

JEFFERSON SPEEDWAY

2018 RULE BOOK

2018 is Jefferson Speedway's 67th year of operation
W8139 US HIGHWAY 18 CAMBRIDGE, WISCONSIN 53523
LOCATED HALFWAY BETWEEN CAMBRIDGE & JEFFERSON ON HWY. 18,
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GENERAL RULE STATEMENT: The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all Jefferson Speedway events, and by participating in these events, all Jefferson Speedway drivers are deemed to have complied with these rules. No express or implied warranty of safety shall result from publication of or compliance with these rules and/or regulations. They are intended as a guide for the conduct of the sport and are in NO WAY A GUARANTEE against injury or death to participants, spectators or others.

NOTICE TO ALL COMPETITORS: The management and staff of Jefferson Speedway reserves the right to experiment with engines and other components not within the current rules in an effort to reduce the cost of racing in the future.

MANAGEMENT AND STAFF OF JEFFERSON SPEEDWAY RESERVE THE RIGHT TO ADJUST, ALTER OR DELETE ANY RULE IN THE INTEREST OF MAINTAINING EQUITY IN COMPETITION.

E.I.R.I. Continuous developments in racing may necessitate change that we cannot anticipate at the time the rules are formulated. Hence, we may, if necessary, update, modify and add to or delete rules. NASCAR's, "Except in Rare Instances" rule always applies.

Management and staff of Jefferson Speedway reserve the right to suspend and fine any driver, team member, or car owner for violation of track rules, policies, or procedures. All modifications from stock must be allowed by the rulebook or be expressly approved by the tech staff to be legal. Merely being overlooked during the inspection procedure does not imply legality.

Management has right to confiscate any item that is in violation of the rules of competition or the intent thereof.

SUCH PENALTIES ARE AT THE SOLE DISCRETION OF MANAGEMENT.

All competitors by entering any event consent to the use of his name, pictures of himself and car for publicity and promotional purposes both before and after the event. Competitors relinquish any rights to photographs taken on Jefferson Speedway grounds.

SAFETY, APPEARANCE, & GENERAL RULES FOR ALL CLASSES

SEATS- Approved aluminum driver's seat required. Seat must be fastened to frame/roll cage and located so that the centerline of the seat is at least 18" from driver's door bars. Properly installed headrest support required. Rib rest must remain flexible. Shoulder supports on right and left sides of seat and head support on right are required.

SAFETY BELTS--Minimum 3-inch wide lap belt, 3-inch wide shoulder harness and submarine (crotch) strap required. Belts must be anchored to roll cage or frame. Belts anchorings must swivel. Grade "5" bolts and hardware required. Shoulder harness must not be anchored lower than 2-inches below drivers shoulder height. 6-point belts (double crotch strap) are recommended.

DRIVING COMPARTMENT-- Driver's compartment must be completely sealed off from engine compartment, exhaust system, fuel container and must be constructed to allow access to driver from either right or left side by emergency personnel. Padding required around driver including steering post. Securely mounted fully charged fire extinguisher with visible dial type gauge required. Ribbon or mesh type window net with seat belt buckle release required. Window net must be permanently mounted to driver's door bars with buckle toward front roll cage upright and near roof. Clearly labeled push-pull or toggle type kill switch accessible from either side of car required. No suspension components including stabilizer bar can be adjustable from the driving compartment.

RACECEIVERS—All cars are required to have an operating RACECEIVER or two way radio (if permitted in class) at all times.

DRIVER'S ATTIRE- Complete approved fire retardant driving suit and gloves required. Eye protection and an approved helmet required. Head and Neck restraints, fireproof shoes, and fire systems recommended.

FLUIDS-- No antifreeze/coolant allowed \$50 fine if spilled. Fine will double per occurrence. All drain plugs must be safety wired.

TIRE CONDITIONING-Chemical treatment of tires (softening) not permitted. Penalty options are under review.

CARBON FIBER, MAGNESIUM, OR TITANIUM COMPONENTS – No carbon fiber, magnesium, or titanium components are allowed unless specifically designated as legal.

TRANSPONDER—An AMB automotive (not go-cart) transponder required in all classes. Rental units will be available.

APPEARANCE--A professional appearing paint job in an attractive color required. All lettering must be professional and in good taste. Numbers at least 18-inches high required on both doors. Six inch high numbers in top right corner of windshield required to assist restart alignments. Numbers 18-inches high should be on the roof readable from the right side. All forward side windows must remain open. Rear side windows can be covered with clear Lexan with no more than 50% of the area used for decals. All rear windows must allow trailing drivers to see traffic ahead. No reflective or prismatic foil numbers allowed. All dark colored cars must have ample light colored lettering or numbers to improve visibility. Poorly painted, poorly visible, or poorly lettered cars will be fined \$50 per race until corrected. 1" square rub rails allowed, mounting must be within 3" of ends & ends must be tapered and capped. Headlight areas must be tinned over and finished out. Attractive grill areas required. No profanity/offensive lettering allowed.

EXHAUST SYSTEMS--Effective mufflers are required on all cars. Any car producing over 100 decibels as measured from the 8th row of the front stretch bleachers will be required to fix the problem. **Right side exhaust permitted on visiting cars (max two times) with 25# weight penalty.** No car will be allowed to compete if expelling flame or backfiring. See individual class rules for any additional requirements. **No car will be allowed to compete if over 103 decibels.**

DIGITAL GAGES--No digital gages. No data loggers allowed.

