

STATELINE SPEEDWAY

FREEDOM MODIFIEDS 2023 RULES

SECTION-1 - SUSPENSION AND FRAME

1.1. Coil over front and rear clips mini of .083 wall rectangular steel tubing, bottom section of main frame rails from front firewall back to 5" behind the rear axle housing and where main cage joins the frame. plated and gusseted. Main frame rails must be .095 wall 2x 3 rect tubing

SECTION-2 A-ARMS

2.1. Upper and Lower A-arms must be of steel construction, Aluminum cross shafts and strut supports are allowed

SECTION-3 CHASSIS ADJUSTMENTS

- 3.1. No driver controlled chassis adjustments in the cockpit of the race car.
- 3.2. Brake bias adjustments are allowed
- 3.3. no open tube rear ends and no independent rear suspension

SECTION-4 RACE CAR TREAD AND WHEELBASE

- 4.1. Maximum tread width from outer sidewall to outer sidewall 86"
- 4.2. Minimum wheelbase center spindle to center rear axle 104"
- 4.3. maximum overall length front bumper to rear bumper 17 feet

SECTION-5 RACE CAR WHEELS

5.1. 12" maximum wheel width all wheel must be racing type steel wheels only

SECTION-6 ENGINE SET BACK AND OFFSET

- 6.1. maximum 18" setback as measured from centerline of the left front spindle to the forward most spark plug on left side example #1 on SBC
- 6.2. Engine crankshaft centerline to be centered between the front spindles plus or minus 2"

SECTION-7 REAR-ENDS FLOATER TYPE ONLY

7.1. Quick changes allowed, open style differential also allowed

SECTION-8 TRANSMISSIONS

8.1. OEM and aftermarket transmissions allowed must have 2 forward gears and reverse working internal clutch transmissions allowed

SECTION-9 GENERAL BODY RULES

- 9.1. The car body must be acceptable to Modified Tech and meet the following requirements
- 9.2. Car must be neat appearing and all bodies must be installed on the frame in a manner approved Modified Tech officials
- 9.3. The intent of the body rules is to bring together body shapes and designs from the Modified series around the northwest and west coast into a competitive and compatible modified challenge series type class
- 9.4. Front tires and the right rear tires are to be 100% exposed

SECTION-10 REAR SPOILER

- 10.1 .500 Square inches maximum spoiler size minimum of 1/8 thickness spoilers can be adjustable with maximum of 4 braces front or back of spoiler, the rear spoiler must not be any wider than the standard width of the quarter panels on the bottom and across the top
- 10.2.NO DECALS ON SPOILER spoiler must remain clear for driver vision
- 10.3. A maximum of 36" measured from the ground to the spoiler and quarter panel mounting Point

SECTION-11 FRONT NOSE/AIR BOX

- 11.1. Aluminum, steel, or plastic type like 5 star MD3 bodies are allowed Nose panel must not extend past the outside edge of the front frame rails, bumper brackets braces bolted or welded to frame rails to mount front bumper will be part of the overall frame width, side panels of nose 2" max height above nose permitted to front edge of hood only

SECTION-12 FRONT WINDOWS ALLOWED

- 12.1. Single one piece flat or radius type polycarbonate windshield must be used on driver's 1/8 thick minimum side full windshields are optional
Windshield must be mounted flush with the cowl or dash panel and extended up to the top of the windshield opening in front of the driver MUST be acceptable to tech personal
- 12.2. REAR view mirror allowed

SECTION-13 FIRE WALLS

- 13.1. A front and rear fire walls must separate the driver from the engine compartment and fuel cell area and must be acceptable to modified tech

SECTION-14 HOODS

- 14.1. All cars must be equipped with a hood manufactured from metal or plastic, fiberglass and fastened securely acceptable to modified tech

SECTION-15 ROLL BAR PADDING

- 15.1. All roll bars near driver must be padded with approved padding
- 15.2 Steering wheel padding center must be padded

SECTION-16 KILL SWITCH / IGNITION

- 16.1. Ignition kill switch must be in easy reach of a strapped in driver

SECTION-17 MECHANICAL FUEL PUMPS ONLY

- 17.1. Fuel line routing must be as far from driver as possible and not on outside of frame rails acceptable from modified tech
- 17.2. LS engine package allowed an approved electric fuel pump with oil pressure shut off

SECTION-18 OIL COOLERS ALLOWED

- 18.1. Not to be mounted in driver's compartment or outside the rub rails

SECTION-19 BRAKES

- 19.1. All 4 brakes working mandatory, air deflectors for brake cooling allowed

SECTION-20 THROTTLE LINKAGE

- 20.1. Must have 2 return springs at carb and a pedal stop on the fire wall or carburetor is HIGHLY RECOMMENDED
- 20.2. Heavy duty cable linkages will be allowed acceptable by modified tech

