2022 Limited Late Model Stock Rules
Revised 8/8/22

$1000 fine for tire soaking $100 fine for antifreeze
The Limited Late Model Limited Division will run under the 2022 NASCAR Advance Auto Parts Weekly Series Late Model Stock Car Rules with the following allowances.

COMPETING MODELS:
2. Ford: Thunderbird, Taurus, Fusion
3. Pontiac: Grand Prix
4. Chevrolet: Lumina, Monte Carlo, Impala
5. Dodge: Intrepid, Charger
6. Toyota: Camry
7. Chevrolet Camaro and Ford Mustang bodies allowed, must be installed at the manufactures specifications and approved by HMS Tech Director. Rear spoiler must meet 2022 NASCAR LMSC specifications.

OVERALL CAR WEIGHT (total/right side)
2. Chevy 8604 Crate engine: 3100/1400 lbs with driver
3. Ford D347SR engine: 3100/1350 lbs with driver
5. Late Model Stock engine: 3100/1400 lbs with driver.
6. 8602 Crate engine 3050/1350 lbs with driver.
7. HMS Enforcer (Harrington Spec) 3100/1400 lbs with driver

When cars are weighed after a race, only water in the radiator, 2 quarts of oil in the engine, and fuel as determined by race officials may be added. No wheels or tires may be changed. Cars must meet minimum weight after qualifying.

DETAILED CAR BODY REQUIREMENTS
1. Refer to LMSC 2022 with the following allowances:
2. 46 inch maximum measurement from the leading edge of front air dam to center line of right front spindle
3. Steel Body cars refer to the LMSC (2009)

GENERAL ENGINE REQUIREMENTS
ZZ4 Crate Motor (PN# 88958603)
1. Engine must be stock out of the crate except for the following.
2. Valve covers may be changed.
3. Oil pan may be changed. Late Model Stock rules apply.
4. Valves springs must be stock for ZZ4 engine (No Aftermarket Springs).
5. Optional: GM 604 “Beehive” type valve springs may be used but be must remain as specified in the GM Performance Parts Circle Track Engine Technical Manual (No Aftermarket Springs). Shimming will be permitted to maintain 1.78” installed height as per GM Performance parts Circle Track Engine Technical manual.
6. Rockers Arm must be stock for ZZ4 engine.
7. Polylatch rocker arm nuts will be permitted.
8. Carburetor Holley HP80507-I 390 cfm stock out of the box. Only changes allowed are the power valve, squaters, screw-in air bleeds and jets. Recommended that boosters be epoxied to carburetor body. Only Holley replacement parts allowed.
9. A one piece open hole solid aluminum carburetor spacer, a maximum 1” in thickness, may be used between the intake manifold and the carburetor. The spacer must be centered on the intake manifold with a single open hole which must be cut perpendicular with the base of the carburetor. Taper, bevels, or any other modifications will not be permitted.
10. A one piece, one hole paper gasket. Maximum .065” thickness that matches the exterior dimensions of the carburetor throttle base plate must be installed between the carburetor and spacer. A one piece paper gasket maximum .065” thickness must be installed between the spacer and the intake manifold. The gasket must not be larger than the top of the intake.
11. The bottom of the air filter housing must be lower or equal to the top of the carburetor vent tubes.
12. Offset air cleaner may be used for distributor clearance.
13. No spacer between air cleaner base and carburetor.
14. Same as LMSC, except offset allowed for distributor clearance.
15. Stock vibration dampener only!
16. Any non-approved modifications may result in confiscation of entire engine assembly including but not limited to intake, starter, valve covers, rocker arms, springs, etc.
17. Crate motor technical specifications will be based on the GM Performance Parts Circle Track Crate Engine Technical Manual part# 88958668 revised 2012.
18. All crate engines must be located with the # 1 spark plug lining up to right side upper ball joint.

GM Fast burn 350/400 Circle Track Engine (PN# 88958604)
Optional Carburetors for Carburetor for GM Fast burn 350/400 Circle Track Engine (PN# 88958604)
Option 1:
1. Fast burn crate engine will use only an approved Holley 2 barrel 450 cfm Carburetor or either stock 500 cfm Holley/500 cfm Holley Ultra XP. Only changes that will be allowed are the power valve, squaters, screw-in air bleeds and jets. Recommended that the boosters be epoxied to carburetor body. Only Holley replacement parts allowed.
5. No deburring or polishing of crankshaft.
4. Stock stroke only.
3. OEM crankshaft only. Maximum 0.050 overbore. Dodge
2. Maximum cubic inch displacement: General Motors

