

Kenai Peninsula Racing Lions



A STOCK RULES

Updated 2024

A STOCK

5. A STOCK

5.1 COMPETING MODELS

- 1955 or newer standard size American made sedans and trucks. (2 or 4 door)
- Stock wheelbase will be 102" minimum to 116" maximum (+ or - 1")
- No convertibles, station wagons, four-wheel drive or front wheel drive allowed.
- Car must weight a minimum of 3200 lbs. wet with driver.
- Cockpit cars - B Stock to A Stock (board approval required.)

5.2 BODIES • Destroyed panels can be replaced with stock appearing steel parts.

- Fenders can be cut for tire clearance not to exceed 3".
- Inner fender wells may be cut or removed.
- Both inner door panels may be cut out for door bars.
- Grill may be replaced with wire screen.
- Aftermarket nose pieces allowed.
- All upholstery, glass, chrome, lenses, and fiberglass must be removed from car.
- Driver's window must have race approved removable window net.
- Window nets are always required to be used.
- Firewall and floor pan must remain intact.
- Floor firewall board approval on cockpit modifications.
- All holes must be sealed.
- A fire wall between driver and trunk area must be 20-gauge steel sheeting.
- Spoilers height: 6" maximum height and no wider than the trunk lid.

- Three (3) braces maximum.
- Must be triangular 6" height and 18" length at base
- Aluminum hoods and trunks allowed
- Any stock hood that came on car •No aftermarket hoods allowed.
- No fiberglass hoods or body panels allowed.
- Non firewall mounted clutch, brake throttle pedals allowed within or minus 2 inches from original location. PG 27

5.3 FRAMES

- Must be stock.
- Reinforcement of uni-body mandatory
- Rear of frame behind rear tires, no further forward than one inch behind factory seam, may be replaced in OEM location with two inches by three-inch steel tubing with minimum 0.095" wall thickness, same length as material removed.
- Factory seam must remain visible.
- Uni-bodies must tie rear frame to front frame.
- Frames may be "X" braced.
- Must have a tow hook on front and rear.

5.4 BUMPERS • Stock or basket type front and rear.

- Basket type no more than 1" from outside of body permitted.
- 1-1/4" black pipe maximum for bumpers.
- Bumpers must be reinforced so that they will not fall off on impact.
- Nerf Bars must be level to the center of axles plus or minus 8". Maximum 1" from body and a maximum OD of 1".
- Height must follow spec

5.5 ROLL CAGE

- Must be a minimum of a Six (6) point roll cage with a minimum of three (3) door bars on the driver's side, and a minimum of two (2) door bars on the passenger side.
- Roll cage front hoops are permitted.
- Mandatory fuel cell protection required.
- Roll cage may be made of 1-1/4" black pipe schedule 40 minimum wall. Or 1-1/2" DOM tubing .095" minimum wall.
- Roll bars must be padded within drivers reach

5.6 IGNITION

- Stock electronic or single point distributor. HEI distributor only.
 - No MSD or racing aftermarket types (no amplified ignition).
 - OEM ignition only
- ### 5.7 ELECTRICAL
- Battery must be mounted in a positive cover to contain the acid.
 - Must be securely mounted with steel hold downs.
 - Battery may be mounted in stock location.
 - No bungee cords or ratchet straps on battery. PG 28

5.8 SUSPENSION

- **Must remain stock, A-arms and trailing arms, for make and model.**
- **An all steel, stock configuration, with stock mounting points, non-adjustable tubular A arm can be used to replace the stock A-arm.**
- **No cutting, heating, wedging, or modifying of components.**
- **No coil over or air shocks.**
- **No weight jacks of any kind (adjustable lowering blocks, spring spacers, adjustable shackles, or spring rubbers).**
- **Shock must be in the stock location and in stock mounts only.**
- **One shock per wheel, no heim end, aluminum, and OEM mount, OEM location OEM style only.**
- **Springs must be mounted in stock OEM location and mounting only.**
- **Anti-sway bar must remain stock if you choose to run one.**
- **Non firewall mounted clutch, brake throttle pedals allowed within or minus 2 inches from original location.**
- **OEM split valve shocks allowed.**
- **Heim joint tie rods allowed.**

