

# BETTAREL

## 2022 HOBBY RULES



**If it doesn't say you can, you can't** Any car or equipment that the officials, board members and directors considered exotic or not in the best interest of the track will be considered illegal for competition. In the interest of fairness, the rules be adjusted to create a balance of competition. If needed, for competition purposes the track can make a decision to add or takeoff weight to any care prior to entering a competition.

1. **SAFETY** - It is recommended that each car have, within driver's reach, built-in fire extinguishing equipment containing Halon 1211 or equivalent. Dry powder is not permitted. Any car that is not equipped with a built-in fire extinguisher must have an adequate fire extinguisher securely mounted within reach of the driver. The fire extinguisher may be secured to the roll bars or mounted on the left side door area. All teams should have in their garage or pit area as part of their equipment, a fully charged min 10-pound fire extinguisher.

a. **ELECTRICAL CUT-OFF SWITCH:** All cars must be equipped with a master cut-off switch. The cut-off switch must completely disconnect electrical power and must be clearly marked with an "ON-OFF" decal.

b. **SEAT BELTS AND SHOULDER HARNESS**

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A quick release lap belt of no less than 3" wide unless using head restraint 2" wide is required. Where the belt passes through the seat edges, it must have a grommet installed, be rolled and/or padded to prevent cutting.

Seat belts must be dated by the manufacturer and must not be used beyond five years after the manufacture date. Recommend replacement after two years.

It is recommended that HANS specific seat belts be used with HANS device. If not using HANS, a neck brace is highly recommended

c. WINDOW NET A nylon window screen is mandatory. It must be fastened to the roll cage top bar and highest driver's door bar on the cage. Window net must be rib type made from 1" wide nylon material with a maximum of 1 3/4" square between the ribs. All window net mounts must be welded to the roll cage and release from the top.

d. DRIVING SUITS must be worn at all times when the car is on the racing surface. Must be fire retardant and clean and without holes. Racing or Leather nonflammable shoes and gloves required

e. Mandatory commercially produced fuel cell (no homemade) -Driver's door must be welded/riveted or chained shut –

f. No reinforced bumpers (front or rear) meaning either stock oem or max 1 3/4 .095 round tubing.

g. A maximum of two mounts from the frame rails with two side and top supports.

h. Side and back glass and body molding must be removed - / Lexan windshield mandatory.

i. Helmet to be a minimum snell 2005 or SA-2005 -Racing seats are required

j. Batteries must be securely mounted. All cars must have a firewall between the fuel cell and drivers compartment of at least 22-gauge steel.

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**k. Two-way radio optional, A Drivers raceciever to monitor tower communications is required.**

## 1, COMPETING MODELS

Any American made rear wheel drive car 1955 through 1995. No convertibles, no two seaters, and no trucks. Ford to Ford, GM to GM, Mopar to Mopar etc. Minimum wheelbase 101". Gen 3 Camaros and 2005+ Mustangs Must be 54% Left No mono balls or Heim joints in ANY cars BODY: Aftermarket noses ok, must match model. Hoods, fenders, roof, q-panels MUST be OEM stock. Doors maybe stock or 20-gauge steel. Hood, doors, and trunk lid may be gutted. If you have sheet metal quarter panels MUST be stock

configuration and 20-gauge steel. Bumpers MUST be in stock configuration or covered. Stock firewall MUST be in place. All stock floorboards MUST be in place. **SPOILER MAX LENGTH 60 INCH BY 6 INCH TALL 60"X6"** Battery MUST be in a covered box with a master switch located behind driver. MUST have full **LEXAN WINDSHIELD**. Wing windows no longer than ten inches (10"). No air cleaner hole in hood. Bodies must remain stock appearing and in full spirit of class

A Roof rails will be allowed one per side off center of roof, must be located from top edge of windshield and stop at the top edge of rear window. ¾ inch tall max.

B Trunk and fuel cell areas must be enclosed and sealed.

C Rear view mirror allowed but must not extend past the outside of body line

## 2, ROLL CAGE:

Fully conforming roll cages are required. Front hoops allowed. All bars are subject to the Technical Director's approval. Roll bars are required and must be of at least one and one-three quarters (1 3/4") by ninety-five hundredths (.095) wall thickness on tubing. Roll bars MUST be welded or securely fastened inside the car to the floor pan and braced on the rear main bar. All roll bars must have three (3) sissy bars on the driver's side connected with three (3) vertical bars in the center, with a minimum of two (2) sissy bars on the passenger side. All cars MUST have a rear safety bar attached to the main cage to protect gas tank.

## 3, ENGINE and HEADS

Approved stock production only. Bigger valves ok and all seat work must be on center line. Screw in studs ok. Rocker ratio MUST be stock per engine. Roller Rockers allowed. NO porting, polishing, deburring, port matching. NO angle milling. NO stud girdle. oil deflectors. NO titanium retainers, "steel only". NO titanium valves. NO epoxy. NO aluminum. NO welding. NO "N" heads. NO bowtie vortex. NO vortex. NO angle plugs. NO W2. NO world SR. NO Ford Motorsports. NO after-market. This section excludes the sealed 602 crate engine.

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4, CAMSHAFT: .530 lift max; Hydraulic cam. Hydraulic lifters MUST de-pump FULL stroke of lifter. NO hydraulic rollers. NO solid lifter cams. NO stacking of hydraulic lifters. NO gear drives.

## 5, BLOCKS:

Stock OEM production only with part number.

## 6, INTAKE MANIFOLD:

Stock OEM cast iron Q-Jet or low rise two barrel. Two (2) big holes and two (2) small holes, low rise. Ford equivalent or subject to penalty. Dodge equivalent or subject to penalty. No marine type, must have part number. ALUMINUM INTAKE ALLOWED MUST BE EDELBROCK PERFORMER ONLY, 25# POUND PENALTY

## 7, EXHAUST MANIFOLD:

NO porting or port matching. NO lighting. NO exit greater than two and a half inches (2 ½) MUST have muffler and pass at 95db. Headers allowed NO step headers.