TIRE AIR PRESSURE REGULATORS—No tire air pressure regulators allowed in any class including any type of bleeder.

AERO DEVICES--No Aero devices such as skirts, wings, or valences permitted see the individual division's body rules for any exceptions

RADIATOR OVERFLOW--Radiator overflow bottle under hood required, one quart size minimum.

DYNAMOMETER TEST-- the Tech Staff can require any engine to be dynometered to determine its compatibility with the intent of the rules.

FUEL—No fuel with more than 10% Ethanol allowed. No Methanol allowed.

TIRE TESTING—any tire in any class can be impounded for testing at any time. All winnings will be impounded until testing procedures are completed and results are confirmed. If tire is found legal, winnings will be released and tire returned (or compensated for if ruined). If tire fails test, winnings are confiscated and violators must pay the cost of the test before returning to competition.

SHOCK AND SPRING TESTING—any shock or spring in any class can be impounded for testing at any time. All winnings will be impounded until testing procedures are completed and results are confirmed. If shock or spring is found legal, winnings will be released and shock or spring returned (or compensated for if ruined). If shock or spring fails test, winnings are confiscated and violators must pay the cost of the test before returning to competition.

ILLEGAL EQUIPMENT—all illegal equipment is subject to confiscation and destruction at the discretion of management.

TIRE ENFORCEMENT PROCEDURES FOR LATE MODEL AND SPORTSMAN

Qualifying: All tires will be checked for maximum tread depth (5/32) and wear (feather) prior to Qualifying. Any car failing to meet these requirements will be allowed to return to their pit stall to change tire/tires and will forfeit 1-lap of qualifying. Tires will be checked for softness upon completion of the qualifying run. Any car having a tire that tests softer than the established number, is disqualified, the illegal tire confiscated, and will be required to compete in the Consoy or Last Chance event.

Feature: All tires will be checked for maximum tread depth and wear (feather) during line-up. Any car failing to meet these requirements will be allowed to return to their pit stall to change tire/tires and will start the race at the rear. Tires will be checked for softness upon completion of the feature. Any car having a tire that test's softer than the established number, is disqualified and the illegal tire confiscated.

Tire Bank: All Late Model and Sportsman competitors will establish a tire bank of up to six tires prior to their first night of racing. Each competitor will be allowed to add one tire to his bank for each completed night of racing. Full tire bank procedures will be posted prior to the first tire sale day. Only tires purchased in **2017 or 2018** will be allowed in bank.

2018 JEFFERSON SPEEDWAY LATE MODEL RULES

CAR ELIGIBILITY --2007 and newer North American made cars with 102-inch wheelbase or greater. No convertibles.

WHEELBASE & TREAD WIDTH -- Minimum wheelbase 104", one inch tolerance allowed. Maximum tread width 65", zero tolerance allowed, measured center to center of tires at spindle height (front and rear). All measurements made with the frame height set at 4".

CHASSIS --Tube or stock stub allowed. Frame rails must be a minimum of 2-inch by 3-inch .125 wall tubing. Full perimeter type chassis recommended. All chassis must have driver's foot protection bar (Martin bar). There is no ground clearance rule. Any dragging, scraping, or sparking will result in a black flag.

ROLL CAGE --All roll cage tubing must be at least 1 3/4"-.090" wall or equivalent. At least four evenly spaced horizontal bars required in driver's door and three in right side door. X-configuration allowed on right side and counts as one bar. All door bars must be mounted to the frame rails and the main roll cage uprights. Door bars must be connected with a minimum of two equally spaced vertical studs. Door bars must be on top of or outside of the frame rail. Left side door bar deflector plates of at least 1/8" steel required. Diagonal bar in top hoop required in all cars. Floor pan under driver must be heavy-gauge steel. Main roll hoop must be behind driver.

WEIGHT—Base weight before adjustments: Ford/Chevy concept motors-2,850#, non-updated crate motors deduct 100#, updated crate motors deduct 50#. **LS 5.3L SPEC ENGINE 2900#.** Add 100# for lightweight (less than 42#) crankshaft. **Deduct 50# for spool differential. Add 25# for right side exhaust (may be used only 2 times during season).** Ford 302 block engines with 4 inch set back add 25#. Chrysler products over 362 cid add 25#. **All non crate engines equipped with a MSD 6ALN ignition box and rev-limited to 7400 rpm deduct 25#.** Minimum weight--49% front axle and 42% right side these percentages apply at all times. All weights include driver in driver's position. All weights are minimums without any fuel allowance (except for races longer than 50 laps). Ballast must lead or steel and be painted white with car number.

ENGINE LOCATION--GM concept engines must be located so that the center of the furthest forward spark plug is no more than 2-inches behind the front axle centerline. LS motors engines must be located so that the center of the furthest forward spark plug is no more than 3 1/2-inches behind the front axle centerline. Ford and Chrysler allowed 4-inch engine set back (see weight rule). Minimum crankshaft height is 10". All engine location measurements will be made with the frame height set at 4".

