjustable.

7.17 Upper trailing arms must be stock length "both the same" Bolt holes may be altered for pinion angle but the length of the arms must stay stock and none adjustable.

7.18 Absolutely NO weight shifting devices of any type.

7.19 Tread Width 66" Center to center of tires at spindle height.

7.20 No air or adjustable shocks

7.21 Stock Mount Shocks ONLY. No rebuild-able / re-valve-able shocks including QA1 and Carrera. Shock mount steel bodied Bilstein, Pro, AFCO only are legal. No Schrader valves or plugs allowed in shocks. No external canisters allowed.

7.22 **Shock Claim rule: \$75.00 claim rule** on any shock.. Race winners shocks may be dyno tested at any time... Track may claimed and purchased shock after the race off any car regardless of finishing position.

7.23 No tampering with Stock Shocks. They must be STOCK. Adding Grease to a shock is NOT LEGAL. "MUST BE BOX STOCK"

7.24 ALL RACING and or PERFORMANCE PARTS that have not been addressed are not allowed. Tampering with any STOCK component is not allowed.

7.25 NO Mono balls allowed anywhere.

7.26 Lower front shock mounts may be moved for clearance

## **SPEC.- ENGINE**

8.1 Must be standard factory production with standard external measurements in all respects. No plastic or Aluminum blocks

8.2 May run solid engine mounts. #1 spark plug can't be any further back than the driver's side stock shock hole on a GM product.

8.3 Ford and Chevy may not exceed 362 cid. Chrysler may not exceed 364.

8.4 Max Overbore of .060 on Chevrolet, Ford and Chrysler

8.5 Flat Top symmetrical pistons only. Must be stock configuration with **two or four valve reliefs. .230 to top Ring land.** Ring land must be either 5/64" 5/64" 3/16" or may use 1/16" 1/16" 3/16. Stock Metric ring package allowed.

8.6 Piston may be flush with block (Zero Deck Height)

8.7 OEM or Steel connecting rods of stock configuration permitted. I-Beam type. No H-Beam or Aluminum Rods allowed. (Must be magnetic)

8.8 Rods must match engine size (example: 5.700 inches on 350 Chevrolet)

8.9 Seven quart oil pans allowed

8.10 No dry sump systems

8.11 Remote Oil filters are approved for competition

8.11a No oil coolers, accusumps or additional oil lines permitted other than line to oil pressure gauge, Must be metal, copper or braided lines. No plastic lines.

8.12 Standard production crankshaft only. Chevrolet engine stock, stroke 3.480, Ford 3.500, Chrysler 3.580.

8.13 No 180-degree, scalloped, knife-edge crankshafts.

8.14 Stroke must be stock stroke within .010 may not be increased or decreased.

8.15 Stock type or any S.F.I. approved balancers only. No titanium or aluminum.

8.16 Fifty-pound (50) minimum weight on all crankshafts, including timing chain gear.

8.17 The cylinder heads must be completely cast iron, the intake and exhaust ports must be in the original "as cast" configuration, Stock Heads Only.

