



## 2024 HCMS Stock V8 Rules

ANYTHING NOT SPECIFIED IN THE RULES MUST BE STOCK FOR MAKE AND MODEL OF THE CAR.

- Total weight with driver 3200 lbs.
- Full Containment Seat and Hans together- 3150 lbs. Must Have Both To Get Weight Break.
- No 400-small blocks • No Big Blocks • May run headers. 1-<sup>5</sup>/<sub>8</sub> Max O.D. on headers.
- No try (y) or neck down headers allowed on the collector. Mufflers are not mandatory. No crossover headers.
- American made 2 door or 4 door sedans with a minimum wheelbase of 106 inches No fwd's, No trucks, no awd's, no convertibles, no vans, no station wagons, stock wheelbase for chassis being run. No cutting or shortening of wheelbase. Wheelbase must be within 1" of factory specifications.
- May run Metric Monte Carlo, Cutlass Supreme, Grand Prix, Thunderbird or Camaro.

### **ENGINE RULES:**

Engine must be strictly stock for that make and model. No Aftermarket blocks. No high output engines. 602 crate not allowed. No Fuel Injection Cars. 362 C.I. max

Engine allowed .060 for bore. GM motor with GM Chassis, Ford Motor with Ford Chassis.

• May run cast factory pistons. Hypereutectic stock replacement allowed. No Forged Pistons. Must run 4 valve relief pistons. May run Keith Black piston part #4749901. No fly cutting pistons, May run stock crankshaft and rods, no modification of any kind. Engine may be balanced, but no stroking or de-stroking of the engine.

- May run the Eagle assembly part # ESPB13402E-030 or B15402E030.

May use aftermarket 3/8" ARP rod bolts or equivalent.

- May run Scat Cast Crankshaft Part # 9-10442.
- May run Scat Stock Replacement I-Beam Connecting Rods Part # SCA-25700P.
- Piston may not come above to the top of the deck of the block.
  - 5.7" max on length of rod for chevrolet. No lightweight rods. No H-Beam rods. I-Beam Only. Press fit wrist pins only.
  - 3.48" Max stroke on chevrolet. Factory OEM Nodular Crankshaft allowed. No knife edging of the crankshaft. Crankshaft min weight must be 50 lbs minimum.
- #1 plug must be 1 inch minimum in front of the driver side lower ball joint.
- Stock oil pan, or may run aftermarket oil pan. Stock valve covers, or aftermarket covers with breathers.
- Stock type HEI distributor. May remove alternator. No msd boxes or any traction control devices.

## **HEADS:**

- 60cc Min Stock production cast iron OEM heads only. World Products, or Dart Heads not allowed. No porting and polishing of heads. No titanium valves. Stainless steel ok. 1.94 intake and 1.50 exhaust valves max allowed. May run OEM Stock Vortec Heads. Screw in studs allowed. Bowtie vortec or angle plug heads are not allowed.
- Factory Vortec Heads must use GM Cast #12558062 or #10239906. No angle milling.
- May run EngineQuest Head Chevy 96 & Up Vortex Cylinder Heads 906 & 062 Casting Part # EQ-CH350C No angle milling.
- May have 3 angle valve job. No modification to the combustion chamber.

Stock rocker arms allowed. 1.5 ratio max only. May run roller tips. No roller rockers. May run guide plates, No stud girdles. No shaft rockers. Polly locks ok.

- All external components are open, (water pump, pulleys, hoses, brackets, fan, radiator, etc.)

## **CAM AND LIFTERS:**

Stock style timing chain and gears. Single roll or double roller timing chain ok.

- Camshaft: Hydraulic only. 450 maximum lift cam, checked at the valve. Must use hydraulic lifters. No mushroom lifters. No centerline rules. No solid or roller cams. Stock replacement lifters. No push up lifters. Valve adjustment must be preloaded.
- Harmonic Balancer / must be SFI approved.