SECTION-21 RADIO / RECEIVERS

- 21.1. Receivers mandatory / radios are allowed

SECTION-22 TRACTION CONTROL

- 22.1. NO TRACTION CONTROL devices are allowed driver suits and what the driver has on his person after race will be watched closely one year suspension if caught

SECTION-23 DRIVESHAFT

- 23.1. Driveline hoop near driver seat area mandatory 2" by 1/4" strap or roll bars trapping it in drivelines to be painted white or silver, steel or Aluminum allowed, NO composite or carbon fiber allowed

SECTION-24 SEAT BELT / SAFETY

- 24.1. seatbelts mounted securely to frame or roll cage and safely thought out subject to modified tech
- 24.2. minimum 3" lap belt 3" shoulder harness and 2" crotch strap not older than 5 years, 2" shoulder harness with head and neck restraints

SECTION-25 DRIVER SAFETY EQUIPMENT

- 25.1. Helmets A2015 snell open faced allowed
- 25.2. 2 layer Nomex one piece or two piece recommended, single layer must wear Nomex underwear
- 25.3. Head and neck Restraints are highly recommended or neck yoke
- 25.4. Nomex gloves, fireproof shoes are mandatory

SECTION-26 ONBOARD FIRE SUPPRESSION SYSTEM

- 26.1. All race cars must have a functional fire suppression system
- 26.2. System must be functioning 2 nozzle system one nozzle to engine compartment and 360 degree nozzle in drivers compartment metal line no plastic plumbing anywhere
- 26.3. Controller location optional but must be within easy access of driver and safety crew
- 26.4. Mandatory in all cars
- 26.5. mandatory for all car owners to have a functioning 5LB Fire Extinguisher in pit area

SECTION-27 DRIVERS SEAT

- 27.1. Seat to be mounted to frame and roll cage securely
- 27.2. Aluminum racing seat mandatory must have rib and head supports

SECTION-28

- 28.1. full containment seats highly recommended

SECTION-29 BATTERY CONTAINMENT

- 29.1. No batteries in drivers compartment
- 29.2. Must be securely mounted and sealed
- 29.3. Battery kill switch is Mandatory and accessible by driver and safety crew

SECTION-30 ROLL CAGE, RUB RAILS AND BUMPERS

- 30.1.Construction: Roll cage construction 1 ¾ .090 D.O.M minimum
- 30.2.Front clip 1 ¾ .083 minimum and 1 ½ .083 rear clips minimum
- 30.3.Drivers door bars 4 horizontal 1 ¾ D.O.M or ground .090 minimum with 2 uprights between each horizontal door bar inline with each other, cars with three door bars will have minimum 12 gauge plate welded between horizontal door bars
- 30.4. 4 door bar cars 12 gauge plate either weld between center two door bars minimum or bolted securely in position,
- 30.5.Passenger door bars; passenger door bars to consist of a 1 ¾ minimum top bar and an X configuration from top bar to frame
- 30.6.Rub rails: Rub rail required front and rear wheels to extend no further out than 1" from the outside edge of tires. Must be 6" from rear tire and 10" front tire at bend, Height will be centerline rear wheels, 1" minimum tube size, All rub rail to be capped and have rounded ends no sharp edges, .090 recommended for all rub rails no aluminum rub rails, all rub rails shall be exposed outside of the side panels
- 30.7. Rear bumpers to extend minimum center of rear tires no more than outer edge of rear tires,Fabricated bumpers may use a 3" aluminum i beam with flat flange facing to rear (Contact point) no sharp edges or Angles front and rear bumpers must have 16"contact center from the Ground

SECTION-31 SHOCK RULE

- 31.1.Aftermarket adjustable shocks allowed of your choice

SECTION-32 TIRE RULE

- 32.1.Hoosier 3035 left and 3045 right max of 4 per race Per availability from manufacturer's

SECTION-33 MUFFLERS

- 33.1.92 DB mufflers mandatory

SECTION-34 SAFETY

- 34.1.All cars will pass safety inspection prior to participating in competition
- 34.2.Fuel cells are mandatory must be enclosed in a metal container minimum 16 gauge
- 34.3.Must have a fuel cell guard to prevent collision entry also straps top and bottom,
- 34.4.Must have check valve in vent tube of fuel cell plate (one way vent)