8.18 Minimum 62 cc combustion chamber cylinder heads.

8.19 Mopar products: Maximum 1.624 inch exhaust maximum 1.920 inch intake valves

8.20 Ford Cleveland: maximum 1.655 inch exhaust, maximum 2.041 inch intake valves

8.21 Ford Windsor: maximum 1.546 inch exhaust, maximum 2.041 inch intake valves

8.22 Chevrolet small block: maximum 1.500 inch exhaust, maximum 1.940 inch intake valves

8.23 No Dart, angle plug 461, 461x, 462 or "bowtie" heads allowed

8.24 World products SR 043610 STOCK REPLACEMENT HEADS (1.5 / 1.940) allowed.

8.25 Vortec Heads allowed.

8.26 Altered heads will be confiscated

8.27 Stock Appearing, stainless steel replacement valves only. No under cut, or swirl polish allowed.

- 8.28 Stock diameter valve spring with steel retainers only. Chevrolet maximum 1.255". NO Beehive valve springs allowed.
- 8.29 3 angle valve jobs permitted, however no blending of angle, past the chamber into the bowl area.
- 8.30 3/8" Screw in or pinned rocker studs are allowed
- 8.31 No titanium parts. Locks must be magnetic steel
- 8.32 Hydraulic Camshaft, Maximum Valve lift may not exceed .450
- 8.33 Camshaft lift checked with dial indicator at push rod. Max lift .300.
- 8.34 Only hydraulic flat tappet cams and stock hydraulic magnetic lifters allowed. Max allowable valve lash is zero.
- 8.35 Stock appearing, stock size valve lifter only
- 8.36 Lifters must be of solid diameter for engine application.
- 8.37 No mushroom or roller type or anti pump up lifters allowed.
- 8.38 May run stock 2bbl or 4bbl automotive intake, No marine intakes. May run Edelbrock performer #2101, 2104, or 2116. Must have Edelbrock and part number embossed in part, on top in plain sight. All must be stock. No look-a-like intakes.
- 8.39 No porting, polishing, cutting or coating allowed period.
- 8.40 On all engines, only one standard flat gasket may be used between the head and the intake manifold. Maximum gasket thickness .177 inch.
- 8.41 Intake manifold 1/2" water cooling kit allowed.
- 8.42 Any attempt to pull outside air in not permitted.
- 8.43 1.5 ratio stamped steel rocker arms only. No roller rocker arms permitted. Cool nuts allowed.
- 8.44 No Stud girdles allowed.
- 8.45 Economy 1 5/8" headers with no steps, allowed with a 3" (3.0") collector into a single 3 1/2" (3.5") pipe that exits under car past driver.

- 8.46 Two into one pipe permitted for large muffler (ex. Brezenski / Howe) style only.
- 8.47 No X or H style exhaust pipes permitted
- 8.48 No alterations of any type, except external modifications for clearance purposes only.
- 8.49 No flexible pipes allowed anywhere or anytime.
- 8.50 We will permit a 5/16" header flange maximum with no spacer of any kind between the head or flange.
- 8.51 Exhaust pipes cannot extend past rocker panel.

### **CARBURETOR & FUEL SYSTEM GUIDELINES**

8.52 Must run Holley 500 CFM part # 4412 box stock carburetor only. May remove choke flap, may change power valve and jets. No HP Components except for base plate.

8.53 Must use a one-piece aluminum adapter / spacer plate with two holes not to exceed 1.688" and 1" maximum thickness in height. **No Swirl cut, Tornado or Tapered type holes in spacer.** One paper gasket above and below spacer not to exceed 0.060" thicknesses.

8.54 **Choke Horn** cannot be removed

8.55 **Accelerator pump:** Only Holley accelerator pump discharge nozzles are allowed. The retaining screw must not be drilled for a discharge passage.

8.56 **Power Valves and Floats:** May be changed

### **OPEN ENGINE**

9.1 Engine block must be cast or steel only. No aluminum engine blocks.

9.2 Cylinder heads must be cast or steel only. No aluminum cylinder heads.

9.3 Edelbrock performer #2101, 2104, or 2116 are the only approved intakes allowed. Must have Edelbrock and part number embossed in part, on top in plain sight. All must be stock. No look-a-like intakes.

### **OPEN ENGINE CARBURETOR**

9.4 Must run Holley 350 CFM part # 7448 box stock carburetor only. May remove choke flap, may change power valve and jets.

9.5 No HP carburetors. No HP metering blocks. No air leaks

9.6 Must use one piece aluminum adapter plate with two holes not exceed over 1.50 TOP and BOTTOM, No tapering and maximum 1" thickness. NO tapered, Swirled or Tornado style spacers. One paper gasket not to exceed 0.060 thicknesses. One paper gasket above and below spacer not to exceed .060 thick.

## **FUEL SYSTEMS**

9.7 Racing fuel cells are mandatory, bladder type cells are highly recommended.

9.8 Maximum 22-gallon cells with fuel cell roll over valves.

9.9 Loop bar mandatory behind fuel cell.

9.10 Fuel cells must be in trunk compartment, equal distance between frame rails and centerline of car.

9.11 Stock type mechanical fuel pump only, in stock location. No electric fuel pumps allowed.

9.12 No additional fuel reservoir, pressure equalizing systems, or fuel cooling devices allowed.

9.13 No E-85 Fuel

## **CARBURETOR AIR BREATHER / BOXES**

10.1 No air boxes, no air dams, ram air or duct systems allowed on carbureted engines. Only one air cleaner element allowed and all air must pass through the air filter. Paper or reusable filters OK with no alterations.

## **IGNITION**

11.1 Ignition, must be stock. HEI only. No MSD pickups or modules. No MSD distributors or boxes.

11.2 Rev Limiter chips and soft touch rev limiters are legal

11.3 The 5.3 Engine option will be required to run a Stock type GM Computer system. All 5.3 Engines will be fuel injected and required to use Track Computer during all official Race events.