## CARBURETOR AND INTAKE

- 1 inch maximum 4 bbl to 2 bbl adapter allowed. May only run 2- .065 gaskets. One for the carburetor, and one for the spacer. No stacking of gaskets. One single 2 Barrel Holley 500 cfm 4412 carburetor only. Choke horn, passing gear may be removed.
- All carburetors must pass ALL HCMS TRACK CARBURETOR NO-GO-GAUGES. 5 Total Gauges. NO EXCUSES
- No 4 bbl carburetors. No 4 bbl Carburetor spacers.
- No electric fuel pumps allowed. Protected fuel lines and metal filters recommended.
- Gasoline only. No alcohol. Two return springs required on carburetors.
- Aftermarket gas pedal with toe hook is recommended. Pedal Cable not allowed.
- Air Filter: 4" max.
- Aluminum intakes must use part # **EDL-2101**. Must use aluminum intake part # **EDL-2116** or **EDL-2716** with Vortec heads. May run unaltered factory stock cast-iron intake. No porting or polishing of any kind allowed. May be milled to fit the gasket one side. No high rise intakes. Spacer is not allowed between the head and the intake. Marine intakes are not allowed.

**TRANSMISSION:**

May run 3 or 4 speed saginaw. No T-10 transmissions. May run automatic transmission. No Powerglides or Direct drive style transmission. Must have all working gears. Stock diameter full working torque converters. No light weight or direct drive (all gears must be operable)

**CLUTCH / FLYWHEEL:**

- Flywheel 14 lbs. Min. Stock type clutch & pressure plate must weigh 16 lbs. No Aluminum parts. Clutch and Flywheel must weigh a combined minimum of 30 lbs. No mini clutches. May run hydraulic throwout bearing.

**REAR END:**

- May run a 9" floater ford rear end. Metric cars must follow diagram for a 9 inch ford floater. No Gun drilled axles. Must have 4 wheel working brakes. No shut off valves. May run a proportional valve on the right front. May run aftermarket brake pedals, May run dual master cylinders. May have a brake bias adjuster, but there must be no way to adjust the brake bias from the driver's seat or in reach of the driver. May run booster on brakes.

**CHASSIS / SUSPENSION:**

- Stock suspension for make and model of car. (Ex. Monte Carlo must run Monte Carlo lower control arms, Camaro must run Camaro lower control arms)

Factory lower control arms only. May run screw in lower ball joints. No modifications to the lower ball joints mounting area. No 3pc spindles.

May run aftermarket upper control arms. May run extension ball joints 1" max. No swedged type upper control arms. Control arm bushings and sway bar bushings, may be aftermarket polyurethane. Upper control arms mounts must remain in stock location for make and model of car.

NO "four wheel" independent suspensions. Sway bar optional. If a sway bar is used it must be the same height on both sides. Cannot not tie down rf with sway bar.

- Racing springs allowed in front 5.5" dia. x 9.5" height max spring allowed. May run adjustable cups in front. Adjustable cups in the rear on metric cars are allowed. May run racing springs in the rear of a metric car must be 5" min dia. x 13" max height.

- Rear trailing arms must be stock, but must have stock type rubber bushings. Lower rear trailing arms must be stock length, Reinforcing the trailings arms is not allowed. May use adjustable upper trailing arms for pinion angle. No slotted holes in the mounts for trailing arms. Rear trailing arms must have a washer welded to the frame where the bolt goes through if slotted no excuses.

- Monte Carlo must run Monte Carlo style shocks in stock location, Camaro must run Camaro style shocks in stock location. No outboard shocks. No heim joint shocks. No coil springs attached to shock unless you are running Mcpherson Struts in stock location. \$150.00 Claimer Rule for Each Shock on the car after the race. Techman must approve you removing the shock from your car before the shock can be removed. Must Finish in the Top 3 to claim shocks of the car in front of you. "Example 3rd can claim 2nd place, 2nd place can claim 1st place only". May only buy 1 shock per night. Can only claim 2 shocks a year on one car.

