

2020 PURE STOCK RULES

COMPETING MODELS

1. 1972 to present four-cylinder passenger cars
2. No pickup trucks permitted
3. No four-wheel drives
4. No rotary engines
5. No convertibles
6. No mid-engine cars
7. No Cosworth engines

WEIGHTS

1. 89 horsepower or less, car must weigh 1600 pounds
2. 90 to 110 horsepower, car must weigh 1900 pounds
3. 111 to 129 horsepower, car must weigh 2100 pounds
4. 130 to 149 horsepower, car must weigh 2400 pounds
5. 150 horsepower or more, car must weigh 2600 pounds
6. 149 and less horsepower must have a weight distribution of 40% on the right-hand side and 60% on the left-hand side
7. 150 horsepower and more must have a weight distribution of 45% on the right-hand side and 55% on the left-hand side

Carburetor cars may run one pound per CC with a minimum of 2400 pounds with 55% left side weight (*weights may be adjusted for competition adjustments*)

ENGINE

1. Only a totally stock four cylinder for make and model of the car being raced may be used
2. Maximum overbore allowed is 0.040
3. Compression ratio must remain stock for the make and model of the car being raced
4. Air conditioner compressors and pulleys may be removed
5. The engine must mount in the stock location
6. Any part not covered in these rules must be stock from the manufacturer and have the part ID number visible
7. The size of the engine will be as checked by the track not as the engine started out *i.e.: if the block has been bored your cc's have changed*

CRANKSHAFT

1. Crankshaft must remain stock and unaltered
2. Stroke may not be altered
3. Stock type bearings only

RODS

1. Only stock type rods permitted
2. Aftermarket rods may be used however they must have the same dimensions as a stock rod
3. Rods must be magnetic steel



4. Stock type bearings must be used

PISTONS

1. Engine must retain OEM piston styles (*this includes the number of piston rings ring location, wrist pin location*)
2. If the engine being raced came with flat top pistons, you must have flat top pistons; if the engine came with dish pistons, your piston must have a dish in the top of the piston
3. No part of the piston may extend out of the block 0.000 Deck Height
4. No part of the piston may be removed (*skirts cut to reduce weight*)
5. No holes may be drilled in the piston
6. Poly locks are optional

CAMSHAFTS

1. All camshafts must be magnetic steel
2. All camshafts must match the make and model of the engine being raced
3. Under no circumstances with any engine may the lift on the camshaft exceed 0.500 lift
4. Adjustable timing gears may be used
5. Solid lifters are optional

CYLINDER HEADS

1. Cylinder heads must remain stock, this includes springs and valves (*aftermarket valves may be used; however, the size and every dimension must remain the same as the stock valves*)
2. No porting, polishing, grinding or port matching allowed
3. If a cylinder head has been damaged, repairs must be approved by OCS officials
4. Stock type head gaskets must be used, no high performance super thin head gaskets allowed
5. Pinning of the rocker arm studs will be permitted
6. Rocker arms with inserts shall be permitted

INTAKE MANIFOLDS

1. The intake manifold must remain stock for the engine being
2. No grinding, polishing, port matching, or any other modifications allowed on the intake manifold
3. No coating of any kind allowed on or inside the intake manifold

EXHAUST MANIFOLDS

1. Headers may be used
2. Exhaust pipe must retain the same size as exhaust manifold, from the exhaust manifold to exiting the car with a maximum of 3 inches
3. No coatings allowed on the inside of the exhaust manifold
4. The exhaust pipe must exit to the outside behind the driver
5. The maximum OD of the exhaust pipe at any location is 3 inches
6. No thermal wrap on exhaust pipes or headers

FANS AND RADIATORS

1. Fans must remain stock for the make and model being used
2. Electric fans may be used



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3. Aftermarket radiator may be used; however, the radiator must remain in stock location and with a stock radiator support
4. No antifreeze permitted

CLUTCH AND TRANSMISSION

1. Clutch and transmission assembly must remain stock for make and model
2. Bell housing must have a 2-inch inspection hole
3. Clutch, flywheel, and pressure plate must weigh within 1 pound of factory spec
4. All gears must be in working order
5. All driveshafts must be painted white, and there must be two safety straps around the driveshaft, one in the front and one in the rear.

