

# 2024 Cruiser Car Rules

1. **SAFETY EQUIPMENT:** Rules apply at all times car is on track. Snell-rated SA2015 or SA2020 helmet required. Roll bar padding required in driver compartment. ***SFI-approved full fire suit required. Fire retardant gloves, and neck brace (or head and neck restraint) required. Right and left seat head supports required if using head and neck restraint system. Leather Boots, Leather Shoes, or Racing Shoes Required Both Drivers must use a functioning raceceiver.*** Window nets required on both sides, minimum 16 inch by 20 inch ribbon or mesh style, and must be mounted to roll cage so latch is at top front of window and be lowered without assistance. Maximum four inch tall visor attached to window net. Minimum two inch wide SFI-approved five point safety belt assembly required, must be mounted securely to main roll cage. ***Kill switch required within easy reach of driver and must be clearly marked 'OFF' and 'ON'. IF RUNNING LS ENGINE KILL SWITCH MUST SHUT FUEL PUMP OFF.***

2. **Frame:** Any American OEM full body rear wheel drive passenger car, 1964 or newer, full frame or unibody. Frame must match body. Minimum 107.5 inch wheelbase, maximum one inch difference from side to side. Rear of frame behind rear tires, no further forward than one inch behind factory seam, may be replaced in OEM location with two inch by three inch steel tubing with minimum 0.083 inch wall thickness, same length as material removed. Factory seam must remain visible. Unibodies must tie rear frame to front frame. Frames may be "X" braced. No Station Wagons, Camaros, Firebirds, or Mustangs.

3. **Roll Cage:** : Main cage must consist of continuous hoops, minimum 1.75 inch O.D. tubing, with wall thickness of at least 0.095 inch. Recommended: low carbon or mild steel. Four-post roll cage required, front down bars and rear hoop must be welded to OEM frame. Driver's head must not protrude outside cage with helmet on. Rear hoop must have "X" brace, consisting of one full horizontal and one full diagonal bar, minimum 1.25 inch O.D. with 0.083 inch wall thickness. Front down bars must be tied together, passenger side front down bars must be maximum 11 inches in from top of door. Must be minimum 40 inches between outside edge of front and rear down bars at top of door panel. Maximum 41 inches from top center of windshield to front edge of rear hoop; maximum 13 inches to front edge of top halo. Top halo must be minimum 40 inches across, outside to outside. Rear hoop may be maximum 12 inches in from bottom of opera window. Minimum one cross bar in top halo. May have maximum two horizontal bars, (in addition to bar tying front frame horns together) for radiator protection; must be behind bumper, within confines of body, no wider than OEM frame horns. Rear kickers (down bars) and engine hoop required, and must be minimum 1.25 inch O.D. tubing with 0.083 inch wall thickness. Fuel cell protection required, must be mounted frame rail to frame rail, no higher than fuel cell, inside trunk area with maximum 1.75 inch O.D. tubing. All bars must be inside body.

4. **Door Bars:** All door bars and uprights must be minimum 1.75 inch O.D. with 0.095 inch wall thickness. Minimum three door bars, both sides, parallel to ground, and perpendicular to driver. Minimum four uprights tied from frame to top door bar on driver side, and minimum three

uprights on passenger side. Steel door plates, 18 gauge or 0.049 inch minimum thickness, must be securely welded to outside of door bars on driver's side. Plate must cover area from top door bar to rocker panel and from rear down post to five inches in front of seat. Must be visible for inspection.

5. **Body and Driver's compartment:** Must match make of car. Minimum three windshield bars in front of driver. Aluminum high-back seat only and must be bolted in using minimum 0.375 inch bolts. Seats may be no further back than rear edge of B-pillar. Drivers must be sealed off from track, driveline, engine and fuel cell. Dash not to extend more than 24 inches back from center of lower windshield opening. Dash must be flat, rear can be no higher than front, except for cowl in front of driver. No other interior tin or covers. Kick and rocker panels may be removed. Front OEM firewall may be replaced using steel fabricated full firewall, 18 gauge or minimum 0.049 inch thickness. Front firewall may be no further back than the rear of oval frame hole, must be vertical and 24-26 inches tall. All holes in firewalls and floor must be covered. OEM floor may be replaced from OEM front firewall to OEM rear firewall using steel fabricated floor pan, 18 gauge or minimum 0.049 inch thickness, securely welded to frame. Must remain flat, OEM appearing from frame rail to frame rail, no higher or lower than frame rail. Exception is maximum eight inch tall driveshaft tunnel similar to OEM tunnel in size. Rear firewall and speaker deck must be metal and be of OEM design for that make and model. Firewalls must extend to body. No mirrors of any kind. Window nets on driver and passengers side required and drivers must be able to lower them without assistance. ACCELERATOR is to be located on passenger's side, attached to floor and out of reach of driver. There is to be no pedal, wires, strings, or rods, etc. Within reach of driver side.