## 12.0      **OPTIONAL ENGINE #1 for 2019 Super Stock**

### **(5.3 LM7-L59)**

#### **5.3 GM FUEL INJECTED CONCEPT ENGINE RULES (LM7 – L59).**

**\*\*\*The 5.3 engine package for SS must run a Track supplied Unaltered Carburetor Restrictor Plate**

**\*\*\*These restrictor plates MAY be changed up or down in size EVERY race if needed to even the competition.**

#### **The following rules apply to all 5.3 Fuel Injected engines for use in The Super Stock Division**

- 12.1    **5.3 Cast Iron Block Engines only. NO ALUMINUM BLOCKS**
- 12.2    Heads: Only 862 or 706 heads permitted. Must use stock type / OEM replacement Stock Size valves. Stock type valve job ONLY. NO unshrouding of the valves. No grinding allowed on the head. Runner cc's must be stock.
- 12.3    All internal rotating & external components must be stock 5.3 rotating assemblies (except the cam. Cam must be HRS Spec Cam) OEM type parts with stock weight and configuration or approved by Tech and HRS management.
- 12.4    Must use Track approved Injectors for the Super Stock Engine combination (to be determined)
- 12.5    We highly suggest Aluminum or Stainless Fuel Rails
- 12.6    Corvette or F- Body aluminum Oil pans are approved. Champ makes a cost effective steel 5.3 oil pan for circle track racing and it is approved for competition
- 12.7    Aftermarket remote oil filter housing are approved for competition.
- 12.8    High Volume aftermarket type Melling oil pumps are OK
- 12.9    We highly suggest using an oil pickup accessory bracket that allows use of both bolt holes to hold the oil pickup tube on with two bolts instead of one bolt.
- 12.10   Stock or Stock replacement coil packs **ONLY. NO MSD high voltage type coil packs.**

12.11 OEM Stock 5.3 Cranks only.. Stock Bore, Stroke and Weight.

12.11a No stroking or destroking

12.12 No Boring or Decking of the block.

12.13 **Pistons:** Stock or stock replacement **5.3 OEM Dish Pistons ONLY or Aftermarket replacement Dish Pistons**

12.14 **Piston Rings:** Only stock or stock replacement type piston rings. **NO FILE FIT RINGS**

12:15 ALL Internal components must be OEM STOCK or stock replacement weight and type components for a 5.3 engine.

12.16 HRS Spec Cam shaft must be ran.

12.17 Valve springs may be upgraded to an Aftermarket Bee Hive type spring. (contact HRS for approved springs)

12.18 Aftermarket hardened push rods may be used. Must be stock dimensions for a 5.3 OEM stock engine.

12.19 No metal fabricated, aftermarket or homemade intakes. Stock Plastic truck Intakes ONLY. No porting or polishing of intakes.

12.20 MUST run a maximum of 1- 4" air intake tube and filter. Air must be drawn in through the nose piece.

12.21 Computer must be mounted on Right side of car no more than 6" below top of door and the computer must be easily accessible and removable.

12.22 May use stock wiring harness for computer or a custom designed wiring harness is available from HRS.

12.23 Only stock type Track approved **GM CPU's (computers)**. You will be required to RACE with HRS owned Super Stock Race Tuned Computers ONLY for all racing events. Computers with the 411 for the last three digits are good computers to tune. No drive by wire computers

12.24 HRS will supply **All RACE Tuned Computers to race with for NO Charge...** ALL 5.3 LS type engines must use the track computers to race.

Race Tuned SS Computers will be installed before the race in the infield. You are required to have your own practice computer however you may pay to have it Race tuned as the Track CPU's are however it will be locked when tuned. Cost is \$200 to get your computer tuned. If you are caught with a tampered with CPU computer you will be suspended for 1 year from racing

12.25 Only HRS Approved GM/OEM Stock 78 mm throttle bodies. You must use a minimum of 3/4" and up to 1" thick throttle body spacer to allow for restrictor plate installation. Throttle rod assembly or throttle cable is optional.

12.26 No drive by wire Throttle bodies. Drive by Cable or use of throttle adapter plate to use a throttle rod is permitted but must be approved by (HRS).

12.27 Only 5.3 Stock rocker arms and lifters allowed. Stock OEM ratio. Economical aftermarket versions may be allowed but must be approved by tech before use in a race.