5.9 SEAT TYPE

- **Factory built aluminum racing seat is required.**
- **Seat Belt**
- **Five (5) point safety harness required**
- **Mounted to roll cage by 3/8" grade 8 bolts minimum.**

5.10 STEERING

- **Must remain stock.**
- **Removable steering wheel allowed.**
- **Steering column must retain collapsible shaft or double u-joint, in stock location.**
- **Steering quickeners allowed.**
- **OEM split valve shocks allowed.**
- **Heim joint tie rods allowed.**
- **Aftermarket OEM style cast iron blocks allowed.**

5.11 REAR ENDS

- **Ford 9" or Chrysler 8-3/4" or a floater style allowed with all makes of cars.**
- **Must be in stock location with stock mounts.**
- **No quick-change rear ends allowed. PG 29**
- **Gear ratio is optional.**
- **Welding of spider gears, mini spools, and posi-track allowed.**

5.12 RADIATORS

- **Only one radiator mounted in stock location allowed.**
- **Must have catch tank mounted for overflow.**

- Aluminum radiators allowed .

5.13 WHEELS

- Maximum wheel width of 8".
- Any rim offset allowed.
- Steel racing type rims permitted.
- No ultralights, or wide 5's.
- 8" bead locks allowed.

5.14 BRAKES

- OEM factory original type brakes only.
- No aftermarket rotors, or calipers.
- All 4 brakes must lock up on inspection.
- Brake shut off valves are prohibited.
- No direct driveline or line lock torque converter (Supposed to run with brake applied)
- Non firewall mounted clutch, brake throttle pedals allowed within or minus 2 inches from original location.
- Aftermarket single brake master and clutch cylinder allowed.

5.15 TIRES

- Tires must be DOT approved for highway use only
- No racing tires studded, or lug type mud and snow allowed, Grooved and sipping tires allowed • 1" lug nuts mandatory on right front.
- No chemical softening or conditioning

5.16 TRANSMISSION

- OEM standard production 3 or 4 speed manual transmission or automatic only.
- No direct drivers or buttons.
- OEM clutches and OEM steel flex plates only.
- No aluminum flywheels.
- Automatic transmissions should have scatter-shields.
- Manual transmissions must have explosion-proof steel bell housings. PG 30

5.17 FUEL DELIVERY SYSTEMS

- One unaltered Holley # 0-4412, 500 cfm carburetor or one 4-barrel carburetor max 650 CFM with a vacuum secondary, single inlet carbs
- Choke tower must be intact.
- Choke butterfly may be removed.
- Single fuel inlet carbs only
- No center pivot float bowls
- No double pumps
- 1" spacer allowed.

- 2bbl to 4bbl adapters allowed.
- Approved racing fuel cell shall be adequately sized to finish a 50-lap race without
- No boat tanks. stopping for refueling.
- Must be securely mounted with two metal straps in rear trunk area.
- If there is not a rear floor pan:
 - The fuel cell shall be enclosed in a container with 4 sides and a bottom. A top to the container is strongly recommended.
 - The container shall be constructed using a minimum of 20-gauge steel or aluminum and be securely mounted in the rear trunk area.
 - The bottom of the container shall not be below the bottom of the frame rails.
 - Tanks must be equipped with a non-spill cap and vent line.
 - PCV valve can be used on vent line.
 - Filler cap must be located inside of the body.
 - No pressurized tanks allowed.

