

ECM Speedway 2021 HOBBY Rules

March 19, 2021

RACECEIVER REQUIRED

ECM Speedway reserves the right to place drivers in the division most suited for them according to their performance level.

HOBBY

NO EXOTIC MATERIAL IN ANY OPTION

All Hobby Cars Must Have A Rear Tow Hook

HOBBY 2600 lbs.

602 CRATE ENGINE HOBBY 2600 lbs.

Limited to American made cars and trucks only. NO compact, convertibles, sports cars or station wagons.

BODY:

Car with down force nose piece 72" wide deck, 2700 lbs, 8" spoiler with Engine option 2. 2900 lbs with Engine option 3. Stock appearing body, stock full frame min 108" wheel base engine option 3, 2700 lbs.

OPTIONAL BODIES: Stock Appearing Aftermarket Steel or Aluminum bodies will be allowed. All aftermarket bodies must have plastic nose and tail pieces, Roofs must be Stock Appearing Fiberglass or Steel, NO Dirt Late Model style roofs. Hood may be fiberglass, aluminum or steel. If you use an aftermarket body install it right, NO flat-sided bodies. All bodies must be mounted Straight-up. All bodies stock or aftermarket are subject to approval by the technical inspector. Wheel Base must be stock based on the make and model of the car, with a 1" minimum tolerance.

NO front push bars will be allowed. If you feel you need some protection for the radiator you may build a guard using tubing, but all tubing must be kept completely behind front bumper in the grill area. If you have a body style with a plastic nose piece all guards must be behind nose piece.

Rear push bars permitted.

All cars with stock bodies must have OEM type front & rear bumpers NO homemade tube type bumpers. Cars with aftermarket bodies must have plastic nose piece.

NO glass or Lexan in windows (must be open).

Any plastic additions must conform to original body contour.

NO homemade nose pieces or body parts.

SPOILERS:

Spoilers may have a maximum size of 8" height, by 65" width. 72" WIDE SPOILER 8" TALL. THREE SPOILER BRACES ALLOWED MUST BE TRIANGULAR IN SHAPE MAXIMUM HEIGHT OF 8" AND

MAXIMUM LENGTH OF 28". Note: Gurney Flaps or Curls are allowed along the upper edge of the spoiler, but their length will be included in all measurements, Spoilers will be measured according to total length of and width of material, in any shape. 72" wide spoilers.

Three spoiler braces allowed, braces must be triangular in shape, maximum height of 8" inches and maximum length of 18" inches at base.

A metal firewall must encompass the driver's compartment – front, rear, sides and floorboard.

Boxed interiors permitted.

FRAME & RAILS:

Stock frame rails. Body does not have to match frame but must be OEM stock steel or one of the approved Five Star body kits. This will allow you to use a newer body style.

Tying frame rails together, reinforcing or X bracing permitted.

Weight jack area may be altered. Buckets, plates, etc.

Frame or frame rails may be replaced from snout, (must be a stock automotive snout) to the rear of car with a minimum of 1 3/4" material and must be .085-wall thickness.

HOWE TUBULER CAMARO REPLACEMENT CLIPS APPROVED
(Must be Tech personnel approved)

FRONT SUSPENSION & STEERING:

Tubular upper control arms and mounts permitted.

OEM Lower control arms for make & model required. After-market bushings permitted.

OEM or Safety spindles and hubs permitted.

5" minimum O.D. May run steel bodied shocks and coil over springs or coil eliminators on rear.

Weight jacks permitted.

OEM steering boxes only.

Inner and Outer tie rod ends may be rod ends and any tie rod sleeves permitted.

Rack & pinion steering allowed.

Steel Racing shocks permitted one shock per wheel, NO canister shocks. No bulb shocks, No adjustable shocks

REAR SUSPENSION

LEAF SPRING CARS:

Slide boxes on leaf spring cars permitted, may run steel coil over shock's and spring permitted with single leaf rear suspension.

Coil overs or coil springs allowed on three link cars, and coil eliminators, and Steel coil over shocks permitted

Solid Upper link, rubber bushing torque link, biscuit upperlift or spring-loaded type upper link permitted on leaf cars.