SECTION-35 BASE ENGINE / RULES FREEDOM MODIFIEDS

- 35.1.364 cid max for all manufacturers
- 35.2. Maximum 200cc cast iron or Aluminum heads allowed a 1% over cc volume when teched or protested =202 cc max no gray area
- 35.3.Compression ratio of "under" (12.0 to 1) 11.5 to 1 is the intention so do the math it's clear
- 35.4.Camshaft : Flat Tappet in base Freedom engine package
- 35.5. Any Single or Dual plane Aluminum intake manifold
- 35.6. 1- 4150 holley carburetor
- 35.7. Maximum carb spacer of 2" any combo
- 35.8. Cast iron Blocks "ONLY"- OEM or Aftermarket Allowed
- 35.9. Wet or Dry sump's are allowed
- 35.10. CRANKshaft centerline height on all cars no matter the engine PACKAGE " example" if you run 4" ride height your crankshaft centerline height = 10" "example 3"ride height crankshaft centerline height 9" and 2" is 8" crankshaft centerline height if 5' ride height your crankshaft

centerline height is 11" hope you get the drift there will be no 5-6 inch ride height cars cheating the intent of this rule Dry sump motor packages will be strictly teched on crankshaft height

35.11 .Freedom modified base engine package above total weight 2550 -58% left side weight ,if you opt to run the aluminum head 202cc max option 25 pounds will be mounted securely to the front clip kick up /dog leg painted white and accessible with car # painted on it, your base weight is still 2550 - 58% left side

35.12. ALL ALUMINUM headed engine packages in the Freedom Modified rules are subject to the 25 pds added to front clip dog leg /kick up as part of their total over all weight for their engine package

35.13. Roller camshafts are allowed in Freedom modified engine package with a 25 pound weight add to the total over all weight= 2575 pds 58% left

35.14. All built engine packages including Freedom Modified package maybe be subject to a 1.000 governor restrictor plate determining factor will be set off from the percentage of sealed crate engine packages participating with the Freedom challenge Modifieds

35.15. 602 GM sealed or yellow tag seal from approved builders holley gauge legal 650 or 750 with maximum 1- 1"carb spacer, 1210 x pac valve spring upgrade ok 6200 rev chip mandatory and accessible to tech and out of reach of the driver while strapped in car strictly enforced.Max hp at the flywheel 385 hp total weight (2500 pds 59.0 % left side) no variant 59 %

35.16. 604 GM sealed or yellow tag seal from approved builders valve spring upgrade allowed 650 gauge legal holley carb 1- 1" carb spacer 6400 rev chip mandatory and accessible to tech and out of reach of the driver while strapped in the car strictly enforced, Max hp at flywheel 430hp total weight(2500 pds 58.0 % left side

35.17.Ford Racing M-6007-D347SR ford sealed or yellow tag seal from approved builders holley gauge legal 650 with 1- 1" carb spacer 6400 rev chip mandatory and accessible to tech and out of reach of the driver while strapped in the car strictly enforced, Max hp at the flywheel 430hp total weight (2500pds 58.0% left side)

35.18. Speed/tour SRL type modifieds with crate or built engines ALLOWED, crate engine SRL legal will run same weight rules as above crate engine packages rule #15. and #16-#17, 602 GM sealed or yellow tag sealed (2500 pds 59.0 % left side) Built engine packages(2600 pds 58.0 % left) "Built" engine packages Freedom modified speed/tour modified packages could be subject to 1.000 governor plate! suggestion get a governor plate and 1.000 inserts again this will depend on the ratio of "crate to built" engine packages participating

35.19. 4.8 -5.3 -5.7 -6.0 LS series motors cast iron blocks "ONLY" max over bore of .030 over on 6.0 LS engine, max cid 365 which is 6.0 liters

35.20. 212 cc max intake runner size aluminum heads allowed

35.21. under 12.0 to 1 compression intention is 11.5 to 1 target 12.0 to 1 is illegal

35.22. Any single or dual plane Aluminum intake 4150 flange

35.23. Hydraulic Roller cams allowed

35.24. GM LS 1 front distributor drive conversion kit with ford fuel pump allowed

35.25 . 6014CT msd ignition controller allowed

35.26. electric fuel pump allowed with oil pressure shut off switch

35.27, Belt drive fuel pump allowed jones racing products

35.28 . No magnetos allowed

SECTION-36 OPEN ENGINE QUALIFICATIONS FOR ALL MODIFIED'S

36.1.Over 365 cid 2600 pds 58% left side

36.2. Over 12,0 to 1 compression 2600 pds 58.0%

36.3.Over 202 cc intake runners 2600 pds 58.0% left side