ENGINE--Engine must be of same manufacturer as body. Maximum of two valves per cylinder. Minimum valve stem diameter 5/16 inch. Stock or stock replacement cast iron block and heads required. No aluminum blocks or heads. Maximum displacement 362cid (Chrysler products 373cid). All engines must meet the following specifications regardless of manufacturer: Stock or stock replacement cast iron unaltered heads with factory valve angles required. Bowtie numbers 14011058, 10134392, (casting # P/N 14011034), 12480034 and World Products Sportsman II numbers 011150, 011250 allowed. Ford 351N and 352N heads, World Product Windsor Sr. 053040 and Chrysler 5249769, 4529446 heads allowed. On a trial basis, Dart Iron Eagle #10110010-10220010 allowed. Gasket matching not allowed. Maximum 2.02-inch intake and 1.6-inch exhaust valves required. Flat top pistons required. A minimum of zero deck height required. Maximum 10.8 to one compression ratio. Magnetic steel connecting rods only. Honda journal rods not permitted. A 3/4" NPT inspection hole in oil pan required. Inspection hole must be located in line with second or third rod journal of crankshaft, on either side of pan and above sump area (oil level). Hole in windage tray in line with inspection hole required. No Vortec, Iron Eagle, or 18-degree heads (on GM products) allowed. Valve spring retainers are the only titanium parts allowed. No radius edge lifters allowed, lifters must be able to rotate in their bores. No roller or mushroom cam/lifters. Maximum lift at valve (measured at retainer) .600". OEM style-stud mounted rocker arms (no shaft style) required. Operating starter required. Stock type ignition systems required. Firing order may not be altered. Ignition system may not be computerized, programmable or have memory circuits. OEM type, mechanical fuel pump, in original location required. No dry-sump or vacuum oil systems allowed. Oil pan may not be lower than bottom of cross member. Single stage, external oil pumps allowed on Ford engines.

CRATE ENGINES--GM Crate motor (P/N 88959604 or 19318604) allowed with Holly 650 carburetor (P/N 80541-1) GM specifications and inspection procedures will be followed, see supplemental technical advisories. Specific updates permitted: 1.6 rocker arms, small harmonic balancer, and carb spacer. Maximum compression 9.6: 1. MSD with rev-control required, mounted on right side of dash. Maximum 6700 rpm chip required. Weight adjustments may be made to retain competitive balance.

LS 5.3L SPEC ENGINE-- All LS 5.3 engines must have #20 of weight added to each side of the block using the stock motor mount webbing. **All LS 5.3 spec engines must be rev-limited to 7400 rpm and equipped with a MSD 6ALN ignition box.** Weight adjustments may be made to retain competitive balance. Engine subject to same inspection procedures as other engines.

CRANKSHAFT--Production type steel crankshaft with normal configuration counter weights required. Crankshaft and required rod journal must be visible from inspection plug. See weight rule.

CARBURETOR--One Holley 4412 or Dorton 003-0 required. No Holley Ultra XP allowed. Carburetor rework guidelines the body of the carb may not be altered, no polishing, coating, grinding, or drilling of holes allowed. Gasket surfaces may be machined for improved sealing. Choke may be removed but all screw holes must be permanently sealed. Choke horn may not be removed. Boosters may not be changed including no additional holes. Booster's height, size, and shape must remain standard and unaltered. Venturi area must not be altered. Casting ring must not be removed. Base plate must not be altered in shape or size. Butterflies must not be thinned or tapered. Screw ends may be cut even with shafts but screw heads must remain standard size. Throttle shafts must remain standard and not be thinned or cut in any manner. Metering block may be plugged, no additional holes allowed, and must remain stock appearing for that carb. No aftermarket metering blocks allowed. Any attempt to pull outside air except straight down through the venture is not permitted. Jets may be changed, no dial-a-jet devices allowed. No addition of any material, such as epoxy, may be added to carb or parts except seal external screw holes. Epoxy allowed on boosters of 4412-2bbl at main body only. Carb adapter 1 5/8" max thickness w/gaskets, must retain original orientation, be a one piece unit, and not protrude into the plenum of the intake manifold. Double return springs required. Cowl inlet only. Air cleaner required.

INTAKE & EXHAUST MANIFOLDS--Unaltered aluminum intake (Edelbrock Victor Jr. #2975(GM), #2915& 2920 (Mopar), #2980. #2981 & #2921(Ford) or stock cast iron required on all engines. Plenum and port configuration must remain as produced. No spacer/adaptor plates between intake and heads allowed. Stock cast iron exhaust manifolds or aftermarket exhaust headers allowed.

EXHAUST—Tri-Y and merge collectors not allowed. No stingers, inserts, cones, savaging or any other devices allowed in the header collector. Max MSRP of \$650 on all headers. No one of a kind or homemade headers allowed. **All cars must be under allowed 100-decibel limit measured from 8th row of bleachers. All exhaust must exit behind driver. An effective (Howe or Flowmaster) muffler required. Exhaust must exit before rear end and be pointed down.. No car will be allowed to compete if over 103 decibels.**

SUSPENSION-- Conventionally mounted 5-inch springs or coil over type suspensions allowed. Steel or aluminum bodied, non-adjustable shocks only. Maximum retail price \$200. One unit per wheel. Manufacturer's components for that model shock must be used. Post race disassembly responsibility of team. No bump-stops/rubbers, compression-limiting or coil bind set-ups allowed. Rear suspension must be solidly mounted (Heim Joints only-no rubber bushings). No lift bar, fifth coil, spring-loaded/hydraulic suspension device, or rear stabilizer bars allowed. One conventional (single coil) spring rubber per spring allowed. Springs must be magnetic steel, **with a minimum 2.5" diameter, have a minimum of 8" height, all rungs must be the same diameter,** and have MSRP under \$100. No coil over eliminators or sliders allowed. All shocks must have 2 inches of positive and negative travel. KONI series 30 (adjustable, non -rebuildable), mandatory 7" on front and 9" on the rear (without bump stop) will be allowed with prior approval for testing purposes.