12.28 Economy 1 5/8" headers with no steps, allowed

12.29 May run aftermarket reduction pulleys. These are available from Jegs

12.31 Plastic lifter trays may be drilled for better oil flow back to the oil pan

12.32 Use of Holley aftermarket Water pump is recommended

12.33 Recommended to drill and tap water pump housing for air bleed for heads

12.34 Remote mounting of Coil packs is recommended to keep headers from affecting them.

12:35 No lightening of crank other than for balancing purposes. Must run minimum 50lb Crank

Anyone interested in running the Stock 5.3 engine may contact Jerry Criswell for a build sheet to help save time at 615-430-3135.

## **13.0 OPTIONAL ENGINE #2 for 2019 Super Stock**

**OPTION #602 CRATE ENGINE / with 650 4 bbl. gage legal carburetor.**

**The 602 engine combination may be required to run a carburetor restrictor plate.**

**Restrictor may be changed up or down to even competition**

13:01 GM Yellow Book Legal 602 Crate engine. This engine must meet all GM requirements for 602 crate engines per GM Yellow book specs. **Amendment to Yellow Book (Only + or - .001) One thousands will be allowed on cam installation degrees**

13:02 Must run Holley Carburetor model #4150, part number 805411 650 CFM 4 – barrel carburetor. This carburetor must remain stock dimensions in all areas. You may change jets, air bleed jets and power valves. You may remove choke and shaft. No other modifications on any kind will be considered legal. Carburetor Metering Blocks: Only Holley metering blocks.

13:03 You are REQUIRED to use a 1” thick Aluminum carburetor spacer plate with 1.688 straight through holes

## **Transmissions.**

14.1 Must be Stock automatic transmission with working Torque converter. Lock up convertors allowed.

14.2 **NO Powerglides**

14.3 200 Metric / 700R4 / 350 Turbo Transmissions are legal for Super Stock.

14.4 Transmission must have minimum 3 forward and 1 reverse gear in working order.

14.5 No direct drive transmissions or altered transmissions to create a direct drive.

14.6 **Must have a working minimum 10” diameter torque converter in transmissions**

14.7 **OEM Cast Iron 3 Speed Saginaw Transmission will be allowed with a 50 lb weight penalty. Shifting is NOT allowed on starts. Must have STEEL BLOW Proof Bellhousing. NO other materials allowed.**

**14.5 pound steel type flywheel less bolts and a minimum 10.5” Stock Steel type clutch.. Multi fingered clutches allowed.**

## **DRIVE LINE**

15.1 One-piece steel drive shafts only.

15.2 Drive shafts must be painted white. No aluminum or carbon fiber drive shafts allowed.

## **REAR AXLE & DIFFERENTIAL**

16.1 Must run rear end that came in that car. **No 9” Ford Rear Ends**

16.2 Rear end may be Posi-Traction or welded.

16.3 Aftermarket axles allowed.

## **BRAKES**

17.1 All brakes must work. M

17.2 Must have Stock Calipers / Drums

17.3 All 4 brakes must be hooked up and working together. No pinching of brake lines. No shut off valves

17.4 Aftermarket Dual master cylinder Brake pedals are legal for competition. No brake bias adjusters.

## **MUFFLERS MANDATORY**

18.1 No straight exhaust manifolds. Must have a exhaust pipe muffler system in place and the sound must be muffled to 99 dba or less @ 100 feet at speed.

18.2 **100 dba. at 100 feet will be enforced.** Your exhaust must be 99 dba or less to race.

18.3 Exhaust. All exhaust must exit behind the driver. Any exhaust exiting the sides of the car Must do so in a way to not cause an obvious cutting hazard.

18.4 May raise or remove section of the floor pan on right side of car for clearance to install large style mufflers (ex. Brezenski/Howe). Must box or replace floor pan with 22 gage steel sheet metal only.

## **TIRES & WHEELS**

19.1 **We will be racing on 2 different Pull Off Tires for use in this division... You can choose either type but all four tires must be the same manufacturer and type.**

**American Racer AR153            10" Wide Pull off Slicks \$175 per set of**

**Hoosier 45 Tires                    10" Wide Pull off Slicks \$200 per set of 4**

19.2 No aluminum or alloy wheels.

19.3 Maximum eight (8") inch wheel width.

19.4 May run after market steel racing wheels with any offset as long as you meet the tread width measurement of 66" center to center at spindle height.

19.5 1" OD Oversized steel lugs are recommended and REQUIRED ON ALL Right Front wheel studs. ALSO Required on ALL aftermarket racing wheels.