6. **FRONT SUSPENSION:** All components and mounts must be steel, unaltered OEM, in OEM location and match frame. OEM rubber A-frame bushings only. OEM or OEM replacement ball joints allowed. No screw-in or rebuildable ball joints. No sway bars, spring spacers, chains or cables. Exceptions are: for 1978-1987 GM mid-sized metric frame, OEM upper A-frame may be replaced using aftermarket upper A-frame (steel or aluminum cross shaft allowed), Upper A-frame mount must remain OEM and cannot be moved. No suspension stops of any kind allowed

7. **STEERING:** All components must be steel unaltered OEM, in OEM location and match frame. Exceptions are: tie rod adjusting sleeve may be replaced with 5" steel tube; replacement spindle with Speedway Motors raised cast - part number 91034501 (metric frame only); OEM steering column may be replaced with steel knuckles and steel steering shafts (collapsible recommended), steering wheel and quick release (required) may be aluminum. **Steering quickeners and 6:1 or 8:1 Steering box allowed.**

8. **SHOCKS:** One unaltered steel, nonadjustable, OEM-mount shock, in OEM location, per wheel. All shocks must completely collapse at any time. No shock can pre-load or pin any spring. No external or internal bumpers or stops. No bulb-type, threaded body, coil-over, air, or remote reservoir shocks. No gas port, Schrader or bladder type valve allowed. No coil-over eliminators. Rear OEM shock location is 4.5 inches from bottom of housing to center of bolt hole, and centered on control arm bracket

9. **SPRINGS:** One steel closed end spring per wheel only in OEM location. Minimum 4.5 inches O.D., maximum 13 inch free height, non-progressive coil springs only. No spring rubbers allowed. **Pig Tail Rear Springs are allowed**

10. **REAR SUSPENSION:** All components and mounts must be steel, unaltered OEM or OEM replacement, in OEM location and match frame. OEM rubber control arm bushings only. Center of GM rear lower control arm bolt hole must be 2.25 to 2.5 inches from bottom of housing. No independent rear suspension. No sway bars, panhard bars, spring spacers, extensions, chains or cables. No suspension stops of any kind allowed.

11. **REAR END:** Any steel-approved OEM passenger car or truck rear end (housing and carrier) allowed, but must be mounted like OEM rear end (centered) for that make and model. Safety hubs (floaters) allowed. Solid steel axles only. One inch inspection hole in housing required. Steel or aluminum U-joint caps allowed. No cambered rear ends, heavyweight axle tubes (max .250" wall) or housing braces. Mini spool or Full Spool allowed. Lightened Gears allowed.

12. **BUMPERS/RUB RAILS:** Maximum one inch wide by 3 inch tall steel or lexan rub rails allowed - bolted flush to body. **Front and rear tow hooks mandatory. No sharp edges allowed on bumpers, rub rails or bolts. No bars past outside edge of body other than rub rails.** All front bumpers must be mounted minimum six inches from front frame horns. Steel bumper mounts only. One of two bumper options must be used and must be OEM height: OEM: Bumpers not covered by plastic nose or tail piece must be complete, unaltered OEM, capped to fender with steel, welded or bolted. Aftermarket: Fabricated tubular bumpers (front and rear) allowed, but must be covered by plastic nose or tail piece and bent to fit with rounded ends. Main bumper bar must be minimum 1.5 inch O.D. (maximum two inch) with 0.083 inch (maximum 0.125 inch) wall thickness.

13. **TIRES/WHEELS:** Passenger car tires or Racing tires. All four tires and wheels must be same size. Tires must be inside body. No snow, or all-terrain tires. Maximum eight-inch wide wheel and tires. One inch O.D. steel lug nuts required. **Beadlock allowed on Right Rear only!**

14. **BRAKES:** Must be steel OEM, operative four-wheel, drum or disc. Must maintain minimum OEM dimensions for hubs/rotors and calipers, cannot be lightened. No oil bath front hubs. Bolt pattern may be changed. Larger studs allowed. Rear rotors may be aftermarket 0.81" thickness. Vented solid surface rotors only, no scalloped or ceramic coated rotors. OEM or OEM appearing master cylinder must be in OEM location. No anti-lock brake systems. No aftermarket brake pedal assemblies, brake shut-off, bias adjuster or pressure-sensitive devices. Brake lines must be visible. Rear caliper brackets must be welded to rearend housing.