SPINDLES & HUBS-- Steel spindle required. Aluminum steering arm and aluminum ball joint mounts allowed. Passenger car, aftermarket, or wide five, **non oil filled hubs** required. Max. MSRP \$325. Five, 5/8" solid steel studs and 1" lug nuts required at all times.

STEERING--Rack and pinion or steering box with center link style. Quick release steering wheel required. Steering shaft must incorporate a minimum 2 U-joints and deflect force away from driver. No electric power steering units.

CLUTCH, TRANSMISSION & DRIVESHAFT--Stock transmissions mounted directly behind engine with operating reverse gear and full counter shaft required. Automatic transmissions with or without torque converter permitted. Performance grade stock or racing clutch with a minimum diameter 5½", two or three disk clutch allowed. No straight cut gears allowed and counter gear must be driven by input shaft. No carbon clutches allowed. A scatter shield or safety bell housing required when stock clutch is used. Hole in bell housing in line with flywheel required, to turn crankshaft during compression test. Minimum diameter 2½" steel or aluminum drive-shaft required. No energy absorbing or carbon fiber drive-shafts allowed. Drive shaft must be painted a bright reflective color. Safety hoop required on front half of drive shaft. Driver must be protected from drive shaft.

BRAKES--Four-wheel brakes required at all times. Single, dual or four piston (steel or aluminum) calipers allowed. Maximum diameter 12¼" rotors, no drilling allowed (except stock replacement). No floating or self centering rotors, ABS units or brake recirculator systems. Only one bias adjuster allowed. Maximum MSRP on any brake caliper \$190.00 No thermal lock pistons. Electric brake fans allowed.

TOW HOOKS--Tow hooks on front and rear required. ¼" cable has proved inadequate.

RADIATOR--Metal only, mounted in front of engine between frame horns. Stock type water pump in stock location required. Fan protection and overflow tank located in engine compartment required.

REAR END--Stock or rear spur gear type quick-change units with steel tubes permitted. No mini type (8.5" or less) quick change. No open tube or cambered (1/2 degree tolerance) rear ends. Drain plugs must be safety wired. One-piece straight spline drive plates only. Magnetic steel axles required (**see weight rule**).

FUEL & FUEL CELL--Fuel cell complete with 11-gauge or heavier container, interior bladder, foam baffle and rollover valve, located behind rear end required. Mounting must use 1" square tubing. Fuel cell must be mounted in trunk area, as far forward as possible (at least 4 inches from the rear bumper and ASA bar). ASA bar must extend below bumper and be triangulated back to main frame. Bottom rear of fuel cell must be protected from rear "SUBMARINE" type impact. Bottom of fuel cell must be at least 10 inches from the ground. Fuel filler must be accessed through deck lid. Filler spout may be extended, but not connected to body. All vents must be valved to eliminate leakage. Outlet must be on top. All fuel cells and associated protection bars will be vigorously inspected. Steel fuel lines must be properly located outside driver's compartment. Gasoline only, must meet specific gravity of manufacturer.

BATTERY--12-volt systems max. Batteries must be securely mounted ahead of rear axle, away from fuel cell and lines. All batteries in driving compartment must be in approved sealed battery box. Battery disconnect switch recommended.

BODY & APPEARANCE--Stock appearing plastic, fiberglass, or metal bodies allowed. Minimum roof height 47". Maximum deck height 34.5". All measurements made with the frame height set at 4". Minimum side window clearance 15". Maximum spoiler height 39", measured from ground. Maximum spoiler length 5". Maximum width 60". No wings or skirts allowed. No air scoops or holes in hood allowed. No part of the body including nose or rocker panels may be less than 3" off ground at any time. Painted filler panels required. Front and rear bumpers covers must appear stock and enhance the appearance of the car. All windows must be of Lexan. Body must be within 2" from outside of tires. No under body air deflectors or panning allowed. **Gen 6 Bodies are not permitted.**

WHEELS & TIRES--Aftermarket made for racing, steel wheels required, 15"x 8" inch maximum, minimum weight 14#. No pressure relief or air bleeds allowed. American Racer AR-870-8-inch tire is the only legal tire and will be sold at the track. For Qualifying & Feature events all tires must have no more than 5/32" of tread and show wear (approx. 20 laps on right side tires). A tire registration and tire bank will be established. Teams will register 6 tires in their bank at first race night and add one tire to bank for each race night they complete thereafter.

SAFETY BELTS/HELMET-- Snell SA 2010 helmet or newer required. Belts must be dated 2014 or newer.

ILLEGAL EQUIPMENT--Super chargers; turbo charger; nitrous or other injection systems; pressure or electric fuel systems; aluminum blocks (LS excepted); dry-sump systems; floating brakes; aftermarket brake recirculators; external oil pumps (see exc.); multi-coil or crank fired ignition; on board data gathering or timing devices, ABS units, traction control devices, oil filled hubs, mini quick change rear ends. All illegal parts subject to confiscation.

RADIOS--All radio frequencies must be registered with the officials, failure to do so may result in disqualification.

CRANKSHAFT INSPECTION PROCEDURES--All car owners will be required to declare the weight of their crankshaft prior to racing. Those claiming their crankshaft to be over #42 will be required to allow as much inspection as is deemed necessary by the management and tech staff confirm this declaration (including the removal and weighing of the crankshaft).