## **PROTESTS**

May protest within 5 positions in front of your finishing position. Must have run 3 races prior to protest. The protester has 10 minutes after the car in question has cleared the scale area to file a protest, along with cash money and completed protest form. In turn the protested car has 10 minutes to file a counter protest back on the original protester's car after being notified.

20.0 The Competition Director (Lead Tech) has the authority to deem a rules infraction as a minor infraction and allow up to two weeks to correct the infraction.

20.0a The Competition Director (Lead Tech) has the authority to allow cars from other tracks To visit on a temporary basis to see if their rules package will align competitively with our rules to help build the field of cars.

20.0b Cars from different track with different rules may be allowed to race in this division on a limited basis to test future rules packages and how they will play out in the actual racing environment. Drivers will be informed of these cars in person or in the drivers meeting. These cars will NOT be awarded points.

20.0c **Appeals:** Once a ruling has been made, you must inform the Competition Director (Lead Tech man of your wish to appeal his decision and ask for an appeal form. Fill out the appeal form and give the \$100 appeal fee to the Race Director within ten (10) minutes of the rule you are disputing to have your appeal heard.

20.1 Protest of Top End \$250.00 (Carburetor, Intake, Cylinder Head, Camshaft, Piston Head configuration.)

20.2 Protest of a Complete Engine Teardown is \$550.00 (Top End Plus, Bore, Stroke, Pistons, Rods, & Crankshaft.)

20.3 Protest of Transmission \$150.00 (Automatic Transmission Gears, Torque Converter)

20.4 Protest of Carburetor \$100.00

20.5 Protest for Traction Control \$100.00

20.6 Protest Rear End \$100.00

## **Section 21: Driver Changes / Points and Race Procedures**

21.0 We will honor our Champion and the **TOP FIVE** in Championship points at our Championship Presentation Night. Additional positions in the top ten in points may also be recognized by special request from the car owner and or driver to The Rim management team. The request must be presented in writing and must be received **FOUR (4) weeks** prior to the Championship night

Only our Weekly Racing Series Champions (Divisions with 20 plus race dates) are eligible for Championship point money if money is available.

21:1 **Driver Changes.** Pit Booth must be notified of driver changes *\*in writing* before races begin. It does not matter whom else you have told; you must notify the pit booth *\*in writing of a driver change before the feature event*. Failure to do so may result in points being credited to the wrong driver, and may not be changed.

21.2 **All Races Count.** All races will count towards point total. **No dropping of bad races.**

21.3 **Points.** You must take the green flag in the race to get points unless you have a problem in a preliminary event.

21.4 **Exception to 21.3 rule.** If a car is damaged in a qualifying dash or preliminary events and not able to compete in the feature event for that class they will receive last place points .

21.5 Any **discrepancy** in posted points must be presented in writing to scoring and HRS track owners within 7 days of the event in question.

21.6 Points follow the driver (not car owner)

## **Section 22: Transponders**

All competitors may be required to supply a crew member with radio to help with scoring and lineups. All competitors will be required to rent scoring transponders when used in events.

## Section 23: Test & Tune Sessions

Most Thursdays March through October we have weekly test and tune sessions from 3pm to 7pm. \$20.00 pit admission per person on Thursday practice days. Fuel and Tires are normally available on these days.

## Section 24: Track Rental

Track is available for hourly rental. Cost is \$100 per hour for one car with a 2 hour minimum.

Up to 10 cars can be in the practice. \$25.00 extra per car per hour. Only one car at a time can be on the track for a rented track. You are responsible for all track cleanup and car removal from a leak or wreck.

Mon-Wed 9am - 5pm Engines must be shut off by 4:59pm. \$150 Fine if engines are not shut off.

Thurs- 9am - 3pm

Fri - 9am - 2pm Fri nights (When available) 2pm - 9pm (Lights are an extra)

Sat Mornings 9am - 1pm When available

## Section 25: Qualifying Races (All qualifying races are 10 laps. 15 lap Qualifying race if you have 12 or more cars) **The first race of the year we will draw for starting positions in the qualifying race.**

After we have one feature race completed All Qualifying Races will start in REVERSE points order. Points leader starts at the rear with last racer in points starting first in single file starts for the entire qualifying event to keep car damage to a minimum. (Inexperienced drivers may be required to start behind the points leader).

