



# FAIRGROUNDS SPEEDWAY NASHVILLE



## 2017 Super Truck Rule

(Competing on 5/8 mile Track)

Speedway officials retain the right to determine eligibility.

Notice: All equipment is subject to the approval of officials. No equipment will be considered as having been approved by reason of having passed through inspection unobserved. Any equipment which does not conform to specifications or tolerances contained in this rulebook, will not be eligible for approval.

**Note:** All cars must comply with the rules set forth by the Fairgrounds Speedway at Nashville rule book to be eligible for competition. Any and all cars/trucks are subject to FSN technical inspection processes. FSN is not required to follow any other sanctioning bodies or manufactures guidelines in its technical inspections

### 1. WHEEL BASE/ TREAD WIDTH

1.1 Minimum wheelbase is 105 inches (+ or - 5/8 of an inch)

1.2 Tread Width is 66" inches maximum for all. Measurements taken "as raced" no adjustments can be made.

### 2. BODY AND APPERANCE

2.1 Legal body is the AR extended cab truck body following the manufacturer specific guidelines and measurements and may run Lightning Lite Body Package.

2.2 No lightweight carbon fiber or Kevlar parts allowed.

2.3 Body must be on centerline of the distance between the outer edge of the tires front and rear, within (2) inches.

2.4 Bumper cover may be rubber, plastic, or fiberglass.

2.5 Floors minimum thickness .024, mounted in standard position, must be completely intact and completely sealed.

2.6 For exhaust systems only, the floor area on the right side of the seat may be raised panels, maximum of (10) inches from to the top of the driveshaft tunnel and extended to the right door panel.

2.7 Interiors must be completely enclosed between the both firewalls with no less than 24 gauge (.025) steel or aluminum.

2.8 Tires may not protrude more than 2" beyond outer edge of the body. No bubble fenders allowed.

2.9 No wings, or vertical airfoil stabilizers. No belly pans or ground effects allowed.

2.10 Truck beds must be square within 3/4" inch of cab centerline.

2.11 Minimum roof height will be 54 1/2", 10" from of top of windshield and maximum of a 1/2" of rake at rear.

### 3. REAR SPOILERS

3.1 Max. 64" wide and 8" tall and not to exceed 47 1/2" from ground to top of spoiler, must be on centerline of truck bed with no offsets.

### 4. WINDSHIELDS

4.1 A full clear front and rear windshield of .063 minimum Lexan with a minimum of (2) windshield braces.

4.2 No tinting on any windows.

### 5. ENGINE LOCATION ALL VEHICLES

5.1 GM engines must be located center of the #1 spark plug is in line with top left ball joint.

5.2 Ford and Chrysler engines must be located front edge of the right cylinder head is in line with the centerline of the right side ball joint.

5.3 Center of the crankshaft must be within 1/2" of the centerline of the frame rails.

### 6. CRATE ENGINES (All engines Built or Crate are subject to impound for dyno or teardown at any time)

6.1 All crate engines will only be allowed 1.6 ratio rocker arms (not to exceed 1.65).

6.2 Stock Beehive valve springs allowed or use stock GM# 12551483

6.3 Must meet all guidelines and specifications outlined in part# 88958668 (Yellow Book) unless specified.

**Crate engines may be refreshed, but must retain all manufacturers' specifications. No Reground cams. Maximum Compression all engines 10.0. Recommended Rocker Arms will be Crane Cams.**

### 7. ENGINE GROUND CLEARANCE ALL VEHICLES

7.1 Minimum height of (11) inches from the centerline of the crankshaft to the ground at ride height.

### 8. ENGINE DISPLACEMENT MACHINE ENGINES

8.1 Ford and GM engines displacement is limited to 358 cid.

8.2 Chrysler maximum is 365 cid.

### 9. ENGINE BLOCK MACHINE ENGINES

9.1 Must be standard cast iron factory production with standard external measurements in all respects

### 10. ENGINE PISTON AND RODS MACHINE ENGINES

10.1 Any flat top pistons may be used. Piston may be flush with top of block.

10.2 Only steel connecting rods permitted no titanium or stainless steel connecting rods.

### 11. OIL PANS AND OIL SYSTEMS MACHINE ENGINES

11.1 No dry sump systems allowed.

11.2 Oil pump must be in stock location.

## **12. CRANKSHAFT AND BALANCER MACHINE ENGINES**

- 12.1 Only magnetic steel or cast iron production design crankshafts allowed.
- 12.2 Stroke may not be increased or decreased: GM 3.480, Ford 3.500, and Mopar 3.578.
- 12.3 Counterweights must not be altered, may be polished.
- 12.4 No knife edging, under cutting, or drilling to lighten the crankshaft.
- 12.5 Crankshaft weight min. will be 50 lbs. including timing chain sprocket.