NO 5th coil, 90-10's, lift bar, pull bar or Reese bar, etc.

Steel Racing shocks permitted one shock per wheel, NO canister shocks, no double adjustable shocks permitted.

COIL SPRING CAR:

May use a three-point set up with a rubber mounted upper link bar, solid bar & rod ends. NO 90-10's, spring bar allowed. Biscuit bar allowed

Solid Panhard Bars with rod ends permitted.

Rear lower control arms may be aluminum or steel tubes with rod ends with a maximum length of 26" inches from center to center of the mounting holes.

Rod ends allowed on solid Panhard bar, solid upper link bar and rear lower control arms, this is the only place rod ends will be allowed on rear suspension.

NO 90-10's, spring bar or rubber bushing torque links. NO 5th coil, lift bar, pull bar or Reese bar, etc.

ROLL CAGE:

All cars must have a suitable steel roll cage protecting the driver's compartment.

Side roll bars are mandatory and must extend into door panels; a minimum of three bars must be used on left side and two on right side.

Bars must be at least 1-1/2" inch in diameter and a minimum of .095" inch wall thickness.

Roll cage must be welded to frame.

Seat must be fastened to roll bars or rail.

SAFETY:

All cars must have 3" inch seat belts with shoulder harness and must be attached to roll cage. And must be worn at ALL times while on Race Track.

We strongly recommend that all cars have an approved fire extinguisher system, securely mounted, within easy reach of the driver.

A 5 lb. Halon System is recommended.

All drivers must wear a complete fire suit.

NUMBER:

A. Number must be at least 18" inches high and on both sides and top of car.

FUEL CELL / FUEL:

An approved fuel cell mandatory (32-gallon maximum) must be securely mounted in the trunk area of the car, inside a .20-gauge metal box supported by a minimum of two 2" inch by 1/ 8" inch steel straps.

PUMP GAS OR E85 FLEX FUEL PLUS OR MINUS 2. NO alcohol – NO nitrous oxide, nitro methane or other nitrate additives.

NO propylene oxide.

Gas must not check above + 2 or – 2.

REAR END:

Locked rear ends required, welded or spool or mini spool permitted.

9-inch Ford floaters allowed.

NO ratchets, True-Trac or any other type locker unit allowed.

Quick changes permitted. Steel or Aluminum Axle Tubes Permitted. No open differentials. All brackets must be clamped, welded or bolted. No floating suspension parts or brakes.

WHEELS:

Steel wheels 14" inch maximum width. May run aluminum wheels, with 50lb weight penalty.

Wide 5 wheels permitted.

Bead locks permitted.

TIRES:

A. 21's, 1350's, 55's, Hoosier 1600's, American Racer 48's or 56's or harder

B Tires must have all numbers and name on the tire. NO grinding off, of numbers or names, any tire that has been altered will be illegal.

C. NO tire softener, tires will be randomly checked before and/or after race and must punch a minimum of 48 (cold or hot) on track durometer.

BRAKES:

Four-wheel disc brakes permitted.

Dual master cylinders permitted.

Brake adjusters permitted.

EXHAUST / MUFFLERS:

Collector type headers only.

NO deliberate air leaks, vents, holes, etc.

TRANSMISSION:

OEM standard production 3 or 4 speed transmission. BURT, FALCON OR BRINN TRANSMISSION 50 LB WEIGHT PENALTY. MAY RUN BURT OR BRINN BELLHOUSING, WITH REVERSE MOUNTED STARTER ONLY, ON BELLHOUSING.

Must have at least one forward and one reverse gear in working order.

NO special production transmissions.

Automatic transmission permitted, add 50 lbs for nonfunctioning stock torque converter

STARTER:

A. All cars must have starter in working order.

HOBBY ENGINE RULE

ENGINE SETBACK:

Front most forward spark plug must be in line with or in front of top ball joint, (1' TOLERANCE).

Must have original engine cross member in original position, Drive train must be in center-line of car.

ENGINE: Option 2

All engines have a maximum bore size and must be standard stroke for engine being used.