- Air Shocks, Gas Pressurized, Gas Port, Schrader Valves, Hyper Screws, Bulb-Type, Threaded Body, Coil-Overs, Remote Reservoir, Bladder Type Valve shocks are not allowed. Oil Shocks only. On Metric Cars rear shocks at the bottom of the shock must be rubber only. No steel sleeves in the bushing.

- Leaf spring cars may run adjustable aluminum lowering blocks.

- Leaf spring cars may run adjustable shackles. May run racing leaf springs, but must be camaro/nova multi leaf springs. No Chrysler style springs. No Mono leafs. May run Landrum or Afco leaf springs only. No fast boy setups. No more than 6.5 arch in the leaf springs. No traction bars.

Steering quickeners are allowed.

Center link, Idler arm, tie rods, spindles, must remain stock for make and model of car. No offset centerlinks. May run short pitman arm.

May clip the rear of the car from the center of rear end back, for crash damage with 2 x 2 x 1/8 round or square tubing min.

## **BODY:**

- All factory doors must be welded shut, unless steel was replaced then pop riveted is allowed.
- All materials that would burn must be removed.
- All glass must be removed, including rear view mirrors.
- Aluminum Racing seat mandatory. Seat must be bolted secure to bars that are welded to the roll cage. No fiberglass seats.
- Must have 5-point harness belts that must be bolted to the roll cage.
- 6-point roll cage min. required and must be welded to frame rails and all connections must be fully welded. All cages must be a minimum outside diameter of 1- ½ inches and minimum .090 wall thickness. Roll bar installation and workmanship must be approved. No set back roll cages must consult with the tech official for approval.
- A minimum of 3 horizontal bars is required in the driver door and a minimum of 3 in the passenger door. Must run a 3/16" minimum

thickness plate on the driver's side door. May X Brace the Chassis Rails to tie the frame rails together for safety.

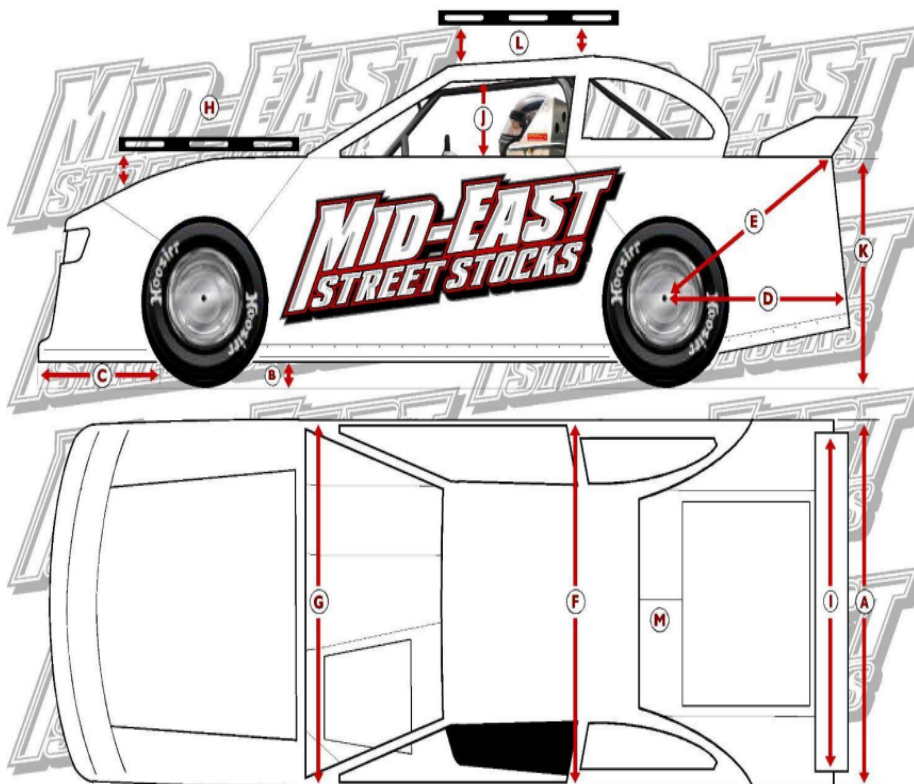
- May remove rear inner fenders. May remove the back seat floor pans up to the back of the driver's seat. (Example- from where the top of the seat is mounted to the cage back to the rear bumper.) Both front floor pans must remain in stock in the car back to the behind the top mount of the driver seat.
- All holes in the floorboard and firewalls must be covered with sheet metal, not aluminum. Stock unaltered front floor pans and firewalls must be retained.
- Bumper covers, and grill may be aftermarket, should be stock appearing. No sharp edges or tire cutters.
- May have a radiator protection bar, and cannot extend past the front bumper.
- Must have wrecker pick up points front and rear. (Chain, cable, etc)
- Must run fuel tank safety bar at rear, cannot extend past bumper.

