

2025 Junior Late Model Rules

**2025 Ages 7 to 15 years old (over/under age pre-approval with Officials is required)**

**2-way radio communication allowed as voted in in 2022 for safety. Not to be used to drive car and will be monitored and penalties can be issued.**

# DIMENSIONS:

Wheelbase

Track width (overall) 46 Maximum L (275cm)

Height - 30 **Minimum**

Fuel Capacity 1- 1 ½ gal

Ride height minimum   side door rail. (Body cannot be lower than the frame)

# BODY:

Laminated Fiberglass

Lexan Windows **NO WINDOW TINTING**

Must be able to see through rear window out front window from behind Primered or Colour Impregnated gel-coat

Available in Monte Carlo, Charger, Toyota and T-Bird / Impala / Toyota / Fusion Roof Hatch must be attached properly and securely.

# ENGINE:

Dyno. Equalized with 2 unaltered Engine Seals Honda GX270  9 Hp.

OHV single cylinder Air Cooled Displacement 270cc

Bore and Stroke 77 x 58mm

Clutch / centrifugal or pad or 4 Disc Gearing-split axle sprocket

Drive-Chain driver

**Seals ** **Crankcase, Head (Mandatory 2022) Side cover over flywheel (Mandatory 2023)**

# CHASSIS:

1   mild steel tubing,    or Chrome-Moly,.085 minimum wall tubing.

Chassis must have an approved 2022 Home Track official tech sticker  tubing type, weld quality, driver safety, technical measurements as et out by rules package.

Driver safety cage

Driver s helmet must be 1 below top of roll cage halo with belts on (**Mandatory**)

Adjustable steering with clearance from steering wheel when driver is belted in seat properly. Adjustable pedals

# SUSPENSION:

Front  rigid spindle supports with camber / castor / toe adjustment / **No ceramic or tapered in front hubs bearing**

**allowed**

Perch style with 3/8 king pin or bolt on arms with a **solid load bolt** for adjustment for wedge must lock in place with

no movement.

**Rear **    live rear axle with track pre-load adjusters **/ No ceramic axle bearings**



**allowed**

# WHEELS AND TIRES:

**Wheels ** **Alum Rims - ** **x **

Tires  Spec. Tires (racing slicks)

**(American Racer ** **M32) or (Hoosier tire ** **MC- 780)**

# SAFETY:

1 gal or 1.5 gal. Fuel cell

5-point harness (maximum 3 years from date stamp) Dris window net

Firewall (between engine and driver)

# BRAKING:

Hydraulic disc brake (rear)

# STEERING:

Rack and pinion 3/8 rod ends

allowed (NO tapered spindles or tapered bearings allowed) All rod ends must steel no alum all bolt and nuts must be nylon lock nuts.

1. **AIR CLEANERS: (Mandatory**)**.** Stock parts only, including filters, as supplied with motor. No ram tubes or ducting allowed**.** Stock air cover not required.

# APPEARANCE:

Racecars participating in racing events must be presentable in appearance at all times. Home Track Tech Officials may reject cars that are considered improperly prepared at any time.

# BATTERY:

Must be anchored securely and separated from the driver compartment by the firewall.

# BODY:

Fiberglass bodies unaltered from production may be used.

# BODY AND APPERANCE:

Body must be straight, sound, stock appearing and in stock position on frame. Alterations or customizing to gain any advantage is prohibited. Original wheel arches must be retained. Original body seams must be retained. No hood pins or fastenings devices out-side of body. Lexan rub r must be within wheel track-   AX.



Cars will not be permitted on the racing surface for practice or races without the car body in place and secure. In the event of an on-track incident where body panels are lost, **Home Track** Officials reserve the right to disallow a car from continuing to compete if they feel there is a safety concern. The front bumper, hood and windshield must be on the car to continue (shielding the driver from outside debris)

In the event a car starts a race missing body panel, it is the responsibility of the team to ensure the car is legal before and after the race. Ie. Meets minimum weight requirements for the division being competed in.