## **13. CYLINDER HEADS MACHINE ENGINES**

- 13.1 All cylinder heads are subject to approval.
- 13.2 Cylinder heads must be completely cast iron.
- 13.3 Intake and exhaust ports must be in the original "as cast" configuration, NO porting, polishing, acid treatment, or blasting will be permitted.
- 13.4 Cylinder heads must be stock OEM produced cast iron, two valves per cylinder.
- 13.4 (B) Only World Products Sportsman II SBC part number 011150, casting number 1-037, aftermarket cast iron cylinder heads with a 23 degree valve angle will be permitted as a replacement for the Chevrolet Bowtie head, casting number 14011034 cylinder head. These World Products Sportsman II SBC cylinder heads must be the current design with the manufactured date of 4/13 and later stamped on the cylinder head. These World Products Sportsman II SBC cylinder heads must conform to all cylinder head rules. The 2101 Edelbrock Performer Duel Plane Intake must be used ONLY with these cylinder heads. NO EXCEPTIONS.
- 13.5 All cylinder heads are limited to a minimum 62cc combustion chambers.
- 13.6 The combustion chamber may be machine cut beside the valve only to equalize the chamber cc's.
- 13.7 Any other machining or grinding will not be permitted.
- 13.8 Angle cutting of the head to block mating surface will not be permitted.
- 13.9 Pro Flow valves permitted. Upper valve stems minimum diameter 11/32.
- 13.10 The maximum valve size as measured across valve face are as follows:
  - A. GM: 2.020 intake/1.625 exhaust
  - B. Ford N351: 2.020 intake/1.600 exhaust
  - C. Mopar W2: 2.020 intake/1.655 exhaust
- 13.11 A maximum of (3) valve seat angles plus the bowl cut will be permitted. When cutting the valve seat angles, stone or grinding marks will not be permitted above the bottom of the valve guide. All cutting in reference to the valve job and bowl area must be centered off the centerline of the valve guide. Radius cuts will not be permitted. Upon completion of the valve job, the bowl area above the valve seal to the bottom of the valve guide must still be in the same configuration as far as shape and finish as it was from the manufacturer. Surfaces and/or edges where the cutter of the stone has touched must not be polished. Hand grinding or polishing will not be permitted.
- 13.12 Any steel magnetic valve spring permitted.
- 13.13 No titanium parts are allowed anywhere, except valve spring retainers.

## **14. INTAKE MANIFOLDS MACHINE ENGINES**

- 14.1 Track Officials may use an intake manifold provided by the manufacturer as a guide in determining whether a competitor's intake manifold conforms to the specifications of the rule book.
- 14.2 Intake manifolds must remain as manufactured.
- 14.3 Port matching or flow work will not be permitted.
- 14.4 Intake manifolds must not be painted or coated internally.
- 14.5 Intake manifolds allowed:
  - A. GM: #7530 Weiand or Edelbrock Victor Jr. #2975, Dual Plains Edelbrock Performer #2601 & #2604
  - B. Ford: Edelbrock, #2750, #2665 or #2980. Weiand Xclerator #751, Dual Plain Edelbrock #3781 & #2181
  - C. Chrysler: Edelbrock Victor Jr. W2 or Weiand Xclerator #7545.
- 14.6 Only (1) standard flat gasket mat be used between the head and intake manifold. Max. Thickness .075 compressed.

## **15. CAMSHAFT, VALVE LIFTERS AND ROCKERS MACHINE ENGINES**

- 15.1 Any flat tappet cam will be allowed.
- 15.2 No automatic cam timing devices allowed.
- 15.3 Camshaft bearings must remain stock type Babbitt (no roller).
- 15.4 Only stock size and steel lifters are permitted. No roller or mushroom type permitted.
- 15.5 Shaft rockers not allowed except approved Chrysler engines.

## **16. EXHAUST**

- 16.1 All competing vehicles must have a working exhaust system with a muffler that meets a maximum of 90 dba.
- 16.2 Exhaust cannot protrude through the door and all exhaust tubing 4" OD maximum.
- 16.3 Under chassis or crossover type headers allowed. Custom one of a kind or homemade headers must be approved.

## **17. CARBURETOR CRATE ENGINE AND MACHINED ENGINES**

- 17.1 All crate engines must run Holley 4150 #80541-1 650 CFM 4 barrel. Carburetor must remain box stock. You may change jets, air bleeds, & power valves.
- 17.2 Machine Engines carburetor must run Holley #4412 500 CFM 2 barrel. **Open carburetor with exception of base plate, butterflies, and shaft, and screws must remain unaltered Holley #4412. Open carburetor must not be HP body, metering block is open and can be HP metering block, may run stock unaltered HP base plate. However Throttle Shaft, butterflies, and screws cannot be HP components.**

## **18 CARBURETOR SPACER, GASKETS AND MOUNTING CRATE AND MACHINED ENGINE**

- 18.1 All crate engines must run CV156 or equivalent aluminum 4 hole spacer unaltered with max openings of 1.690.
- 18.2 Machined engines are allowed a 1 piece solid aluminum spacer, max. Thickness of .750 inch. Spacer must be centered on the intake and have 2 round holes not to exceed 1.690 inch, located in the center.
- 18.3 Carburetor and spacer gaskets maximum thickness of .060 each and must be pliable paper material.