### **Bodies:**

- May use aftermarket body panels. Steel or aluminum hoods, fenders, doors, quarter panels (fenders and quarter panels may be made of composite material), and trunk lids. No fiberglass side body panels anywhere. No station wagons style bodies, Rear of car must be completely closed in. No holes or flaps.
- 4" max height on spoilers and side spoiler pieces.



- Interior may be boxed in. Front and rear bumpers required, but must be stock appearing. No cow scoop on the hood. Rear Bumper cannot exceed past the quarter panel or must run a bumper cover. On boxed in interiors must have a 8"x 8" min. access panel on the passenger side decking for inspection.
- Must follow Mid-East Street Stock Body Rules for aftermarket bodies dimensions.
- [2024 Mid East Street Stocks Rule Book \(seureserver.net\)](https://seureserver.net)
- Factory quarters and roofs are allowed.



- A** Rear of car may not exceed 64" wide. Measured at top of deck.
- B** Body must be a minimum height of 5" off ground at all points of car.
- C** Maximum of 45" from edge of nose to front cross member. (Measured from where control arm bolt goes through cross member to furthest edge of nose.
- D** 48" Max straight from center of axle to edge of rear quarter panel.
- E** 51" Max from center of axle to top edge of quarter panel at spoiler.
- F** Max body width 68" measured behind drivers compartment.
- G** Max 66" decking width. Measured at top of decking at widest point.
- H** No more than 3" nose rack from back of hood to front of hood.
- I** 60" Max rear spoiler width.
- J** 13" Max window opening.
- K** 40" Max deck height. Measured from bottom of spoiler to the ground.
- L** Roof must have roll. With a level, can not touch on center and either end.
- M** The decking is permitted to be dropped to the middle of car a Max of 5" below top of doors.

**Tires:**

- Must run Hoosier H500 or Towel City Recaps.  
27.0 x 8 x 15 or 27.5 x 8 x 15 only. Tires must punch 55 or harder.
- Steel wheel allowed. 8 inches maximum. Beadlock wheels allowed. Large wheel studs and 1 inch lug nuts are mandatory. No aluminum wheels.
- Grooving and siping is allowed on H500 tires only. No alterations to the Towel City Recaps.
- TIRE TREATMENT IS NOT ALLOWED – Track reserves the right to take tire sample at track discretion.