Hickory little motor
1. Must be standard factory production engine.
2. Maximum cubic inch displacement: General Motors – 350 cubic inch plus maximum 0.060 inch overbore. Ford – 351 cubic inch plus maximum 0.050 overbore. Dodge- 360 cubic inch plus maximum 0.035 overbore.
3. OEM crankshaft only.
4. Stock stroke only.
5. No deburring or polishing of crankshaft.
6. Balancing only.
7. Stock, standard balancer only.
8. 600 gram piston/pin combo minimum.
9. 500 gram piston/pin add 50 lbs, 25 on each side.
10. 5.7 length rod Chevrolet, 6.0 length in Ford Chrysler.
11. Heads must be stock standard production. Chevrolet must be straight plug. Maximum valve size intake 2.02, exhaust 1.60. Ford/Chrysler same as LMSC.
12. No Titanium valves or parts
14. Intake Chevrolet Edelbrock #2101, #2116, or GM casting number 12464340.
15. Ford Windsor Edelbrock # M9424-C358
16. Hickory little motor will use an approved Carburetor Holley HP80507-I 390 cfm stock out of the box w/ no spacer. Only changes allowed are the power valve, squirts, screw-in air bleeds and jets. Recommended that boosters be epoxied to carburetor body. Only Holley replacement parts allowed or the 450 2bbl w/ NASCAR legal spacer. Rework guidelines by 2022 LMSC Rulebook
17. Cams may be solid or hydraulic but must have a maximum valve lift of no more than .475 measured at the valve retainer as engine was raced. No rollercams.
18. Roller rockers may be used. Must be 1.5 ratio.
19. Headers may be used. LMSC 2022 type only.
20. Exhaust pipes must be as LMSC 2022.
21. HEI or MSD ignition allowed. No magnetos.
22. 7 ¼” or 5 ½” clutch allowed. Steel flywheel only.

350/350 Crate Motor (PN# 88958602)

1. Engine must be stock out of the crate except for the following.
2. Valve covers may be changed.
3. Oil pan may be changed. Late Model Stock rules apply.
4. Carburetor Holley HP80507-I 390 cfm stock out of the box. Only changes allowed are the power valve, squirts, screw-in air bleeds and jets. Recommended that boosters be epoxied to carburetor body. Only Holley replacement parts allowed.
5. Spacer between the air cleaner base and the carburetor must be attached to the air cleaner and the highest part of the bottom of the air filter housing must be equal or lower to the top of the carburetor vent tubes.
6. 1 paper gasket only maximum thickness .065 each.
7. Offset air cleaner may be used for distributor clearance.
8. Stock vibration damper only!
9. Any non-approved modifications will result in confiscation of entire motor including but not limited to intake, starter, valve covers, rocker arms, springs, etc.
10. Stock timing cover required.
11. Crate motor technical specifications will be based on the GM Performance Parts Circle Track Crate Engine Technical Manual part# 88958668 revised 2012.

HMS Enforcer (Harrington Spec)
HMS Enforcer engine will use only the Holley 2 barrel 450 cfm Carburetor. Refer to 2022 NASCAR Rulebook for Holley 500 cfm Carburetor rules and rework guidelines.

750" thick maximum NASCAR LMSC approved aluminum spacer allowed between carburetor and intake manifold. Engine must be located with the # 1 spark plug lining up to right side upper ball joint.

HMS Enforcer engine technical specifications will be based on the HMS Enforcer Technical Manual. Any engine items not covered in HMS Enforcer Technical manual or Hickory Motor Speedway Track rules, refer to NASCAR Late Model Stock rulebook.

Late Model Stock Engine
1. Refer to LMSC (2019)
2. Late Model Stock engine will use an approved Holley 2 barrel 450 cfm. Refer to 2022 NASCAR Rulebook for Holley 500 cfm Carburetor rules and rework guidelines.
3. .750” thick maximum NASCAR LMSC approved aluminum spacer allowed between carburetor and intake manifold.

Holley 2300 and 2300 HP two (2) barrel Carburetor Rework Guidelines
Reshaping, polishing, grinding, or drilling of additional holes will not be permitted. The maximum size for the air bleed holes in the top of the carburetor body will be 0.080 inch for all four (4) holes. Screw in air bleed jets will not be permitted in the 2300 main body. Screw in air bleed
The following are the currently TRACK approved Head and Neck Restraint Devices/Systems: HANS Device, Hutchens Device.

**SAFETY REQUIREMENTS**

1. At all times during an event (practice, qualifying, and competition), drivers should connect their helmet to a Track approved head-and-neck restraint device/system. The head-and-neck restraint device/system when connected, should be configured, maintained, and used in accordance with the manufacturer’s instructions.

2. IT IS THE RESPONSIBILITY FOR THE DRIVER, NOT TRACK OFFICIALS OR THE PROMOTER, TO INSURE THAT HIS/HER DEVICE/SYSTEM IS TRACK APPROVED, CORRECTLY INSTALLED, MAINTAINED, AND PROPERLY USED.

3. The following are the currently TRACK approved Head and Neck Restraint Devices/Systems: HANS Device, Hutchens Device.
4. ANY ITEMS NOT COVERED IN THE ABOVE RULES WILL BE AT OFFICIALS’ DISCRETION.