TEAR DOWN CLAIM--For a fee of \$1000 any Late Model driver in competition that night may request to have the head, intake, exhaust, and carburetor of one other competitor be removed for inspection. If found legal, \$800 is awarded to the one inspected with \$200 retained by the officials. If illegal, the fee is returned to the protester and the violator forfeits all money and points won for that night. **Officials can require valve covers, distributor, intake, carburetor, and heads be removed and inspected for compliance. If components are found to be illegal they will be confiscated and destroyed.**

602 CRATE MOTORED LATE MODEL PROGRAM – 2018 will be a year of research and development for a late model car using the Chevrolet 602 crate motor and the Brinn transmission. Weight and other details for this car are yet to be determined.

2018 JEFFERSON SPEEDWAY SPORTSMAN RULES

CAR ELIGIBILITY--Any 1957 or newer American-made non-convertible passenger car with wheelbase over 108-inches (Ford and Chrysler over 104-inches) allowed. El Camino, Ranchero bodies allowed.

WHEELBASE AND TREAD WIDTH--Wheelbase must be within 1-inch of stock. Maximum tread width 63-inches (64-inches for Ford or Chrysler front stub), measured center to center of tires at spindle height (front and rear).

GROUND CLEARANCE--Minimum ground clearance 4 $\frac{3}{4}$ " at any point including spoilers, scoops, and mufflers, except front cross-member, which is 2 $\frac{3}{4}$ " (with driver).

CHASSIS-- GM chassis must retain original wheelbase. Ford/Chrysler may use GM Metric frame. Complete stock steel frame or unit-body must be retained to a point 6" behind center of rear axle. Replacement with square tubing allowed rear of that point. Front stub and rest of frame must match. Minimum ground clearance 4 $\frac{3}{4}$ " except cross-member which is 2 $\frac{3}{4}$ "(with driver).

ROLL CAGE--All cars must have a well constructed, properly welded and gusseted 6 point roll cage made of minimum 1 $\frac{3}{4}$ " .090 wall tubing or equivalent. Roll cage must have four uprights properly welded to frame. Right side of roll cage may not be located inboard more than right rails of front and rear stubs. Main roll hoop must be behind driver and be reinforced with a full X or diagonal bar configuration. Cage must be reinforced from left to right with bars under the dash, along floorboards, and behind driver in main roll hoop. At least two bars must extend from main roll cage rearward to frame kick-up or beyond. A minimum of four equally spaced horizontal bars required in driver's door, three in passenger side door. Door bars must be connected with a minimum of two equally spaced vertical studs. Two angular bars must connect bottom door bar to frame rail. All welds in cage and door structure must be gusseted. Driver's foot protection bar required. Left side door bar deflector plates of at least 1/8" steel required. Front hoop must connect to front roll cage uprights. Unit-body roll cage construction: contact competition director for guidelines.

INTERIOR--Steel firewall and floor pan required. Passenger side interior can be tinned over from top of drive shaft tunnel to 12" below passenger window. No radios allowed.

SPINDLES, HUBS, STEERING--Stock unaltered passenger car spindles, hubs, and steering units required. Coleman steel hubs allowed. No lowered spindles. Heim joints allowed on outer tie rod ends. Fabricated center links allowed. Steering column must use 2 U-joints.

SUSPENSION--Any stock appearing, **Non-Progressive**, steel spring that fits in original mount in original position allowed. One steel non-adjustable, non-rebuildable shock, with a welded bearing (on at least one end), with a maximum MSRP \$85, allowed per wheel. Spring spacers, adjustable spring spacer units allowed where shock mounts through spring (front). **One** screw type (screw jack) adjuster per spring allowed front and rear. Rear spring perch and rear upper shock mounts may be fabricated but must remain in stock location. Spring buckets may protrude through floor pan. Rear control arms must be stock length for that year and model chassis and remain in stock location. All other components must remain stock and in stock location, except where otherwise stated. Lower A-frames may have bushings replaced with steel insert type. Rear Control link rubber bushings may be replaced with non-metallic stock replacement parts. Tubular upper A-frames with bolt-in ball joint allowed. No mono ball, heim joints, or clevis' permitted on suspension components. One stock appearing (non spline type) passenger car front stabilizer (sway) bar mounted in stock position on frame allowed. Frame mounted stabilizer (sway) bar adjusters allowed. 1" shock extenders in front and 2" in rear allowed. Screw-in ball joints allowed. No lift bars, traction devices, or rebound limiting devices (other than shocks) allowed.

MID SIZE GM METRIC CHASSIS--Lower right A-frame may be 1" longer than stock. Coleman steel hubs or full size GM spindles allowed. Steering center link modifications (to improve bump-steer) allowed. Any stock production rear end allowed, provided that lower control arm/shock mounts remain in the stock position for the chassis. Aftermarket or S-10 axle required on right side of metric rear ends.

BRAKES--Four-wheel brakes required at all times. Floor mounted pedals allowed. The Howe stock replacement caliper is the only non-OEM brake caliper allowed. No "made for racing" components (other than brake pads) allowed. Directional vane rotors allowed. Maximum rotor diameter 11 3/4" maximum rotor width 1 1/4". Maximum MSRP \$105. One OEM brake bias adjuster allowed. Wheel fans and electric fans allowed. Rear disk brakes (no aluminum components) allowed. One master cylinder only.

FUEL & FUEL CONTAINER--Fuel cell required. Fuel cell must be located behind rear end, between frame rails as far from rear bumper as possible. If trunk floor is removed, it is required to install two 2" square tube cross members to the rear frame rails: one in front of and one behind the fuel cell. Mounting must use 1" square tubing. Minimum 11-gauge container around fuel cell required. Bottom of fuel cell must be at least 10 inches from ground. ASA bar required and must extend below bumper and be triangulated back to main frame. All vents must be valved. Filler tube extensions not allowed. Inlet cannot be on right side of cell. Outlet must be on top. All fuel cells and associated protection bars will be vigorously inspected. Steel fuel lines must be located outside driver's compartment. Gasoline only.

