



## 2025 Crate (604) Late Model Rules

1. All cars are subject to inspection by Smoky Mountain Speedway officials at any time during the event.
2. Track reserves the right to confiscate any suspicious or deemed illegal components.
3. Track reserves the right to alter or amend these rules at any time in the interest of fair competition.
4. Chevrolet Performance Crate Engine Part #88958604/19318604
5. Weight 2300 lbs. .
  - a. 25 lb. weight break for HANS device.
6. 604 Engines are sealed at the Intake Manifold, Cylinder Heads, Timing Cover, and Oil Pan. The ONLY seals that will be allowed are GM cap seals, Crate Racin' USA seals, (green or black) and Rush Racing Series. **No twist off bolts or yellow or silver seals.**
7. All Crate Engines must remain Stock as they came sealed from the factory. They must not be Altered, Modified or changed from Factory Specs. Any seals that appear to be tampered will not be eligible for competition (cable or cap seals). Cable seals must be installed as specified from Crate Racin' USA or Rush Racing Series. All engines will be checked by the Latest GM Tech Manual. Any other reference material may be used and will be inspected with Smoky Mountain Speedway tech tools unless told otherwise.
8. No changes are allowed to the engine – including but not limited to Intake Manifold, Heads, Valve Covers, Front Cover, Oil Pan, Harmonic Balancer, or any other part or parts on or in the Engine
9. Engine's GM Serial Number, and when applicable, Crate USA build certification number must be clearly visible.
10. Anyone found in violation of Engine Rules and/or Factory Specs inside the sealing system of the engine will result in the Driver and/or Owner being banned from competition at Smoky Mountain Speedway Speedway for 365 days from the date of infraction and pay \$1,500.00 dollars fine before being able to return to competition. The driver will only be able to compete with a factory GM cap sealed engine.
11. Anyone found in violation of Engine Rules and/or Factory Specs outside the sealing bolts of the engine will result in the Driver and/or Owner being Disqualified for that Event and will pay a 500.00 dollar fine before being allowed to compete at the next event.
12. No Vacuum Pumps.
13. Any 4 Barrell Carb, must be Needle, Seat and Accelerator Pump Style.
14. Engine must be Naturally Aspirated.
15. May use one 1 inch, One Piece, Carb Spacer (.040 Tolerance Maximum) with Two Standard Gaskets (Maximum 0.070 Inch Thick) One Gasket Between Intake to Spacer and One Gasket Between Spacer to Carb. At No Point May Spacer Extend into Intake Manifold Area.
16. Any Electronic Distributor Type Ignition System. NO CRANK TRIGGER, DISTRIBUTORLESS MULTI-COIL, OR MAGNETO IGNITION SYSTEM.
17. No Electronic Traction Control Devices.
18. All Cars must have a working Starter.

19. Cast or Aluminum Water Pump. Stock Mounted Water Pump and Fans Only. No Electric Fans. No Electric Water Pump.
20. Collector Type Headers Required. Must have four (4) tubes into on (1) Collector of a consistent diameter. NO TRI Y HEADERS. NO 180 DEGREE HEADERS NO MERGED HEADERS. NO SQUARE TUBE HEADERS.
21. An Approved Fuel Cell (32 Gallon Max) Must be securely mounted in the Trunk area of the car, inside a .20-gauge metal box supported by a minimum of Two 2" By 1/8" Steel Straps. All Fuel Cells must be completely Visible from rear of car.
22. Racing Gas or E85 Allowed. Fuels must have a specific gravity of LESS than (Gas .745 / E85 .786 Anything over will be Disqualified. NO NITROUS OXIDE. NO PROPYLENE OXIDE. NO NITROETHANE. NO MTBE.
23. Fuel Pump must be Mechanical, Cam Driven, or Belt Driven. NO ELECTRIC Fuel Pumps.
24. Power steering pump may be mounted on the front of motor or on reverse mount.
25. Engine Setback will be 6" from Center of Top Ball Joint to the #1 Spark Plug with a 1 " Tolerance.
26. Lucas Oil Body Rules
27. 8 " Spoiler and Sides Only.
28. All Frames must be of steel construction.
29. Square or Rectangular Frame must be a minimum of 2" BY 2" Material .083 Wall Thickness.
30. Round Tube Frame must have a minimum of 1 3/4 " Outside Diameter, .083 Wall Thickness.
31. Standard Late Model Suspensions Only. NO SPRING LOADED OR SHOCK TYPE 4 BAR RODS. ONLY STANDARD SOLID BAR 4 BAR RODS. NO TORSION BAR FRONT OR REAR SUSPENSION. Sway Bar Ok.
32. Standard one piece Bird Cages. NO SPLIT BIRD CAGES.
33. Standard late Model Suspensions equals (1) Shock per Wheel, except on Left Rear. Left Rear is Allowed (2) Shocks One in Front of Rearend and One behind. Shocks must be mounted Vertical to Axle Tube.
34. Chassis Brackets Must Be Fixed. No Movements.
35. Shocks, At Any Position on The Race Car, Including Lift Bar or Torque Arm Shocks Must Be Constructed of Magnetic Steel or Aluminum. No Thru Rod Style Shocks Allowed. No Remote Adjusting Type Shocks. No Inerter or J-Damper of any type Allowed.
36. Minimum Wheelbase 103."
37. All cars must have a suitable steel roll cage protecting the driver's compartment, including headrest.
38. Any Transmission (must have one forward and one reverse gear in working order) NO STRAIGHT DRIVES OR IN AND OUT BOXES.
39. Driveshafts must be painted white. Carbon Fiber are Allowed.
40. Steel Brake Rotors Only NO CARBON FIBER. NO TITANIUM OR OTHER EXOTIC MATERIAL BRAKE SYSTEMS.
41. Any brand or type of wheel allowed. Must be mounted with lug nuts. Maximum Wheel width 14". NO KNOCK OFF OR CENTER LOCK WHEELS.

**Tires:**

1. Fronts - Open
2. Left Rear – Hoosier Crate 21, NLMT 3, American Racer 48, Pro 2.
3. Right Rear – Hoosier Crate 55, NLMT 4, American Racer Pro 4, MD56.

This Class will Qualify and Race on the same 4 tires per event.

1. Any car can protest a tire for chemical alterations for \$150. All protests must be at the scales and be made immediately after qualifying and after the feature. Refusal is an automatic disqualification.

**Protest Rules:**

1. \$1300 complete tear down.
2. Crate engine will be dyno tested with a maximum HP of  $425 + 3\% = 437.75$  HP. If engines make more than 437.75 HP, it will be deemed illegal.
3. Engines will be dyno tested at Probuilt Race Engines using the same fuel, carb, and headers as the test engine.
4. \$600 will to dyno test. \$700 will go to the winner.