Rear spoilers optional

Rear bumper fiberglass  **30** **roof height (1** **tolerance)**

Front Nose height and **frame 1 inch ground clearance**

# BRAKES:

Hydraulic brakes on rear  Brak fe  otors are allowed



**. Floater hubs allowed only on brake rotor**.



# BUMPERS:

External bumpers are prohibited**. Max size 1x .095 wall, 1 -Rear, 2 -Front.**

# CHASSIS:

All chassis. Alignment may be adjusted i.e., caster, camber and toe-in**. Minimum ride height of 1 ** door frame rail and body to ground.

1. **CLUTCH: Dry centrifugal clutches only**

Engagement springs may be changed. No other modifications.

North American 3pad or Brutus 4pad Jammer or Horstman 4 disc **(15 tooth only MANDATORY)**

# DRIVE-AXLE:

Drive axle sprocket may be changed to acquire desired gearing. Chain length may be altered accordingly. Axle C- Clip on each end of the Axle 1  . only Steel no longer than 44 **No floating drive hubs** allowed both key ways must be in at all times.

# EXHAUST SYSTEM:

Exhaust header only

Pipe size 1 1/4  max, (**Mandatory).**

24 - 26 length measured from exhaust flange at motor to end of muffler measured on outside of bend

no stepping in exhaust pipe tube. All exhaust connections must be sealed i.e. No exhaust leaks. Temperature sensors not permitted in the exhaust system.

Muffler Rule. Optional

# FIREWALL:

Rear firewall must be steel and in original location behind seat with all holes filled.

Top part of firewall behind driver must be made of 1/ Lexan and seal driver from engine compartment.

# FUEL PUMP:

No electric fuel pumps. Vacuum fuel pump only

# FUEL:

Commercially available pump gas or approved racing fuel allowed. **NO straight Alcohol or Methanol allowed**

**some pump fuel contains 8% alcohol.**

# FLOOR:

Floor can be made of 22-gauge steel, or Alum. Sheet metal. Rear firewall must be 22 gauge. Steel only. A steel     **. floor plate under ** **seat (MANDATORY**).

A 3/16 alum. Plate can be used from front of seat to nose of car for petals to bolt to.

# DUCTING:

**No air ducting allowed for any reason.**

# FUEL CELL:

Plastic 1-gallon or 1.5 gal. fuel cell only. Must remain securely mounted in fuel cell bracket. Car will be disallowed from competition if there are any fuel leaks.

DO NOT re-fuel with driver in car and/or engine running.

# GRILLE:

Grille area must remain sealed.

# HOOD:

Hood pins must be used. Fiberglass hoods ONLY. Must remain stock as supplied.

# NOSE:

**Older design chassis to newer chassis are allowed to run ground effects ground clearance minimum**



# IGNITION:

 mounted in such a manner that the engine can be turned off from outside of the car in the event of and emergency. Ignition switch must be labeled.

# INTERIOR:

All interior panels must be 22 gauge. Steel or alum. Rear firewall behind seat to shoulder height must be steel separating driv area from engine compartment Must have front wheel wells made of fiberglass or aluminum

Driver compartment must have padding around all head, arm and leg areas of possible contact. Tie rods and steering components must be covered safely from driver leg area.

# INSTRUMENTS:

Optional tachometer / head temp. gauge allowed only. (No weather stations)

1. **MIRRORS:** ALLOWED

# PAINT AND LETTERING:

All cars must be neatly and brightly painted. Numbers, assigned by the track, must be painted (or decaled) on both sides of the car and roof (readable from right side) in a color offering distinct contrast to color of car. Numbers must be

minim. Numbers must be legible (subject to approval of Head Scorer). N ric   gold chrome or silver but day glow is fine.

**NOTE:** Both front fenders (considered being from nose of car to the number on the door) and windshield banner shall be completely free of lettering of decals. Each **Home Track** retains the right to specify type, size and location of all decals on front fenders and windshield for their speedway and sponsors may differ at each track.

# PEDAL ASSEMBLY:

Location may be altered to suit driver. Steel kart pedal or alum.A.R.C. Assembly allowed.

# ROLL BARS:

Any roll cage repairs must be made    .D. x . g. NO modifications to original roll cage.