WEIGHT--Minimum total weight is 3100 # including driver, 52% front axle, and 42% right side. Add 50 lbs for crankshafts weighing less than 44 lbs. All weights must be properly anchored above bottom of frame rail, outside driver's compartment and painted white and lettered with car number.

WHEELS & TIRES--Aftermarket made for racing, steel wheels, 8-inch maximum width required. No bleeders allowed. American Racer AR-870- 8-inch tire is the only legal tire and will be available at the track. For qualifying and feature events all tires must have no more than 5/32" of tread and show wear (approximately 20-30 laps on right side tires). A tire registration and tire bank will be established. Teams will register 6 tires in their bank on the first race and add one tire to their bank for each completed race night thereafter.

RADIATOR--Any metal radiator that does not alter the exterior appearance of car allowed. Fan protection (20 gauge minimum thickness) required. Overflow tank located under hood required.

BATTERY--Batteries must be securely mounted ahead of rear axle and away from fuel container and lines. All batteries in driving compartment must be in an approved sealed battery box. Maximum 12 volt system.

DRIVESHAFT-- Minimum diameter 2 $\frac{1}{2}$ " steel drive shaft required. Drive shaft must be painted a bright reflective color. Safety hoop required on front half of drive shaft. Driver must be protected from drive shaft entering into driving compartment.

ENGINE LOCATION--GM engines: located so that center of the furthest forward spark plug is in line with or ahead of the upper ball joint's centerline, all others allowed a 2-inch set back. Minimum crankshaft centerline height 10 ½" (front and back). Max offset (right to left) 3".

ENGINE--Engine must be of same manufacturer as chassis and body. Maximum of two valves per cylinder. No aluminum blocks or heads. Maximum displacement 362cid (Chrysler products 373cid). All engines must meet following specifications regardless of manufacturer: Stock or stock replacement cast iron unaltered heads (no porting, polishing, acid dipping, or gasket matching allowed) required. The only stock replacement heads allowed are World Products SR 1052 #4266B and #4267B, PBM Thunder head 167270 with 170cc intake runner, or Dart Iron Eagle SS #10024266 & 10024267, straight plug with 165cc intake runner. Maximum 2.02-inch intake and 1.6-inch exhaust valves required. Valve spring retainers are the only titanium parts allowed. Flat top pistons required. A minimum of zero deck height required. Maximum 10.8 to one compression ratio. Magnetic steel connecting rods only. Honda journal rods not permitted. No Bowtie, Vortec or 18-degree heads allowed on GM products. Production type steel crankshaft with normal configuration counter weights required. Minimum crankshaft weight 44lbs. A ¾"NPT inspection hole in oil pan required. Inspection hole must be located in line with second or third rod journal of crankshaft, on either side of pan and above oil level. Hole in windage tray in line with inspection hole required. OEM mechanical fuel pump, in stock location, required. No electric water pumps allowed.

CAMSHAFT & IGNITION--Hydraulic cam/lifters only. Lifters must pass minimum 100/1000 leak-down test. Absolute maximum lift at valve: GM-.490 inch, Ford/Mopar-.520 inch. Roller tip rocker arms allowed, but must retain original pivot type (ball & socket). No solid lifter or roller cams allowed. Stock type (HEI) ignition components only. Firing order may not be altered. No MSD boxes, dual-point distributors, computer controlled or crank fired ignition systems allowed.

CARBURETOR--Stock unaltered 500 CFM Stock Holley 4412 2 bbl. or Dorton 003-0, or 1 3/8" Rochester allowed on all cars. No alterations except removal of choke "Butterfly" allowed. 1 1/2" maximum adapter/spacer plate (gasket included) allowed. Carb adapter plate may not be tapered, beveled or grooved. Double return springs and air cleaner required to act as flame arrestor. No air induction boxes or ram air units allowed. Steel or steel braided fuel lines required, metal fuel filter required.

INTAKE & EXHAUST MANIFOLDS--Completely stock passenger car 2-bbl. cast iron intake or Edelbrock Performer-2101 or RPM-7101 intake manifold required. No grinding, polishing or altering allowed. No Bow-Tie manifolds. Completely stock cast iron exhaust manifolds required. No grinding, polishing or altering allowed. Center dump and log style manifolds allowed. Max exhaust manifold inside diameter 2-1/16-inches. No cast iron header style exhaust manifolds allowed.

REAR END--Rear end must be a stock passenger car unit, may be open, or locked by welding spider gears or use of spool only. Ford 9" rear end allowed in any make car provided the lower control arms and shock mounts remain in the stock position for that chassis. No limited slip, Detroit lockers or torque sensing differentials allowed. A ¾" inspection plug required in rear cover located above oil level and be wire tied. Floating rear ends with steel hubs, straight spline drive plates, and solid axles allowed. No cambered rear ends allowed.

CRATE ENGINES--GM Crate motor (P/N 88959602 or 19318602) allowed with Holly 650 carburetor (P/N 80541-1). GM specifications and inspection procedures will be followed. Crate engines are allowed to run a non stepped, non 180degree, header with a max 1 5/8" diameter and max 3" collector, maximum MSRP \$250. All crate motors must use the MSD Soft Touch Rev Control system with the 6200 rpm chip. Crate motor cars have a base weight of #3100. Inspection plug required, call tech staff for installation and rebuild/repair regulations.