Small blocks only, NO big blocks.

BLOCK:

OEM Spec Cast iron V-8 block only.

Maximum cylinder bore size, Chevrolet 4.060, Ford 4.060, Chrysler 4.060

Deburring block and plugging deck to strengthen block permitted.

Plug or vent and screen oil drain holes in lifter valley permitted.

May surface deck of block.

Lifter bore must be OEM diameter for engine, Chevrolet .840, Ford .875, Chrysler .901.

CRANK:

Standard production OEM or Stock Replacement cast crank only.

OEM standard weight steel cranks allowed.

EXAMPLE:

327cid Chev – 3.250 / 350cid Chev – 3.480 302cid Ford – 3.000 / 351cid Ford – 3.500 360cid Chrysler – 3.580

NO stroking or de-stroking, NO lightening or knife-edging crank.

NO turning down counter weights or drilling crank pins.

Eagle ESP Cast Crank Part # 103503480 will be allowed. The thru holes will not be considered "drilling the crank pins" due to the cranks are manufactured with the thru holes.

May balance engine.

RODS:

Stock length OEM or Stock Replacement rods, Press pins only.

All rods must have rod bolts with nuts.

NO 6" rods allowed.

High performance rod bolts and nuts permitted.

PISTONS:

Flat top only

NO dome pistons.

CAM:

Any Hydraulic Cam Permitted.

NO roller or mushroom or radius cams.

LIFTERS:

Hydraulic lifters only.

Anti-pump-up lifters permitted.

NO cheater hydraulics or modified lifters.

NO roller or mushroom or radius lifters.

NO lifter-retaining tray.

Lifter must be OEM diameter for engine, Chevrolet .840, Ford .875, Chrysler .901.

TIMING CHAIN:

Double roller sprockets & chain.

NO gear or belt drives.

HEADS:

OEM standard production cast iron heads only, must have casting numbers and numbers must be readable at the time of a cylinder head check.

OPEN CHAMBER STYLE HEADS ONLY. 70 cc limit on Chevy heads, Ford Head 64 cc minimum.

Chevrolet straight plug heads only.

World Products (Stock Replacement) Chevrolet heads casting # I-052 permitted.

Ford and Chrysler angle plug standard production cast iron heads permitted.

NO Bow Tie, W2 or Ford SVO heads.

Steel valves only, NO titanium,

Maximum size for Chevrolet, Int. 1.940, Exh. 1.500

Maximum size for Ford and Chrysler, (Consult Tech Inspector)

Valve stem diameter 11/32 minimum for all engines.

Any type guides permitted.

Stock size valve springs only

Steel retainers required.

Flat guide plates permitted, No stud girdles allowed.

Screw in studs permitted 3/8 or 7/16 Maximum diameter. May run flat guide plates.

Stamped steel rocker arms or Roller Rocker Arms.

Roller tip or roller rocker arms Permitted.

NO after-market shaft or pedestal mount rocker arms allowed on Chevrolet.

If standard production head came with shaft or pedestal mount rockers, they will be allowed.

Racing valve job permitted Machine cuts only.

NO porting or polishing, all heads must remain AS-CAST.

NO port matching or deburring intake or exhaust runners.

NO blending valve job to casting.

HARMONIC BALANCER:

Standard type steel balancer only.

fluid damper permitted.

OIL SYSTEM:

Wet sump oil pump in pan system only.

NO dry sump system.

Racing oil pan and \ or windage tray permitted.

Remote oil filter and oil cooler permitted.

WATER PUMP:

Cast or aluminum permitted.

NO electric water pump.

FUEL PUMP:

Block mounted mechanical pump only.

NO electric pump.

FLYWHEEL:

Steel flywheel only.

CLUTCH:

STANDARD STOCK TYPE DISC AND PRESSURE PLATE. STEEL FLYWHEEL WITH TRIPLE DISC CLUTCH

NO special production clutches or clutch parts.

Must use diaphragm type pressure plate, with solid face.

NO 3-finger pressure plates.

10" inch minimum diameter on clutch.