**NOTE:** Grandfathered chassis      .

# SAFETY BELTS & HARNESS:

A quick release 5-poi      on is **MANDATORY**. Belts must be securely fastened to the chassis by means of suitable reinforced mounting**. Belts older than 3 years past the date of manufacture MUST** be replaced. Two window nets are mandatory. (Left and right side), or right-side window removable from outside of car with no tools.

# SAFETY HELMET & APPAREL:

HELMET - Minimum Snell rated full-face helmet with eye shield required**. (SA2015 or newer mandatory**) DRIVER SUIT  1- or 2-piece, full body, single layer Proban or Nomex required. (SFI rating mandatory) ABSOLUTELY NO NYLON OR OTHER FLAMMABLE MATERIAL

FOOTWEAR  Full leather upper shoe or Nomex driving shoe required BALACLAVA  Nomex balaclava strongly recommended

ARM RESTRAINTS  Recommended

SOCKS  Nomex socks strongly recommended

Gloves  Single layer Nomex glove or full leather **gloves mandatory**

**Head and Neck Restraints- (Are mandatory for 2022) HANS or Nex-Gen or ZAMP TWO-WAY RADIOS ALLOWED**

**NOTE:** Both left and right-side head support are still needed MANDATORY.

# SEATS:

An Approved Aluminum racing seat is mandatory and must be securely bolted (Grade 8 fasteners only) to the roll cage and/or frame with 4 bolts (2 lower and 2 upper).

Solid and padded Left and Right head rest is mandatory

# WEIGHT:

Minimum weight re uirements (after race completion) **Cars will be weighed with the driver as raced. JR Ages 5-11 is lbs. minimum**



**Sr Ages 12-15 is 650 lbs. minimum**

# WEIGHT LOCATION:

**55% left side percentage**. No front to rear rule.

Weight must be securely bolted between outer frame rails and behind front axle and a head of rear axle centers. With a welded in bracket with 2 bolts and painted white with your number on it

Do not bolt to tin floor only.

# WHEELS:

1 piece  - Blue .125, Black.160, Red .190 thick (6061 alum.), NO LIGHTWEIGHT. Same offset wheels must be used from left side to right side and front to back. Aluminum wheels must be made by Douglas. Spacers on spindle ave to match side to side.

# WHEELBASE / TREAD WIDTH:

All cars must retain a stock wheelbase THE variance that will be allowed **- 60**   **- ½** **between both sides max**.

**Tread width 4** of tire at spindle height

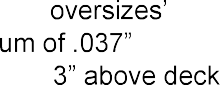
# WINDSHIELD / WINDOWS:

Windshield, rear window, opera windows and firewall window must be retained. Minimum    be used.

NO unapproved marking on windshield. (This includes drivers name, manufacturer identification, etc.)

# MOTORS

**OLD STYLE ENGINE SPECIFICATIONS**

Block may be bored to the three available from Honda, .25mm, .50mm, .75mm Piston dish must be a minim

Piston may be a maximum of .00

Stock Honda rings must be used and installed properly Any ring gap is allowed

Stroke shall be 58mm or m Stoc wed



Spark Plug  open

Stock valves, rockers and keepers, stellite EX allowed Valves may be refaced.

Stock Honda valve springs for the utilized engine make and model ONLY.

9HP carb. Stock Jet and Emulsion Tube allowed only **NO jets larger than 92 allowed NO MODIFIED CARBS. Choke plate and mechanism can be removed**

Minimum **head cc is 26**

3 angle valve jobs allowed

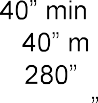
Cylinder head thickness from deck surface to valve cover surface is **3.730: minimum**

Head gasket is compositi  nimum Any flywheel air gap permitted

Stock GX 270 flywheel and locating key Carb **throttle bore .792 maximum** Carb venturi  **max**

Any vacuum operated fuel pump Any camshaft timing allowed

Coil bracket and mounting holes must not be altered from stock NO metal removed or added to the camshaft or clutch being used Cam lobe height intake 1.2 mum 1.2 aximum



Cam lobe height exhaust 1.2 inimum Maximum lift at intake valve .