TRANSMISSION--Stock automatic transmission with operating 11-inch minimum diameter torque converter allowed. Torque converter post-race inspection will occasionally be required. Option 1; install drain plug in torque converter. Option 2; remove torque converter for detailed inspection. All forward and reverse gears must operate. Transmission overflow bottle required, No rubber transmission lines, transmission cooler not allowed in driver compartment. A stock manual three or four speed steel OEM or M21 transmission allowed. All gears must operate. No straight cut gears, gun drilled main shafts, or lightening of or removing of gears or body allowed. Must use stock or stock replacement all steel pressure plate and clutch disk (minimum weight 15.5 lbs) and steel or cast iron flywheel (minimum weight 15.5 lbs.) Clutch disc must be minimum 10 inch diameter with stock full fiber disk. All manual transmissions must run a steel bell housing or a scatter shield constructed of 1/8 inch steel covering the top 180 degrees of the clutch.

EXHAUST SYSTEM--Maximum diameter 2½" before collector and/or muffler, 4½" maximum diameter behind muffler. Exhaust must exit left or rear (not right side) and behind driver. Effective mufflers required. Collector or muffler must not be located forward of transmission. 100-decibel limit measured from 8th row of bleachers. No car expelling flame, smoke or backfiring allowed.

FORD AND CHRYSLER EXCEPTIONS--Ford and Chrysler will be permitted some variation to improve competitiveness. Such variation requires prior approval by director of competition. Weight adjustments may be made to retain competitive balance.

BODY AND APPEARANCE--Body must be of same make as engine and have an OEM wheelbase over 106". All variances from this rule must have prior approval from the Director of Competition and management. Body can be lengthen or shortened no more than 4 inches from OEM measurement. All bodies must remain stock appearing with complete fenders, quarter panels, doors, roof, hood and trunk lid. Stock steel roof with A, B, & C posts required. Body must be mounted symmetrically on chassis. Five Star Fiberglass Metric Monte Carlo roof allowed. No truck bodies allowed (El Camino & Ranchero excepted). Stock steel or professionally built metal bodies required (See Plastic Body Exception). Bodies cannot be shortened, chopped or channeled. All doors must be welded shut. Stock hood with reinforcements removed or fiberglass hood required. Hood latch must be removed. No multi-plane spoilers. Maximum spoiler length 5". Maximum spoiler width 60". Spoiler may not extend outside body by more than 1-inch. No wings or skirts allowed. No air scoops or holes in hood allowed. Filler panels painted with reflective colors required. Front and rear bumpers must appear stock. Bumper ends must be capped or connect to body. Professionally appearing and attractive grill/radiator opening required. All aftermarket nose pieces must match make (GM on GM, Ford on Ford) of body. Stock or Lexan windshields required, all other windows (if used) must be of Lexan. Sunroofs must be closed in with steel. Body must be within 2" from outside of tires.

VINTAGE BODIES--Management reserves right to grant additional latitude to cars running vintage or retro body styles.

TOW HOOKS--Tow hooks on front and rear required. ¼" cable has proved inadequate.

PLASTIC BODIES-The AR Body-PN 115015 A thru M may be used on 108 to 112 inch wheel base chassis. The AR 116 inch Camaro body is approved. All AR bodies must be used in their entirety and mounted to manufactures dimensions. No mixing of plastic body panels with stock or home-made metal body panels. No NGB or S2 bodies allowed without prior approval of the tech staff.

TEAR DOWN CLAIM--For a fee of \$500 any Sportsman class driver may request to have the head, intake, exhaust, and carburetor removed for inspection. If found legal, \$300 is awarded to the one inspected with \$200 retained by the officials. If illegal, the fee is returned to the protester and the violator forfeits all money and points won that night. . **Officials can require valve covers, distributor, intake, carburetor, and heads be removed and inspected for compliance. If components are found to be illegal they will be confiscated and destroyed.**

SAFETY BELTS & HELMET-- Belts must be dated **2014** or newer. Helmet must be Snell SA 2010 or newer.

2018 JEFFERSON SPEEDWAY INTERNATIONAL CLASS RULES

CAR ELIGIBILITY--1985 to 2006, front wheel drive non-convertible foreign or domestic compact car with a 4-cylinder engine, and meeting the wheelbase requirements. All reduced production/special application/performance cars are subject to additional requirements and/or limitations to ensure competitive equity. It is the responsibility of the driver/owner to complete a specification sheet during initial inspection. Chassis (VIN #, wheelbase, control arm lengths, etc) and engine (engine #, bore-stroke, EFI info, camshaft, etc) specs required.

WHEELBASE--Minimum 93", Maximum 106". Wheelbase must be within 1/2-inch of stock.

CHASSIS/INTERIOR--Complete bumper-to-bumper steel unit-body must be retained. Full width original firewall, floor-pan and trunk floor required. Rear firewall must be added to isolate from fuel cell. Stress points may be reinforced. No radios allowed.

ROLL CAGE--All cars must have a well-constructed, properly welded and gusseted 6-point full width roll cage made of 1 3/4" .090 wall tubing or equivalent. Main roll hoop must be behind driver and be reinforced with a full x-bar configuration. Roll cage must be properly anchored to rocker box or floor with sandwich plates under each up-right. Cage must be reinforced from left to right with bars under the dash, along floorboards, and behind driver in main roll hoop. At least two bars must extend from main roll cage rearward to frame kick-up or beyond. A minimum of four equally spaced horizontal bars required in driver's door, three in passenger side door. Door bars must be connected with a minimum of two equally spaced vertical studs. Two angular bars must connect bottom door bar to rocker box. All welds in cage and door structure must be gusseted. Left side door bar deflector plates of min. 1/8" steel required. Driver's foot protection required.

