

Crate Late Model 2020 Rules

MUST HAVE 8 CARS TO COMPETE IN OWN DIVISION ANYTHING LESS AND YOU WILL BE ADD TO THE LIMITED FIELD, COMPETING FOR LIMITED PAY.

ENGINES: All Engines and parts must be as from factory and all components thereof.

Any "unauthorized" changes will result in disqualification, no points, fines and other possible penalties including but not limited to being barred. This includes, but is not limited to, harmonic balancers, valve springs, push rods, rocker arms, and aftermarket valve covers etc.

NO upgrades are allowed to any engine that may produce power via "performance enhancing methods". This includes any "breather system" modification.

Engine Seals: New GM bolts from factory, SECA, FASTRAK, NeSmith/Rush, or NDRA seals ONLY!

ENGINE CLAIM RULE: GM 602 HP \$3500 Claim. GM 604 HP \$6000 Claim. Participant refusing to allow claim will be considered 'illegal within the bolts' and penalties according to such will apply. Tear Down Rules: All fees must be paid in full within 5 minutes of protested car crossing scales. Protestor must have money in hand for protest. ONCE PROTEST IS DECLARED, IT CANNOT BE WITHDRAWN!

COMPLETE TEAR DOWN: \$1000.00 Protest fee and \$400 Acceptance Fee. \$200 goes to track, \$200 to "Hartwell" selected technical inspector. \$1,000 to winner of protest.

In the case of a full engine protest...Track promoter will claim entire engine, and meet at "selected" tech inspector's business (usually the following Monday or Tuesday). Illegal parts may be confiscated and destroyed!

WEIGHT: GM 602 Car & Driver: 2275 lbs

GM 604 Car & Driver: 2425 lbs

Nesmith engines 2475 lbs

CARBURETORS: One 4 barrel Carburetor only. Must have 1 11/16th (standard) base plate maximum. No exceptions. Billet base plates may be used (.780 maximum) 604 Engine: 1 inch carburetor spacer maximum (0 TOLERANCE). 602 Engine: 2 Inch carburetor spacer maximum (0 TOLERANCE).

Please take time to check your plate with a gauge, not a tape measure. Spacer may not protrude into carb or intake at any point. One gasket per surface allowed (.070 maximum). No fuel injection, nitrous oxide or other type systems allowed. Aerosol carbs are not legal.

FUEL SYSTEMS: Mechanical fuel pumps only. NO electric fuel pump of any type allowed.

EVACUATION SYSTEMS: EVACUATION SYSTEMS ARE NOT ALLOWED! This means any type vacuum system. Includes vacuum from that of breather system and/or any other means of "pressure evacuation"

HEADERS: Tri Y headers are not legal. No merge collectors.

OIL PUMP: Wet sump only. No external oil pumps. Even if considered "wet". Remote oil filter and lines permitted. (One) remote oil filter. Oil cooler allowed (One)

DISTRIBUTOR: No magnetos. Electronic ignition allowed. MSD type box allowed. No crank triggers or devices that allow external adjustment of timing.

ELECTRONIC DEVICES: No electronic devices allowed on car thereby enhancing adjustment of that car. Traction control is NOT legal. No remote-control devices allowed on any car during any event. No electronic devices controlling shocks. Exotic Materials: ALL exotic materials are illegal including titanium and/or carbon fiber. Carbon fiber drive shafts legal for safety purposes

TRANSMISSION: No straight drives. No In and out boxes. Transmissions without "exotic materials" allowed. It must have working clutch with forward and reverse gear. Drive shafts should be painted white with car number. This is a safety issue! Drive shaft loop is highly recommended. This is a safety issue for all competitors. Automatic transmission allowed. Air shifters not allowed. Carbon fiber, aluminum or steel drive shafts permitted. Engine setback is 25 1/2 inches (measured from center of ball joint to front of engine plate).

REAR ENDS: Any Standard Quick-Change Rear End. No open type (sprint car) rear ends. 9" Ford rear end or similar type rear end not permitted. No exotic metal moving parts within rear end including wheel studs. Traction control not permitted.

BRAKES: All cars must have operational 4-wheel braking systems. Electric or manual proportioning valve permitted. Carbon fiber, titanium or other exotic materials are not legal. Brake Rotors must be magnetic.

WHEELS: Maximum 14 inch wheels permitted. Steel or aluminum wheels only. Bead locks are permitted. Carbon fiber or titanium wheels are not legal.

TIRES: American Racer spec 48 only. No grooving or siping.

Tires may be checked by officials at any time and may be subject to meet minimum durometer requirements. Tires may be confiscated by track at any time (for checking numbers, spec, altering, etc). Tires may be checked by independent lab for 'treating' and other alterations. Tires that do not conform to the manufacturer's submitted benchmark will be deemed illegal. Buffing is permitted.

Please note, there are NO appeals, NO 2nd, 3rd, 4th samples sent. THE LAB RESULTS ARE FINAL.

FIREWALL: Must be approved firewall. Edges of firewall should be completely 'sealed' with silicone or similar material in case of fire. Floor should be reinforced for safety. Sheet metal beside driver should be strongly reinforced or use heavier gauge in this location.

BODIES:

NO RAISED OR GURNEY LIPS OF ANY TYPE ALLOWED ON BODY.
DOORS AND QUARTERS MUST BE FLAT, OR MAY HAVE AN OUTWARD BODY ROLL. NO DOORS OR BODY PANELS ALLOWED TO BE ROLLED OR CURVED INWARD. NO TUNNELLING OF ANY TYPE ALLOWED UNDERNEATH BODY, ALONG FRAME, OR AROUND FUEL CELL AREA. A STONE SHIELD FOR REMOTE OIL FILTER OR TRANSMISSION IS ALLOWED, 24" X 24" MAXIMUM LOCATED NEAR REAR ENGINE PLATE.