Maximum lift at exhaust valve .275

Camshaft may not have lobe separation angle changed from stock angle NO porting, NO polishing, NO deburring, NO matching

Seals (head, crankcase) Mandatory 2022 with side cover seal Mandatory for 2023

**NOTE:** All engines must be properly assembled in accordance with Honda shop manuals. I.e.: Piston arrow to the bottom of cylinder, valve guides in stock location **old motors use old parts / new motors use new parts no interchanging**.

\*\* **All parts may be compared with known Honda parts to verify their originality**. One off part will be considered unacceptable manufactures deviations.

ALL DECISIONS BY PIT STEWARDS, CHIEF TECHNICAL INSPECTOR OR EXECUTIVE COMMITTEE MEMBERS WILL BE FINAL, ALL RULES SUBJECT TO INTERPRETATION BY OFFICIALS. RULEBOOKS WILL BE ISSUED TO MEMBERS

GOVERNED BY THE AFOREMENTIONED RULES ARE TO BE SUBMITTED TO NOT LESS THAN 30 DAYS PRIOR TO THE DATE OF INTENDED USAGE. NO EQUIPMENT WILL BE CONSIDERED APPROVED BY REASON OF HAVING PASSED THROUGH INSPECTION UNOBSERVED. RULES APPLY TO ALL RACE EVENTS.

 **crankcase oil use 4-cycle engine lubricating oil that conforms to SAE or API standards with additives. A sample maybe asked for at any time by TECH. For testing.**

Engines may be built by anyone, to accordance to Honda shop manual BUT can only be dyno or sealed by an Approved facility:

Keith Marshman  1-519-245-0425

Dave McAdams  1-519-686-8034

Ryan Custer  1-519-819-0481 (with a serial trace)

**New replacement Rod with bearing is - GX 270 PART# ARC- #6261 MAX Horsepower with stock parts is - approx. 11 HP MAX.**

 **CARBS ** **no interchanging of carbs between motors (New with New / Old with Old)**

**Rules for New GX270VT2**

* 1. Governor may be removed
  2. Decompressor must not be removed
  3. Block may be bored to the three Honda oversize
  4. Piston dish may be a minimum of .037
  5. Piston may be a minimum of .038 below deck
  6. Stock Honda rings must be used & installed properly
  7. Any ring gap allowed
  8. Stroke shall be a maximum of 58mm or 2.287
  9. Stock or .010 undersized rods allowed
  10. Stock Air Cleaner, Filter and Pre-filter must be used.
  11. Spark Plug  open
  12. Stock 25K valves, rockers & keepers, stellite exhaust allowed
  13. Valves may be refaced but not excessively
  14. Any valve spring allowed
  15. Stock carb jet & emulsion tube allowed**. No jets larger than .92 allowed NO MODIFIED CARBS**
  16. Carb must be BE21JA model
  17. Minimum **head CC is 25**
  18. Minimum cylinder head thickness **is 3.728**
  19. Head gasket is **steel .009 thickness**
  20. Any flywheel air gap allowed
  21. Any vacuum operated fuel pump allowed
  22. Only stock ignition timing with stock key allowed
  23. Coil bracket and mounting holes must not be altered from stock
  24. Only early style flywheel & coil allowed (fixed timing)
  25. Carb throttle bore is **.832 max**
  26. Carb venturi bore is **.676 max**
  27. Camshaft intake lobe height is 1.265 max 1.250 min
  28. Camshaft exhaust lobe height is 1.255 max 1.245 min
  29. Max lift at intake valve at 0 lash is .282
  30. Max lift at exhaust valve at 0 lash is .270
  31. Camshaft must have stock lobe separation angle
  32. Three angle seat grinds allowed
  33. No porting, no deburring, no matching

Track Claim rule: Sauble Speedway reserves the right to claim any part of a competitors car to be sent out for inspection. This includes motors to be put on dyno. Sauble Speedway and its Tech Officials can request a part at any point during the season, and have it returned before the next Sauble Scheduled race for the Jr Late Models.