15. **EXHAUST:** OEM cast iron exhaust manifolds must use maximum 2.5" O.D. exhaust pipes. No center dump type manifolds. Exhaust manifold can be ported and drilled to fit. No adaptor allowed between manifold and head. **Round tube headers only are allowed. All primary header tubes must enter directly into one collector at same point at end of header.**

**Collector and turn down length maximum nineteen inches total. Must remain dual exhaust, no crossover or "Y" pipes. All Exhaust options must exit toward the ground**

16. **FUEL SYSTEM:** Racing fuel cell required, maximum 22 gallon capacity (Recommended: 12 gallon), must be in minimum 20 gauge steel container. Must be securely fastened in trunk above level of OEM trunk floor, behind rear tires, no further forward than factory seam where rear frame rail can be replaced, with minimum one inch square tubing or two solid steel straps around entire cell, two inches wide and .125 inch thick. No fuel cells allowed over rear end housing. Metal firewall must be between driver and fuel cell. All cell mounts must be steel, securely welded to frame/cage. No adjustable fuel cell mounts. Fuel cell vents, including cap vent, must have check valves. If fuel cell does not have aircraft style positive seal filler neck/cap system - a flapper, spring or ball type filler rollover valve is required. Fuel lines through driver compartment must run through metal pipe or metal conduit. One fuel filter allowed, cannot be in driver's compartment. No cool cans. Air cleaner top/stud cannot direct air into carburetor. No top flow air cleaner housings, cold air boxes or air cleaner ductwork. Mechanical OEM type push rod fuel pumps only. No fuel pressure regulators. Fuel shut-off recommended. All engines must use unaltered two barrel Rochester carburetor. Booster may be machined to maximum 0.25 inch ID, 1.375 inch venturi ID and 1.6875 inch throttle bore I.D. Minimum booster height 0.625 inch. Must remove carburetor choke plate. May use carburetor adaptor with maximum 0.25 inch carburetor gasket and 0.100 inch spacer gasket. May use unaltered 500 c.f.m. Holley - part no. 0-4412. All float bowls must face forward. Carburetor adapter/spacer allowed, maximum 1.20 inches thick, including gaskets.

17. **FUEL:** Gasoline only. Racing fuel allowed. No E85. No performance enhancing additives.

18. **WEIGHT:** No ballast allowed. Any item deemed as ballast will be required to be replaced - i.e. fuel cell straps, fuel cell cans, battery boxes, etc. No titanium, magnesium, carbon fiber or tungsten products. No gun-drilled, tubular, hollow bolts or studs. Steel fasteners only

19. **GAUGES/ELECTRONICS:** No cell phones, unapproved cameras, transmitting or listening devices (exception is one-way Race Receiver radio by officials), timing retard controls, or digital gauges (including tach). No electronic monitoring computer devices capable of storing or transmitting information except memory recall analog tach. 12 volt ignition system and HEI distributor only. Ford/Chrysler may use HEI distributor. No crank triggers. Ignition rotor, cap, coil and module must remain OEM appearing. No ignition boxes. All wiring must be visible for inspection. OEM type alternator with internal regulator allowed. No electronic traction control devices.

20. **TRANSMISSION/DRIVE SHAFT:** All forward and reverse gears must be operational. Manual: Must be unaltered OEM three or four speed, with minimum 10.5 inch steel/organic single disc-type clutch and steel pressure plate assembly inside an explosion-proof steel bellhousing - minimum 270 degrees around top of clutch and flywheel area. No lightweight bellhousings. Hydraulic clutch release bearing allowed. Steel unaltered flywheel only - 16 pound minimum. Automatic: Must be unaltered OEM, with unaltered OEM pump. Aluminum OEM bellhousing may be replaced with aftermarket explosion-proof steel or aluminum bellhousing.

Minimum 10 inch diameter torque converter containing a minimum of three quarts of fluid. Torque converter must have a minimum 0.125 inch plug. Must have approved scatter shield constructed of minimum 0.125 inch by three inch steel, 270 degrees around flexplate. Flexplate must be full, unaltered OEM, or OEM replacement. No bump starts allowed. **Drive shaft:** Steel drive shaft (minimum 2.5 inch diameter) and slip-yokes only. **Drive shaft must be painted white.** 360-degree driveshaft loop required and must be constructed of minimum 0.25 inch by two inch solid steel, or one inch tubing, mounted six inches back from front U-joint.

