

South Boston Speedway/2018 Mod 4 Rules

See General Rules

Changes in Red

Updated 12.13.17

MOD 4 2018 RULES

Car Count/Lap Count

Minimum 4 cars are required to compete in an event. Four (4) to eight (8) cars track officials has option to reduce laps.

COMPETING MODELS

Competition will be open to 1972 and later models of American and foreign four cylinder passenger sedans sold in the United States. No Cosworth Vegas. No mid-engines . No front wheel drives

BODY SPECIFICATIONS

Stock or Aftermarket asphalt style fiberglass car bodies are permitted. Metal, aluminum, Fiberglass or composite bodies can be used no wedge or dirt style bodies

A steel anti-intrusion plate should be installed on drivers side following NASCAR guidelines.

Hood and deck lid must have positive type fasteners.

Front and rear windows required minimum 3/8 inch lexan no plexiglass

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ROOF HEIGHT

bodies must maintain a minimum of 46 inches in height when measured 10 inches back from the leading edge of roof at center of the windshield.

body ground clearance minimum 5 inches

FRAME GROUND CLEARANCE

All cars must maintain a Minimum (5) inches. If frame rails have been added, measurement will be made at frame rails or uni-body seam(lip) where rocker panels and body are joined on stock floor pan cars whichever is lower.

Tube chassis cars will be measured at frame rails

SPOILERS

Maximum (5) inches

Maximum width of rear spoiler will be 50" measured across the rear of the spoiler. Spoiler must be mounted within the center line of body.

Minimum spoiler thickness of 1/8"

DASHBOARDS

All cars must be acceptable to track officials.

FIREWALL

Engine firewall must remain stock on floor pan cars

All race cars must have firewalls made of steel, welded and not riveted.

All holes must be sealed. No spray foam allowed.

IDENTIFICATION AND MARKING

Refer to General Rules

GENERAL ENGINE ELIGIBILITY/CHARACTERISTICS

Different manufacturer's engines will be allowed in different manufacturer's cars. (For example, Nissan engines will be allowed in Ford cars, etc.) These engines must mount in the same location as the stock engine that came out. CRANKSHAFT must be centerline of frame

factory Four (4) cylinder engines only.

Ford may run 2000 cc , 2300cc, 2500cc factory engines Toyota may run 20 re , 22re engines must be manufacturer stock production. Stock stroke must be retained. All short blocks must be stock configuration

.060 overbore permitted on all engines. Blocks may not be decked over .020".

No o-ringing of block allowed.

OVERALL CAR WEIGHT

One pound per cc including driver minimum 2300 lbs

Maximum left side weight will be 55%. On all cars

2500cc maximum engine size allowed

Stock floor pan cars with 2300cc engines or less can run 2300 lbs minimum with no over bore weight penalty

Tube chassis cars with stock 79 to 04 mustang suspension components can run pound per cc but a minimum of 2340 lbs is required

Stock suspension components required

(a arms, spindles, hubs, struts, sway bars, steering rack, rear trailing arms, big springs,)

Tube chassis cars with aftermarket suspension components must run pound per cc and a Minimum of 2400 lbs is required and must meet track approval

3/4 pound per lap allowance

Car weight may be adjusted to equal competition by speedway officials.

Added weight must be in block form of no less than ve (5) pound blocks (no pellets) and painted white with the car number on it. Added car weight must be securely bolted in place. Weight may not be added to the outside of the frame rails or ahead of the front spindles or behind the rear axle or inside the driver's compartment. Dislodged weight will not be permitted to be returned to the car for weighing after race.

Tungsten will not be allowed

DETAILED ENGINE REQUIREMENTS

PISTONS

May use stock or aftermarket cast or forged pistons.

Must have same configuration as stock. Nissan 22 engine must run stock type dish pistons. Flat top pistons allowed only in engines that came that way. Toyota 22R Engines may run dome pistons

No modifications of Bottoms of pistons cannot be milled or altered.

Flat part of piston may not protrude out of block.

Pistons must be installed same as stock.

No ultralight pistons

RODS

Magnetic steel stock or aftermarket rods permitted. No hollow rods. I beam or H beam rods permitted

Maximum length 5.7 for Fords. All other manufacturers must use stock length rods

2 inch Minimum rod journal size for ford motors

Stock rods must be stock length and maintain all stock dimensions for motor being run. Balance pads can be ground for balancing only.