5.18 INTAKE

- Any cast iron or aluminum dual plane, non-air gap manifold allowed.
- Gasket matching allowed. Gasket matching shall not extend more than 1/2" into the ports.
- Edelbrock Aluminum Performer intakes are acceptable as follows:
 - Must be unaltered.
 - No gasket matching, or plenum work allowed.
 - No grinding or removing of any castings or numbers.
 - Only listed intakes can be run, No Exceptions.
 - • GM SBC any dual plane manifold PG 31
 - • Ford 260-289-302 V8 Performer # 289
 - • Ford 351M/400 V8 Performer # 400
 - • Ford 351 Cleveland Performer # LB351-4V
 - • Ford 351 Windsor Performer # 351W
 - • Chrysler 318/360 Performer # 318/360

5.19 EXHAUST

- OEM Style cast iron exhaust manifolds only.
- Manifolds must exit downward.
- Exhaust must exit the rear of the transmission cross member under the car.
- 2-1/2" maximum size exhaust pipe.
- 90 degree turn downs are recommended

5.20 CYLINDER HEADS

- Unaltered OEM or aftermarket stock replacement cylinder heads only.
 - • Stainless Steel valves allowed; no titanium components allowed.
 - Stock GM cast iron Vortec heads allowed,
 - The following unaltered Edelbrock Performer Vortec manifolds shall be used: #

2116, 2716, 7116, 2101, 2701.

- Holly 500 cfm 2-barrel carburetor, part number 0-4412,
- Cylinder heads must reflect casting numbers in original form.
- Maximum Intake and Exhaust valves
 - • 2.02" maximum intake valve.
 - • 1.60" maximum exhaust valve.
- Allowed stock replacement heads. These are bare head part numbers. You can use the comparable "assembled" head.
 - • 1.94 intake valve / 1.50 exhaust valve
 - • EngineQuest # CH350H, CH350A, CH350G, CH350C
 - • EPWI # 175679, 175769
 - • World Products # 043600
 - • 2.02 intake valve / 1.60 exhaust valve
 - • Dart Iron Eagle # 10120010, 10220010 #S/S 170cc intake runner cc
 - World Products S/R Torquer # 042660, 042670
 - • Summit Racing # 152123 #151124, EWP #910535, and 910535CF
 - • EPWI # 175672G, 175762
- UNALTERED MEANS THAT OTHER THAN GASKET MATCHING THE INTAKE AND PG 32 EXHAUST
- VALVE JOBS, GUIDE REPAIR, MACHINING FOR GUIDE PLATES AND RESURFACING ARE ALLOWED PORTS SHALL REMAIN UNTOUCHED.
- IF THE CYLINDER HEAD NEEDS SOME OTHER KIND OF REPAIR, PLEASE CONTACT THE TECH PERSON OR A BOARD MEMBER TO SEE IF THE REPAIR WILL BE ALLOWED.

5.21 ENGINES

- Factory engines, location, and components.
- 180 PSI maximum compression and run on automotive grade pump fuel or avgas only.
- 100 Octane maximum rating.
- OEM and aftermarket cast iron blocks only.
- Maximum cylinder bore size:
 - Chevy 350– 4.060, No 400cid allowed.
 - Ford 351– 4.060, 400M allowed.
 - Dodge 360 – 4.060.
- No porting or polishing allowed.
- No pop-up, dome, or hemi pistons allowed.
- Flat top or dished pistons only.
- No mechanical, roller rockers, roller cams, or lifters allowed.
- Stamped steel roller rockers are not allowed
- Aftermarket stock length replacement pressed pin connecting rods and stock stroke replacement cast crankshafts may be used.
- Connecting rods shall be identical to a scat stock replacement forged I beam –

Part: #3icr5700p.

- **Crankshafts shall be identical to a scat pro stock cast crankshaft – Part: # 9-103750 or a scat 9000 series crankshaft – Part: #9-350-3480-5700.**
- **Stroke must match block.**
- **Hydraulic cams and lifters only.**
- **Firing order shall be stock.**
- **No polishing of rods.**
- **No floating rods or pistons.**
- **Stock replacement rods and cranks only.**
- **Chain and sprocket style timing chain only.**
- **Mechanical or electric fuel pumps allowed.**
- **Electric pumps must have a low oil pressure shut off switch.**
- **Aftermarket OEM style cast iron blocks allowed.**