25.1 Qualifying races will pay points to everyone and the top three will receive pay

1<sup>st</sup> \$100 plus 5 points and Winners trophy

2<sup>nd</sup> \$ 50 plus 4 points

3<sup>rd</sup> \$ 25 plus 3 points

4<sup>th</sup> 2 points

5<sup>th</sup> back receive 1 point

25.2 Depending on car count in the qualifying race up to the top 6 cars will be inverted for the feature starting positions. A roll of the dice on the front straight by the winner of the qualifying race will determine the inversion for the feature.

**25.2a CONE RULE:** All Feature events for the Super Stock Division will use the cone rule through the entire race.

**25.3 PREVIOUS RACE WINNER:** If the Previous Race winner finishes well enough in the qualifying race to be involved in the inversion roll of the dice they will start no better than the number of drivers that the inversion is for. For instance if a six is rolled on the dice the previous winner will start in the sixth position if they were in the top 6 finishers in the qualifying race. If the previous race winner did not finish the qualifying race within the inversion number rolled then they will start where they finished in the qualifying race.

The Dice will have a 2,3,4,5 and two 6's on it.

**25.4 NEW DRIVERS:** After the first 3 point races are ran any new driver starting up having competed in less than 3 qualifying races at HRS may be required to start behind the points leader in all qualifying races (This is mainly if they are inexperienced) until they have ran at least 3 qualifying races to establish themselves and to help minimize damage

**25.4a Any Experienced** driver starting to race after the season has begun will only be allowed to start up front in the qualifying races until they have won a qualifying race. After they have won a qualifying race they will be required to start behind the points leader until they have run 4 races and after that point they will be allowed to start in the qualifying races where they are positioned in points.

## 25.5 QUALIFYING RACE POINTS SYSTEM

1ST PLACE	5 POINTS
2ND	4 POINTS
3RD	3 POINTS
4TH	2 POINTS
5TH THRU FIELD	1 POINT

## 25.6 FEATURE POINTS SYSTEM

Points System will award 75 points to the official Winner of any feature event with a 5 point drop to second place. Second position is awarded 70 points with a 2 point drop to 3rd place. Third place will be awarded with 68 points with a 1 point drop for all positions after third place.

1st	75
2nd	70
3rd	68
4th	67
5th	66
6th	65
7th	64

8th	63
9th	62
10th	61
11th	60
12th	59..... Continues to drop by 1 point through the field

### 25.7 RACE for the Championship POINTS RESET July 31<sup>st</sup>.

The Points will reset after the last race in JULY.

Each Driver that competed through July will receive 750 points plus 10 points for each race night they attempted to race in that division.

### 25.8 The top 5 in Points at the end of July will receive Bonus Points

1st	10 points	Plus a nice Mid Season Points Leader Trophy
2nd	5 points	
3rd	4 points	
4th	3 points	
5th	2 points	

### 25.9 TAP Out Rule

When two drivers are involved in an on the track accident the rule is both cars go to the back of the pack however beginning in 2018 we will include a Tap Out Rule. If one of the drivers involved knows they were the one that caused the accident they can drive to the front stretch and stop at the start / finish line and TAP on The Roof of their car signaling the wreck was their fault by accident. If this happens the driver that tapped their roof (**Tapped out**) will go to the Rear of the field and the other driver will get their position back.

## After Race Tech Penalties

The following option simply gives a racer that is slightly off on weight a chance to NOT be DQ'd from the race for a minor infraction and to keep most of their points. If your car is wrong within the following guidelines you may accept the DQ with no fine **or pay the fine and keep your finishing position and reduction in points.**

WEIGHT	Infractions	OFFENCE	POINTS DEDUCTED	FINE
1-5	LBS LITE	ANY OFFENCE	-10 POINTS	-\$100
6-10	LBS LITE	ANY OFFENCE	-25 POINTS	-\$200
11	LBS & OVER LITE	ANY OFFENCE	DQ	DQ

<b>WEIGHT Infractions</b>	<b>OFFENCE</b>	<b>POINTS DEDUCTED</b>	<b>FINE</b>
<b>LEFT Side Weight Percentage %</b>			
Up to 0.2% over	ANY OFFENCE	-10 POINTS	-\$100
0.3 to 0.499%	ANY OFFENCE	-25 POINTS	-\$200
OVER 0.499%	ANY OFFENCE	DQ	DQ
<b>TRACK / TREAD WIDTH infractions</b>			
UP to 1/8" WIDE	ANY OFFENCE	-10 POINTS	-\$100
1/8" to 15/32" WIDE	ANY OFFENCE	-25 POINTS	-\$200
OVER 1/2" WIDE	ANY OFFENCE	DQ	DQ