18.4 Throttle stops highly recommended, with (2) return springs opposing each other.

### **19. AIR INTAKE**

19.1 Round dry type element, maximum of 4" tall and 14" diameter allowed.

19.2 No chemical treatment to element allowed.

19.3 Only round metal air filter housings will be permitted. Top and bottom of housing must be solid and must be same diameter. Lips or expanded edges will not be permitted.

19.4 No ram air, ducts, baffles or air dividers will be allowed on or leading to the air cleaner or element.

19.5 Fresh air openings of any type will not be permitted in the hood or cowl area.

19.6 Any device which may control flow of air will not be permitted inside of the air cleaner between the air filter housing and carburetor.

19.7 Up to 1" inch maximum spacer allowed between bottom of air filter housing and carburetor for throttle linkage clearance.

### **20. FUEL SYSTEMS**

20.1 FSN fuel only. Tested samples will be compared to FSN sample.

20.2 No oxygen bearing or performance enhancing additives allowed. No cool cans, icers, or fuel cooling devices allowed.

20.3 Stock type mechanical pump only in stock location only.

### **21. ELECTRICAL SYSTEM**

21.1 12 Volt systems only and battery must be located forward of rear axle.

21.2 Approved battery powered stock type distributors only.

21.3 No traction control devices allowed.

21.4 On/Off master switch required and clearly marked and easily accessible to track safety crew. Must be wired to battery cable in a manner to cut off all electrical power.

21.6 One FAST Ignition part # 6000-6701 only as produced from FAST and mounted on right side of truck with dials pointed out the passenger side on original plate. The mag positive & negative shall be a maximum length of 62 inches. Must remain uncut or spliced and on top of dash in clear view which Mandatory 6900-RPM for Machine and 6400-RPM for Crates.

### **22. COOLING SYSTEMS**

22.1 Any metal or aluminum radiator allowed in stock location not requiring any body modifications.

22.2 Overflow tube must exit to right side of windshield or cowl or a permanently installed metal catch can ahead of firewall.

22.3 Antifreeze is not allowed. Any vehicle found with antifreeze will be disqualified from the event and lose all points and monies from that event. NO EXCEPTIONS!

### **23. CLUTCH**

23.1 Multiple disc clutches with steel floaters and pressure plates permitted, minimum 5 ½" in diameter. Solid magnetic steel clutches and pressure plates only. Clutches must be positive engagement design. Slider or slipper clutch designs are not permitted. No carbon fiber clutches. Clutches found not to meet this definition will be deemed illegal.

23.2 Bell housing can be Aluminum or steel.

### **24. TRANSMISSIONS**

24.1 Standard stock production model OEM manual transmission allowed.

24.2 Minimum of 3, maximum of 4 operable forward gears and reverse.

24.3 All gears must be in working order (except first gear in 4 speeds).

24.4 No straight cut gears. No lightening of gears or main shaft.

24.5 Quick change transmissions not allowed.

### **25. DIFFERENTIAL**

25.1 Quick change or 9" Ford configured rear ends allowed.

25.2 Full floating rear ends allowed.

### **26. DRIVE LINE**

26.1 Rear wheel drive configuration only.

26.2 Two 360-degree drive shaft loops mandatory, installed fore and aft of drive shaft.

26.3 One piece steel drive shafts only. Minimum diameter of 2 ¾ and **Must be painted WHITE.**

### **27. BRAKES**

27.1 Brakes must be operational on all 4 wheels.

27.2 Conventional hydraulic type brakes system only, no ABS type.

27.3 No brake fluid recirculators.

### **28. FRAMES**

28.1 Only Perimeter fabricated frames must follow stock stub specifications with modifications permitted for clearance for the following: oil pan, fuel pump, headers, steering shafts, and springs and no under slug. Installations of sway bar, motor mounts, upper A frame mounts and weight jacking bolts will be permitted. Any other modifications must be approved. The distance from the inside edge of the frame rails, left and right must be within 1" of the centerline of the tread width front and rear. No holes may be cut in frame to lighten frame rails.

28.2 Frames rails must be parallel and constructed with minimum 2"X 3" steel square tubing with a minimum wall thickness .083.