2. SPOILER SIZE - MAXIMUM 12". SPOILERS MUST BE MADE OF A SOLID MATERIAL SUCH AS LEXAN, SHEET ALUMINUM, OR MATERIALS OF EQUAL STRENGTH. SPOILER & SPOILER SUPPORTS SHOULD BE MADE OF EQUAL MATERIAL ON ALL AREAS. NO OPEN SPOILER SUPPORTS. SPOILER HEIGHT, WIDTH, AND ANGLE MUST BE THE SAME AT ALL TIMES FOR THE ENTIRE AREA OF THE SPOILER. NO VARYING SPOILER HEIGHTS OR SPOILER ANGLES.

3. ROOF SUPPORTS OR "C" PILLARS ON BOTH SIDES MUST BE MADE OF EQUAL MATERIAL. WINDOW OPENINGS ARE ALLOWED BUT MUST BE THE SAME SIZE OPENING ON LEFT AND RIGHT SIDE. IF CLEAR LEXAN WINDOW IS USED IT MUST BE USED ON BOTH SIDES. BOTH SIDES HAVE TO BE EITHER OPEN, OR BOTH SIDES CLOSED.

ELEPHANT EARS: NO MORE THAN 5" TALL (measured with straight edge down to hood)

INTERIOR: Interior body work may be dropped a maximum of 4 inches below the door. Drop interior must be enclosed at firewall in. Flat interior must maintain a minimum of 11 inches from roll cage to allow for easy exit in case of emergency. Plastic glare shield permitted at front of cockpit as normal method (4" max height).

ROLL CAGE: No aluminum or titanium cages permitted. All tubing must be a minimum of 1 1/2 inches and a minimum of .083 wall thickness. Three bars in driver's side mandatory, two bars in right side mandatory. Must have a minimum of 1 inch bar, .083 wall thickness in halo section running either front to rear or diagonal across

DRIVERS COMPARTMENT/DRIVER SAFETY:

DRIVER SAFETY IS THE DRIVERS RESPONSIBILITY! THIS IS NOT THE AREA OF THE RACE CAR TO TRY AND SAVE MONEY, ANY MONEY SPENT ON DRIVER SAFETY WILL ALWAYS BE WELL WORTH IT!

1. ALL CARS MUST HAVE 3" SEAT BELTS WITH SHOULDER HARNESS AND MUST BE ATTACHED TO ROLL CAGE. 3YRS MAXIMUM AGE STRONGLY RECOMMENDED.

2. ALL CARS MUST BE EQUIPPED WITH AT LEAST A 2 POUND ABC FIRE EXTINGUISHER HARTWELL STRONGLY RECOMMENDS A 10 LB HALON SYSTEM.
3. HARTWELL STRONGLY URGES AND RECOMMENDS SOME TYPE OF HEAD AND NECK RESTRAINT SYSTEM, BUT IS NOT REQUIRED.
4. ALL DRIVERS MUST WEAR A COMPLETE FIRE SUIT.
5. GLOVES ARE NOT REQUIRED, BUT HIGHLY RECOMMENDED
6. CONTAINMENT SEATS ARE HIGHLY RECOMMENDED FOR YOUR OWN SAFETY. WE SHOULDN'T HAVE TO TELL YOU THIS.

FUEL CELL: Fuel cell must be mounted behind rear end housing between frame rails in what is known as "industry standard". It must be securely strapped with minimum of two steel straps. (Other state laws may apply...NJ, etc). Straps must be 2 inches wide x 1/8 inch thick. It must be mounted inside fuel cell steel box. No part of fuel cell may be below bottom of rear housing.

FUEL: Gasoline and Racing Gasoline ONLY! Fuels must have a Specific Gravity of .745 or less. Fuels with a Specific Gravity greater than .745 are illegal and driver will be disqualified

SHOCKS: Shocks at any position on the car including torque arm, lift bar must be constructed of magnetic steel or aluminum. Shocks of the "thru rod" style are NOT permitted. Remote reservoirs ARE permitted. Each shock may have a maximum of two external adjustment mechanisms. External reservoirs may only have one external adjustment. Adjuster mechanisms may not be hidden by the rod end. All adjusters must be located on the shock body, on the shock rod, or on the remote reservoir. Cockpit adjustable shocks are NOT permitted. No remote adjustments of shocks are permitted, including electronic adjustment whether hard wired or wireless. Shock/damper devices that are defined as inerter or damper(s) are NOT permitted anywhere on the car.

NO Air Shocks, Air Springs, Air Bump Stops, or Air Dumps. (These are disallowed)
Standard Late Model Suspensions Only. No Spring Loaded or Shock Type 4 Bar Rods.
Standard SOLID 4 bar rods ONLY. No torsion bar front or rear suspension. Sway bar OK
Standard one-piece bird cages. No split bird cages.
Standard late model suspension equals one (1) shock per wheel, except on the left rear. Left rear is allowed two shocks, one in front of the rear end, and one behind the rear end. Shocks must be mounted vertical to axle tube, not horizontal
No wings or tunnels of any kind allowed on/under the body or chassis of the car.

NO Air Shocks, Air Springs, Air Bump Stops, or Air Dumps.

ITEMS Not ALLOWED

1. No spring rods
2. No air spring shocks. Shocks must be able to fully compress by hand with spring removed
3. No lead bolted to rear-end housing
4. Aluminum wheel spacers only
5. No air bags
6. No air dump systems
7. No air bump stops

8. Any new components that have not been standard parts for past yrs. Must approved before they are legal to use.
9. Spool only in rear-end.