CRANKSHAFTS

Only stock production cranks for motor being run allowed.

No modifications other than balancing permitted. Balancing must be done by drilling, not grinding or polishing. No lightning of cranks, no offset ground cranks permitted

No high performance or knife edged cranks. No grinding or polishing.

Aftermarket balancers permitted.

Strapping of main bearing caps is permitted. Studding of main bearing caps is permitted.

Must be stock stoke

HEADS ,CAMSHAFTS, VALVES , VALVE SPRINGS

Any single camshaft permitted.

Any lifter solid or hydraulic permitted.

Aftermarket or high performance cam pulleys permitted.

Stock ratio factory roller rocker arms permitted if came on OEM heads

Only manufacturer stock production heads for engine being run. No ford aluminum heads permitted
Cam tower bracing will be permitted.

Full Bowl cuts allowed but will be in accordance with nascar LMSC guidelines.

Stainless steel valves permitted. Neck down valves permitted

Milling bottom of head allowed no angle milling

No porting or polishing

Mouse traps allowed on ford engines

must use single valve springs only. Stock diameter dampers are allowed. Shims permitted.

No beehive springs no titanium parts

3 angle valve job will be permitted.

Toyota head bolts may be replaced with stud bolts.

CARBURETORS

All Cars will run Holley 2300 two-barrel (model #7448) carburetor. Stock or NASCAR LMSC rework guidelines permitted

Alterations that, in the judgment of Track Officials, were made to allow additional air to be picked up below the opening of the venturi such as altered gaskets, base plates, and drilling holes into the carburetor will not be allowed

CARBURETOR SPACER AND GASKETS

A one piece aluminum carb spacer (adapter) a minimum of 0.7000 each, maximum 2 inches in thickness may be installed between intake manifold and carb. Holes must be cut perpendicular to base of carb. No taper or bevels. No modifications to plate.

The spacer must be centered on the intake manifold and

centered on the base of the carburetor. Two hole or open spacer allowed

A one (1) piece paper gasket maximum 0.065 inch thickness that matches the exterior dimensions of the carburetor throttle base plate must be installed between the carburetor and spacer. A one (1) piece paper gasket maximum 0.065 inch thickness must be installed between the spacer and intake manifold. The gasket must be no larger than the top of the intake manifold.

INTAKES

No heat shields.

Factory stock or Aftermarket intakes allowed.

Plenum may be modified to adapt to carburetor adapter on EFI intakes

No other grinding or modifications allowed.

AIR CLEANER

Dry, round pleated paper or gauze type air cleaner max. 14 inches in diameter.

No hats, ducts, or baffles

Must not protrude through hood.

No openings in hood or cowl. Hood must seal to fenders and cowl.

Bottom of air cleaner cannot be above choke horn.

ENGINE/ELECTRICAL SYSTEMS

Stock appearing for make and model.

No magnetos

Racing coils, MSD boxes, and REV limiters are permitted.

A push to stop emergency engine shut off switch mounted on the steering wheel is recommended.

BATTERY

The battery must be installed in an enclosed metal box complete with a cover, located in front of the rear axle housing or behind the driver's seat. The battery box must be mounted inside the frame rails and cannot extend below the bottom of the frame rail. The battery mounting position must be acceptable to Track Officials. Any battery that would be installed during the race must be installed in a battery box.

WATER PUMP

Stock production magnetic steel water pumps only.

ENGINE COOLING SYSTEMS

Stock production radiators only or cheap aluminum racing radiator allowed.

Minimum of one (1) quart overflow catch can required.

All radiator overflow hoses must exit from the right side of the cowl area or right rear area.
Toyota may reroute water line to intake.

FANS

Stock type or electric fans may be used. Stock type must be at least four (4) blades and pitched. Stock type must have fan shroud over top of fan.
Aftermarket belt pulley permitted.

ENGINE LUBRICATION

Must use stock lubrication system for car being used.
Oiling system must be factory stock with no modifications
Cheap aftermarket oil pans allowed. Windage trays are allowed Maximum 7 quart oil pan only.