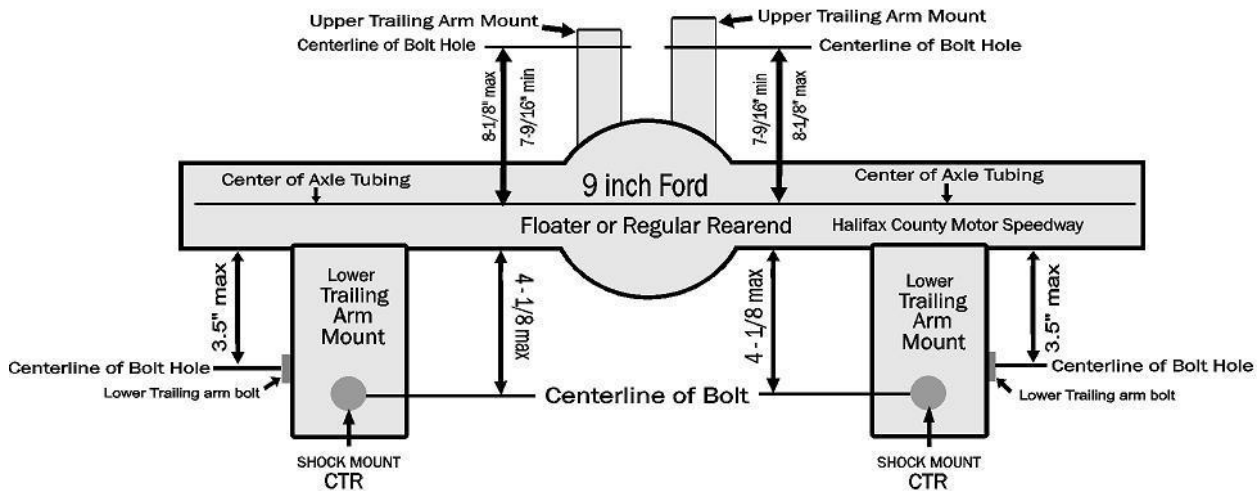
**SAFETY:**

- Fuel tank must be moved inside the trunk. Fuel cell mandatory. Must be in metal can tanks must be securely mounted away from the driver.
- . Fuel line run through the car must be in conduit or protective cover. braided line ok.
- Approved fire extinguisher, 2 lb. with gauge required and must be securely installed in reach of driver.
- Batteries must be in a containment box, securely attached to frame or roll cage, battery not allowed in driver compartment. Must run a quick disconnect for the battery in reach of the driver and track official in case of emergency.

- Approved racing helmets and complete fire suits must be worn any time a car is on track.
- Racing steering wheel with quick release mandatory.
- Clutch type fans must be removed and replaced with a straight blade fan for safety.
- Seat belts must have date and be no older than 5 years.
- Window net required and must be in use any time the car is on track..
- All weights must be painted white and have a car number on them.
- All drive shafts must be steel and be painted white.

### Halifax County Motor Speedway

Metric Cars Running 9 inch Ford Rear End must follow this drawing.  
 Shock can not mount to a bracket welded to the trailing arm mount.  
 Lower trailing arm bolts must be at the same height.  
 Rear ends must be 58", 60" or 62" wide.  
 +-1/16 tolerance max.



## **STOCK V8 CLASS:**

You must be at least 13 years of age to race. Any driver that wins 7 races in one season will have to take a year off or move up a class.

### **PROTEST FEES:**

Division Protested Car/ Protestor

\$100.00 / \$300.00

Visual Protest \$25.00

Visual Protest must be done within 15 mins after qualifying or heat races of your class.

After the race the 1st place car will come to the scale and stay until 2nd place and 3rd place car arrives. If 2nd or 3rd place wants to do a protest let the techman know before the 1st place car pulls on the scale. Only the top 3 cars can issue a protest. If a protested car leaves the tech area and goes back to their pits during a protest they will be Disqualified. For Example, protest would go as follows: If the protested car is found illegal, he loses his \$100.00 fee. (which the track remains), and the protester is refunded his \$300.00. If the protested car is found legal he is refunded his \$100.00 and the protester loses his \$300.00. The track will retain \$175.00 and the protested car will get \$175.00. Techman makes all decisions. Only one crew member in the tech area with their driver. If more than 1 crew member is in the tech area they will be Disqualified. Money must be given to the tech man within 5 minutes of agreement to protest.

- The protestor must tell the techman what you are protesting.
- Choose one option only.
- Cannot choose Engine and Car together.
- Engine- Carburetor to Oil Pan with all external parts connected to the engine.
- Car- Front Bumper to Rear Bumper. Once a car is found illegal the protest stops. If both cars are being protested we will pull part for part on each car.