21. **ENGINE COMPARTMENT:** Engine must be in OEM location. On GM metric frame, center of fuel pump must be located minimum 1.75 inches in front of cross member (measured at frame). Ford metric frames must have back of fuel pump in front of cross member. Frame and cross member may not be altered for engine placement. Engine mount holes cannot be removed or altered on block. Aftermarket steel engine mounts allowed. No mid-plate allowed. Engine must be OEM appearing, must be able to be used in conventional passenger car without alteration. GM with GM, Ford with Ford, Chrysler with Chrysler. Minimum two-core radiator, must be mounted in front of engine. Overflow tubes must be directed to ground. (2) Steel or aluminum V-belt pulleys only. No electric fans, surge tanks or vacuum pumps.

22. **ENGINE OPTIONS AND SPECIFICATIONS:** (A) CRATE ENGINE: Must use unaltered sealed GM 602 crate engine. All GM 602 Crate engines with Chevy logo cap seals. (B) CLAIM ENGINE: Any American make engine allowed. **MUST PULL 15" OF VACUUM AT IDLE.** BLOCK: OEM steel passenger vehicle production block only. No GM Bowtie, Ford SVO or Chrysler W components allowed. GM approved block numbers are: 10105123, 10066034, 3892657, 3914660, 3914678, 3932388, 3932386, 3956618, 3970000, 3970006, 3970010, 3970014, 10066033, 10066036, 10243880, 14010207, 14010209, 14010287, 14016376, 14016379, 10054727, 14088528, 14088548, 14088552, 14093638, 14101148. Stroke must match block. No 400 or larger cubic inch parts allowed. Maximum 361 cubic inches (GM); 363 (Ford); 370 (Chrysler). Flat top or dish pistons only. OEM or OEM appearing replacement steel crankshaft only – cannot be lightened. No bullnose, knife edge, undercut or drilling of second or third rod throws. OEM or OEM cast appearing replacement steel rods only – GM 5.7 inch, 6 inch or GM Vortec rod part number 10108688 allowed. Cap screw allowed. Additional approved rods include SCAT Pro Series and Eagle FSI. No splayed main caps. Conventional flat tappet or hydraulic cam and lifters only, cannot alter lifter bores. OEM firing order cannot be changed (GM: 1-8-4-3-6-5-7-2). May use oil restrictors. 'Wet' sump oiling system only. Steel oil pans only. Racing oil pans allowed. Mandatory one inch inspection hole in all pans - no obstructions to crank and rods. Accumulator allowed, must be mounted under hood. CYLINDER HEADS: Steel only. Must be unaltered approved OEM and minimum 76 cc combustion chamber (GM). Only GM OEM approved head numbers are: 14079267, 3986336, 3986339, 3986339X, 3986388, 3932441, 376445, 3928454, 3932454, 3876487, 3973487, 3973487X, 3973493, 3951598, 468642, 330862, 333882, 3998920, 3998991, 3998993, 3998997, 3970126. **Vortec Heads are allowed.** Maximum size valves on these heads are 2.02 inch intake and 1.60 inch exhaust. May use Stock Replacement (SR) cylinder heads: Engine Quest (EQ) part number CH350I, DART part number 91624360, (EQ) Chrysler part number CH318B, World Products Ford part number 53030 - 1.250 inch ( $\pm$  .015 tolerance) maximum O.D. valve springs. All SR heads must remain as produced, seat angles and valve sizes can not be changed: three angle valve job

only (absolutely no casting removal in valve pocket of EQ, DART or World Products head, for any reason); Ford - no SVO heads; Chrysler - no W-2 heads, 360 cubic inch heads only. No porting, polishing or unapproved alterations allowed to any cylinder head or intake. Guide plates, screw-in shouldered studs (GM 0.375 inch max) and polylocks allowed. No stud girdles. Steel roller tip rocker arms allowed. GM - 1.250 inch ( $\pm$  .015 tolerance) maximum O.D. valve spring with magnetic steel retainer and maximum 5/16 inch pushrods, no beehive valve springs allowed. INTAKE: Unaltered aftermarket aluminum Low or Mid rise intake allowed. NO HIGH RISE or AIR GAP INTAKES ALLOWED. No cooling lines allowed. Unaltered OEM type harmonic balancer only. OEM type steel or aluminum water pumps only. **5.3 LS ENGINE ALLOWED MUST USE STOCK HEADS, CRANK, RODS, AND PISTONS. MUST HAVE FACTORY FUEL INJECTION. CAMSHAFT CAN BE SWAPPED FOR A LOW RISE TRUCK CAM ONLY.**

23. **EIRI:** (Except in rare instances) Decisions of officials are final and binding without exception.

24. **Number:** All cars must have minimum 20" tall numbers on both sides.