Full circle fiber type disc with spring loaded hub only, NO puck type fiber disc or solid hubs allowed.

Pressure plate and disc must be steel.

DISTRIBUTOR:

OEM factory HEI or OEM factory single point distributor only.

After-market coil and module will be allowed as long they are stock appearing and mount in stock location with NO modifications.

Advance kits permitted.

NO ignition booster or amplifier to ignition.

NO dry cell battery pack to ignition.

Alternator, if used must be wired to battery, NO loop system wiring to distributor.

INTAKE:

Any single aluminum or cast iron four-barrel intake permitted. No polishing MUST be cast.

CARBURETOR:

Any Four Barrel Carburetor Permitted.

K & N flow control air cleaner permitted.

HOBBY OPTIONAL 602 CRATE ENGINE: 2600 lbs.

GM P/N # 88958602 – 350 CID / 350 HP

GM Engines may be purchased at any GM dealer.

The sealed engines must remain intact and not be tampered with; any seals that have been removed or tampered with will make the engine illegal and not eligible for competition at ECM Speedway.

NO changes are allowed to the engine (intake manifold, heads, valve covers, oil pan, harmonic balancer or any other part /or parts on/or in the engine.

NO vacuum pumps.

All 602 crate engines must remain stock as they came sealed from the factory. 602 Crate Engines must not be altered, modified or changed from factory specs.

WEIGHT:

HOBBY 2600 lbs. minimum with driver.

602 Crate Engine B HOBBY 2600 lbs. minimum with driver.

All cars must have specified weight posted on top of roof.

All weight must be bolted on.

Track reserves the right to adjust weights in interest of competition should it deem necessary.

Engine Option 3

362 Cubic Inch Max. Small blocks only.

4.060 Max Bore, OEM based steel blocks

OEM design and specs only. Wet sump only

Crank Shaft

Stock OEM stroke and spec crankshaft only for engine

Cast or 4 lb steel crankshaft. NO knife edging

No stoked or destoked crankshaft, OEM ?

Maybe turned max .060

Rods

Any length or steel rods only, OEM size bores

No exotic material, maybe press or floated pins.

Pistons

Dished or Flat top pistons with OEM size steel only, No exotic material, 3 ring design

CamShaft

Timing chain only. No gear or belt drive

Any flat tappet camshaft

OEM size lifters. No mushroom or roller lifters

Sheet metal lifter tray allowed. NO kind of Rev Kit or spring loaded lifters. Steel push rods only.

Heads

No exotic material allowed.

Any 23* cast iron head, No porting or polishing. Must remain as cast in breathing area. No aluminum heads, No CC limits, may be milled or angle milled

Max valve size 2.055 intake, 1.625 exhaust.

Steel Valves only, OEM size valve stems only.

Multi angle valve jobs allowed must be machine cuts only.

3/8 or 7/16 Screw in studs and guide plates allowed.

Any steel valve spring and retainer allowed.

Poly locks and stud girdles allowed.

Steel or aluminum stud mount roller rockers allowed.

Shaft or pedestal mount rockers allowed

Intake

Any cast iron or aluminum 2 or 4 barrel intake allowed

No porting or polishing of breathing areas.

Must be as cast iron from factory. No sheet metal intakes, no sheet aluminum intakes, No fabricated intake

Carburetor

Single line or dual line, single pump or dual pump

Mechanical or vacuum secondary, conventional Holley style carburetor, Max 750 CFM.

Straight or down leg boosters, no super bowl type

No individual cylinder tuning allowed

Conventional style floats along with needles and seats

Max 2" spacer, may not extend into intake. 2 standard thickness gaskets max .070 thick allowed.

Oil System

Wet sump oil pump in pan only.

No dry sump system

Steel racing oil pan only

Windage tray permitted.

Remote oil filter and oil cooler permitted.

Water Pump

Cast or Aluminum permitted

No electric fans or water pumps

Fuel Pump

Stock style Block mounted. Mechanical fuel pump only

NO electric fuel pumps.

Track reserves the right to delete, change, or amend rules in the interest of competition.