ENGINE EXHAUST SYSTEM

Header wrap is allowed
Any stock or aftermarket header permitted. 3 inch pipe maximum must be same size from header back

DRIVE TRAIN, CLUTCH ASSEMBLY

Stock type clutch and pressure plate only. No high performance parts
Minimum 8 inch diameter clutch disc
No multi disc racing clutches allowed

FLYWHEEL

Stock type and size flywheel only. Flywheel may be aluminum or steel. Minimum flywheel weight 9 lbs
No high performance parts.

BELL HOUSING

Blow proof bell housing recommended.
If stock bell housing is used, a scatter shield of belt material must be installed to floor pan.

TRANSMISSIONS

Must run standard OEM three (3), four (4) or ve (5) speed manual transmission with all gears in working order.
No automatics.

DRIVE SHAFT

Only stock steel drive shaft permitted. Must be painted white.
Two (2) 360 degree drive shaft loops of 1/4 inch thick and two (2) inch wide solid steel required located six (6) inches to twelve (12) inches from each universal joint.
No aluminum drive shafts.
Minimum drive shaft length on tube chassis cars will be 44 inches measured center to center of u joint

REAR AXLE

Must be stock, standard production assembly. Posi-traction and locked units allowed.
Quick change rear ends are allowed but must add 40 lbs
Adjustable pan hard bars allowed.
7.5 inch, Eight inch or nine inch Ford rear ends allowed. No offsets. No floater rear ends
No independent rear axle assemblies allowed.
No cambered rear ends. Zero (0) degree camber with the rear axles level.

BRAKES

Stock brake system for chassis being run. Steel braided brake lines permitted.
Only stock style master cylinders allowed
Working four (4) wheel brakes mandatory.
Must be stock, OEM components
Proportioning valves will be permitted but must be out of drivers reach.
Rear disc brakes allowed

WHEELS

Eight (8) inch maximum width permitted.
Must be 13 inch wheel with same offset on all four wheels.

Car numbers must be painted on wheels.

TIRES

Track approved tires only.

First race of season may purchase (4) track tires.

Maximum (1) new tire per event.

New tire will go on Left Front.

All tires must be scanned into computer to be eligible

Race tires may only be purchased on race day

FRAMES

All stock frame sections must be retained. No cross- breeding of frame components or sections. May use box style tubing to repair front and rear clips on floor pan cars ,Suspension mounting points must remain in stock locations. Leaf spring cars must use stock front mount in stock location. Stock cradle must be used on floor pan cars

Rocker panels may be replaced with tubing

Perimeter style Tube chassis allowed. No offset. Under slung rear chassis not allowed.

Minimum frame height is (5) inches

X bracing of frame is allowed.

Roll Bars And Construction Guidelines

Refer to section 201 NASCAR construction guidelines

SUSPENSION

Only one (1) steel shock or strut assembly per wheel. Upper strut mount may be adjustable.

Only stock standard production sway bars. No rear sway bars allowed.

Spindles and hub assemblies must be stock. Right front may be re-enforced or may use a safety hub.

A-frames and ball joints must be stock with no modifications. Aftermarket replacement bushings are permitted.

Racing springs and lowering blocks, spacers, and shims permitted.

Screw jacks permitted

Stock style trailing arms permitted

WHEELBASE

Wheelbase must be stock for frame being run. Left and right sides must be within 1/2 inch. Maximum wheelbase 101 inches.

Tube chassis cars minimum 99 inch, maximum 101 inch wheel base

TREAD WIDTH

Maximum tread width is 64.5 inches. On all cars

STEERING COMPONENTS

Must be stock for chassis being run. Can run heim joints and spacers on tie rod ends.

Ford rack & pinion may be used on Toyota and Nissan to save on cost.

Lower control arm bracing on Toyotas are permitted.

FUEL

Track gas No additives.

FUEL SYSTEM

Minimum fuel cell capacity is eight (8) gallons. all fuel cells must meet the standard safety requirements.

Fuel cell height minimum 8 inches

Electrical fuel pumps permitted only when used with a Mercury cutoff switch connected to the oil pressure switch. Fuel pump must be mounted in engine compartment.

No electric fuel pumps allowed in trunk.

SAFETY AND CONSTRUCTION GUIDELINES

Refer to NASCAR LMSC guidelines

Additional Rules Coverage

Anything not covered in this rule book must have prior approval from track officials. Anything not covered must be factory stock for car being run.