## 8, PISTONS AND CRANK

MUST **BE** of stock weight and dimension. Flat tops only. Two (2) value relief piston ok. Stroke MUST match block. NO stroked or de-stroked.

A, No dry sumps, No external oil pumps.

## 9, RADIATOR:

Steel or aluminum ok. NO anti-freeze. MUST have a catch can.

## 10, CARBURETOR:

Holley 4412 five hundred (500) cfm 2 barrel with full choke horn. The part number MUST be on choke horn and meter plate. NO racing carburetors. NO XPs

A, One inch (1") **MAX NO TAPERED SPACER.**

B, 1 AIR FILTER, 14-inch round by 3 inches tall K&N Allowed.

## 11, CLUTCH

MUST be stock cast iron flywheel; .870 thick or more. One (1) clutch disk. All steel pressure plate, ten half inch (10 1/2") minimum. MUST have a one-inch (1") access hole in bellhousing for visual on clutch and a one inch (1") hole in bell plate. NO racing clutches. MUST have scatter shield or belting. Clutch pedal can be aftermarket.

12, TRANSMISSION:

MUST have all forward gears and reverse. Automatic transmission MUST have torque convertors, must have OEM part number.

13, REAREND:

. GM, FORD 9INCH and floaters permitted. Spool or welded only. NO limited slips. NO Detroit lockers. Spring shackles ok. Floater with drum brakes ok. Floaters with disc brake and aluminum drums must add 25 pounds. Must have stock OEM calipers. GM REARENDS MUST HAVE AFTERMARKET AXLES AND 5/8 STUDS.

A Driveline must be steel and painted white, MUST have 1 loop behind transmission

B, BRAKES Must Have ALL 4 WORKING, Aftermarket brake pedal ok, Aftermarket Master Cylinder ok Remote brake adjuster must be out of reach of driver, belted or unbelted, OEM CALIPERS FOR MAKE ONLY.

14, WEIGHT

360 CUBIC INCH OR LESS.

3200 MIN.

LEFT SIDE 55.0%      GEN 3 -54% MAX

MAX REAR 48%

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WEIGHT

361-400 CUBIC INCH

3400 MIN.

LEFT SIDE 55.0% GEN 3 -54.0% MAX

MAX REAR 48.0%

GM Sealed 602 Crate with 6000 chip: MSD #8727CT soft touch HEI rev limiter on right side of dash out of reach of driver.

3225 MIN.

LEFT SIDE 55.0% GEN 3- 54.0% MAX

MAX REAR 48.0%

15, SHOCKS:

Steel Body Non-Adjustable-Non Rebuildable- Mounted in Stock Location using Stock Mounting Hardware.

16, RIDE HEIGHT:

Five-inch (5") ride height from lowest part of car.

17, SPINDLE:

MUST be stock OEM

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18, CAMBER

Two inches (2") right and one inch (1") left, max measured with square at top of wheel or with approved gauge

## 19, WEIGHT JACKS:

NO weight jacks. Pocket spring adjusters ok.

## 20. TRAILING ARM:

MUST be stock OEM dimension. MUST be in stock location. NO alteration allowed.

## 21, SWAY BAR:

One and one quarter inch (1 1/4") max in stock OEM saddles. All thread ok for adjustment.

## 22, IGNITION:

Option 1: Firing order MUST be stock per engine. NO crank triggers. NO electronic tuning. Option 2: 4-7 swap okay. Option 3: 602 - MSD#8727CT soft touch rev limiter. **NO 6AEL OR EQUIVILANT BOX.**

## 23, FUEL CELL:

MUST be covered in twenty (20) gauge steel in trunk location. Fuel filter MUST be metal. Fuel line MUST be in conduit if located through car. Fuel cell no lower than ten inches (10") and no closer than twelve inches (12") from back bumper.

## 24, FUEL PUMP

: Mechanical only. NO electric. Oberg fuel shut off highly recommended.

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## 25, WHEELS:

15 x 7 or 15 x 8 steel racing wheel. 5/8-wheel stud mandatory.

## 26, TIRES:

Hoosier 970. NO softening inside or outside. NO poking. NO tire shine. The tire you qualify with you MUST start the main event with. Qualifying tires will be stamped at the scales prior to qualifying, number of tires bought will be regulated at 1<sup>st</sup> race of season.

## 27, SAFETY:

MUST have race padding on all bars that your hands and head can reach. MUST have window net. MUST have three inch (3") wide shoulder belt. ALL belts must be five (5) years or newer. MUST have two inch (2") sub belt. MUST have fire extinguisher. MUST have master electrical shut off behind driver's seat. Helmet MUST be SNELL 2005 or newer, NO motorcycle helmets. Head and neck restraint recommended. Driver's suit must be clean with no visible holes. Racing gloves must be worn at all times. Holes around shifter must be covered. Seats must be aluminum. 2" belt okay with HANS or Youth.

## 28, TRANSPONDER:

Location: Right rear frame rail; fifteen inches (15") behind center of rear-end.

## 29, CAR NUMBERS:

Doors: Twenty-four-inch (24") MINIMUM Roof: Thirty-inch (30") MINIMUM. **ENGINE AND CAR WEIGHT MUST BE PAINTED OR LETTERED ON LEFT FRONT FENDER.**

These rules can be adjusted anytime to even competition. IF IT DOES NOT SAY YOU CAN, YOU CANNOT. PLEASE BUILD TO THE RULES NOT AROUND THEM. If it does not say you can, you cannot. Please build to the rules, not around them