COMPUTER

1. Engine may not start if the computer is disconnected
2. Computer must be for the make and model of engine being raced
3. Computer is for ignition and tachometer only, no other uses allowed *i.e. on-board monitoring, timing, or traction control*

CARBURETOR

1. Stock carburetor for make and model being used
2. Holly number 7448 two-barrel carburetor permitted (*see carburetor rework guidelines in the OCS general rules*)
3. No thermal wrap on intake system

BODIES

1. Body must remain stock appearing
2. Hoods may be fiberglass
3. Hoods must have a minimum of (3) hood pins on the front of the hood and a minimum of (2) hood pins on the rear of the hood
4. Hood must fit the body of the car to appear as stock must be acceptable to OCS officials
5. Fenders cannot be cut for clearance
6. Wheel wells must remain stock and intact
7. Headlights, taillights, and parking lenses must be removed and openings filled with sheet metal
8. All bumpers must remain in stock location and stock appearing
9. Only stock floor pan and stock firewalls in the stock location will be permitted
10. Inner door panels may be removed
11. Fabricated dashboards are permitted but must remain full and in stock location
12. All glass must be removed. Lexan windshield and rear glass must be installed and secured with support straps, no pop rivets
13. The battery must be mounted out of the driver's area in a steel container or battery box. The trunk area is the recommended location
14. Spoilers maximum height is 5 inches measured from the deck lid to the top of the spoiler
15. Maximum width of the spoiler is limited to the width of the deck lid

STEERING WHEELS

1. Stock steering column only
2. Locking mechanism must be removed



3. All steering wheels must be magnetic
4. All steering wheels must be equipped with a quick release coupling

FRAMES AND SUSPENSION

1. Frames must remain stock for the make and model being used
2. Only stock suspension parts permitted
3. No cutting, lightening, or heating of suspension parts will be permitted
4. Strut towers must remain stock appearing
5. Slotting for camber is permitted
6. Wheelbase must remain stock, plus or minus 1/2 inch
7. Sway bars may run heim joints instead of end links
8. **Must have wrecker hookups under the hood and inside trunk area to safely lift car in case of an accident**

STRUTS AND SHOCKS

1. The struts and shocks must be the same left and right, this includes coil diameter, strut rod, or piston diameter
2. The use of spring rubbers will be permitted
3. Only one spring rubber allowed on the right front, and up to three spring rubbers on the right rear
4. Lowering springs may be used, but must be mounted in factory location and retain factory dimensions
5. Camber for the rear will be a maximum of 2 degrees both left and right side
6. Camber for the front will be a maximum of 2 degrees for the left front and 6 degrees for the right front
7. A claim rule of \$125 per strut assembly (*example shock and spring*)
8. Strut rods and rear tire rod adjustments may be altered for caster, camber, and toe adjustments

RIDE HEIGHT

1. Minimum ground clearance or ride height will be 4 ½ inches, this includes the frame, spoilers, body sheet metal, and side panels

WHEELS

1. Aftermarket steel wheels permitted
2. All wheels must have the same offset
3. A maximum wheel width of 7 inches

BRAKES

1. Brakes must remain stock
2. No brake bias adjusters allowed
3. Rotors and drums must be magnetic steel
4. All brakes must be in working order

REAR ENDS AND DIFFERENTIALS

1. Rear ends and front differentials must remain stock
2. Spider gears may not be welded
3. All CV shafts for front wheel drive must be one-piece magnetic steel



FUEL SYSTEM

1. Fuel cells are mandatory. Maximum volume of 8 gallons
2. Fuel cells must be mounted in the center of the frame rails as far forward as possible. May be open in the bed area
3. A fuel cell protector bar height minimum of 1½ inches in diameter and a minimum wall thickness of 0.083 inches magnetic steel tubing must be used
4. The bar must extend below the frames section behind a fuel cell or the fuel tank
5. Fuel injected cars may use the stock gas tank and must run less than half capacity. A fuel line for these cars cannot run through the driver's compartment
6. A minimum 8-inch ground clearance for the fuel cell

ROLL CAGE

1. Four (4) point cages with curved door bars required
2. Roll bars must be welded and made of a minimum wall thickness of .090 seamless tubing
3. Roll bars must be at least 1 ½ inch OD
4. Roll bar may be extended through the firewall and loop around radiator
5. Roll bars may be extended to the rear deck also
6. Fuel cell protector must be installed behind fuel cell
7. Right side cage must have 4 bars in the door area
8. Driver's door roll bars should have intrusion plates welded to the outside a minimum of 1/8 inch plates.
9. Refer to the Whelen All-American Series rulebook for cage construction guidelines

SEAT BELTS

1. Seat belts must be a 5-point harness type
2. Seat belts must be in date in accordance with the manufacture date on the label. The belts may be recertified
3. Seat belts must not be mounted to the floor pan
4. Seat belts must not cross areas that may cut the belts, i.e. not across sheet metal attached to a roll bar
5. Seat belts must be replaced if they are worn or the edges are frayed

SEATS

1. Aluminum factory made racing seats required
2. Absolutely no homemade seats
3. Seats must be mounted in a manner acceptable to OCS officials
4. Seats may not be mounted to the floor pan

WINDOW NETS

1. An OCS approved window net must be installed on the driver's side window
2. Window net must release from the top and drop down
3. Window net bars must be substantial enough to contain the drivers arms in the event of a roll over

FIRE EXTINGUISHER

1. All cars must have an onboard fire extinguisher
2. Extinguisher must be mounted so the charge gauge can be checked by OCS officials
3. Out of date fire extinguishers are not allowed