### **29. ROLL BARS**

29.1 Round steel 1 ¾ "x .090 roll bars are required and must be approved.

29.2 Nascar style cage with min. of 4 door bars on driver's side, passenger side may be X'ed. Foot guard bar or plate mandatory, welded in place by clutch pedal to protect drivers left foot.

29.3 High density roll bar padding required within reach of driver.

29.4 Door bar deflector plates, welded to cage on driver's side are recommended.

### **30. SUSPENSION**

**30.1** All parts of rear suspension must be solid, one piece construction with no moving parts, with one heim at each end. All mounts for trailing arms, third links and track bars must also be solid and may not have the ability to move.

**30.2** Steel springs only.

**30.3** No bump stops allowed. NO EXCEPTIONS.

**30.4** Adjustable aluminum racing shocks allowed. Limit of 1 shock per tire. All shocks may be claimed after race (\$700 for all 4), by a competitor finishing behind claimer after event. Must finish in top five to claim. Refusal to sell will result in shocks not being eligible to be used in competition for the remainder of the season and will be confiscated by track until end of season.

**30.6** No cockpit adjustable shocks or remote reservoirs are allowed.

**30.7** No devices mechanical, electrical, or hydraulic for shifting weight will be allowed.

### **31. SPINDLES/HUBS**

**31.1** Stock hub and rotors or steel hub with after-market steel rotor optional.

**31.2** Aluminum 5x5 or wide 5 hubs allowed. No magnesium.

**31.3** Approved cast, forged, steel after-market spindles allowed.

### **32. STEERING**

**32.1** Rack and pinion steering not permitted.

**32.2** An approved quick release steering coupling on steering wheel is mandatory.

### **33. GROUND CLEARANCE**

**33.1** Frame rails and body 3" inch minimum at all times.

**33.2** All body components 3" inch minimum at all times.

**33.3** Fuel cell 8" minimum ground clearance.

### **34. Wheels**

**34.1** Steel 10" wheels only.

**34.2** Bleeder valves are not allowed.

### **35. Tires**

**35.1** Tires must be purchased from FSN and will be impounded.

**35.2** Track Tire Only. No soaking or altering of tire in any manor allowed. Drivers soaking or altering tires will forfeit all purse and points for the event and all track points for the year. Driver must also pay a \$1,000 fine prior to being allowed to compete at Speedway. Any illegal tire, in the judgment of Speedway Officials, will be confiscated.

### **36. Weight**

**36.1**

**A.** 604 Crate 3050 lbs. 57% left side. See section 6 for engine guidelines.

**B.** 603 Crate 3000 lbs. 57% left side. See section 6 for engine guidelines. **(Will not be allowed in 2018)**

**C.** Machine engine with 500 cfm 2 barrel. 3050 lbs. 57% left side. **(Will not be allowed in 2018)**

**36.2** All weights attained with driver in seat.

**36.3** A (1) lb. per lap burn off will be allowed.

**36.4** Added weight must be in block form of no less than five-pound blocks (no pellets). Added weight must be securely bolted in place. Dislodged weight cannot be returned to car for weighing after race. All added weight must be painted white with car number in red or black. Any lost weight will result in a \$10 per pound fine to the Driver. ***No Tungsten or similar weight allowed!***

**36.6** Weight may not be ahead of the front spindles or in driver's compartment.

**36.7** All official weights are determined by the FSN scales only.

**36.8** Management reserves the right to adjust, alter or change weights as deemed necessary.

### **37. FUEL CELL INSTALLATION**

**37.1** No "U" Shaped Fuel Cells or non standard-shaped fuel cells and must be vented with maximum 1" vent to outside left rear of body with OBERG Fuel Valve # SV-0828 Mandatory mounted on fuel cell.

**37.2** Fuel cells in all vehicles must maintain 8" inch ground clearance.

### **38. GENERAL POLICY**

**38.1** Two-way radios mandatory must have spotter in designated area during races and monitor race control.

**38.2** Side window and door area must remain open other than window nets and small naca duct fitting not to exceed 12" inches.

### **39. PROTEST**

**39.1** ALL PROTESTS must be filed no later than 10 minutes after display of checkered flag for that event.

**39.2** ALL VISUAL PROTESTS must be filed before the start of the event prior to yours. NO EXCEPTIONS.

**39.3** When protested and found illegal, you will lose all points and monies for that night and be fined \$50. If you admit to being wrong you will lose all points and monies for that night and will not be fined.

**39.4** All 5/8 mile divisions: \$2000 to look at everything. \$1500 top half only, this includes carb, intake, heads, cam, bore and stroke. Speedway keeps 30%, win or lose. Once protest is filed it cannot be withdrawn.

**For all rule & technical questions contact:  
Ricky Brooks @850-324-6821 or rickybrooks5@aol.com**