SUSPENSION--Any stock appearing steel spring that fits in original mounts in original position allowed. One steel non-adjustable, non-rebuildable, shock/strut in stock location per wheel. Max. \$80 MSRP of strut/shock. Spring adjusters allowed, adjustable spring spacers where shock mounts through spring, screw type where shock mounts outside spring. Coil-over threaded collars allowed on strut type suspensions. Adjustable leaf shackles allowed. Spring buckets may protrude through floor pan. Suspension parts including trailing links must remain of stock type for that make and model and year chassis. Upper A-frames and strut mounts may be altered for camber. Lower A-frames and strut rods must remain stock. One stock front and rear stabilizer bar allowed. Out of cockpit stabilizer adjusters allowed. Stock trailing links required. Home built rear lower control arms of stock length, in the stock location with heim joints allowed. Rear suspension cannot be tied down and must fully rebound.

SPINDLES & HUBS--Stock, unaltered spindles and hubs required.

STEERING--Stock, manual or power units only. No aftermarket components. Fabricated steering column must use 2 U-joints.

GROUND CLEARANCE--Minimum ground clearance 4" (with driver) for all mechanical parts and hardware, 5" for any body part.

FUEL CONTAINER--Fuel cell (8-gal. Max.), foam baffling and check valve required. Minimum 11-gauge container. Fuel container must be mounted in trunk area, as far forward as possible, a minimum of 10" above the ground and protected by a minimum 1 1/2" ASA bar. Filler tube extensions not allowed. All vents must be valved to eliminate leakage. Fuel container installation will be vigorously inspected. Steel fuel lines must be properly located outside driver's compartment.. Gasoline only.

FUEL PUMP--High quality (ASA style) internally mounted, electric fuel pump recommended. External pumps must mount to fuel cell container or bracket. Supply hose from cell to pump must be steel braided with AN type fittings. OEM or aftermarket safety switch required.

WEIGHT	Actual displacement in cubic centimeters.....	Minimum weight
	0 to 1749.....	2300 lb.
	1750 to 2049.....	2350 lb.
	2050 to 2249.....	2400 lb.
	2250 to 2400.....	2450 lb.

All Cars: Minimum front-end weight must be **57%**. Minimum right-side weight must be 45% of total.

WEIGHT ADJUSTMENTS--3 valves per cylinder, add 25#, 4 valves per cylinder add 50#. Engines with variable cam timing (VTEC), add 50#. Engines without rev limiter add 50#. All weights must be properly anchored to floor pan or weight box. Weights must not be lower than bottom of frame rail. Ballast must be painted white and lettered with car number.

DIFFERENTIAL--Differential must be stock for that make/model car. No locked differentials. All cars equipped with a limited slip or traction sensing differentials are subject to additional weight and percentage requirements.

BATTERY--Batteries must be securely mounted away from fuel container and lines. All batteries in driving compartment must be in approved sealed battery box. Maximum 12-volt battery.

SAFETY BELTS & HELMET--Belts must be dated **2014** or newer. Helmet must be Snell SA **2010** or newer.

BRAKES--Stock brake units only. Four-wheel brakes required at all times. Stock rear disk brakes allowed. Master cylinder and pedals must remain in stock location. OEM brake rotors required. No "made for racing" components allowed. Brake bias adjusters allowed, must be located outside drivers compartment. OEM anti-lock brakes (ABS) allowed. Wheel fans allowed. No blower motors allowed.

RADIATOR--Any metal radiator without altering the appearance of car allowed. Overflow tank, located in engine compartment required.

TIRES--Hoosier 790 14 or 15 inch diameter tires allowed. Street tires with an H rating or less, with a minimum tread wear rating of 400 will be allowed. Maximum MSRP is \$75, maximum width is P205, and must be either 60, 65 or 70 series profile. Tire tests will be conducted during season to determine the efficacy of any alternative tires.

WHEELS--Made for racing, 7-inch wide steel wheels with **3" or 4"** inch backspacing required on all wheels. Wheels with 3 5/8 backspacing are not allowed. Only 13", 14" or 15" diameter wheels allowed. Wheels must be the same size per axel. One-inch lug nuts required. Spacer plates allowed 1/4" maximum width. No bleeders.

ENGINE--Engine must be 4 cylinder, max displacement 2,400 cc. Engine must have been offered in that make and model automobile. Type and composition of engine must remain as produced. Block, heads, intake and all other engine components must match. Engine must be in stock position using stock motor mounts (rubber bushings may be replaced with washers). OEM block required, with up to .040 overbore allowed. Crankshaft and stroke must remain as produced. 11 to 1 compression ratio maximum. Cylinder head configuration must

remain as produced (no porting, chamber work or bead blasting , etc.). Engines produced for non-domestic markets (JDM ect.) maybe used with the prior consent of management.

SEALED MOTOR PROGRAM—beginning in 2018 an engine, stock from the manufacturer, purchased thru a designated engine supplier and delivered to a designated third party for the installation of seals will be allowed to compete. The minimum weight for these engines will be determined by their OEM performance specifications. All non domestic engines (JDM etc.) must be sealed before a team takes possession. All teams interested in this program should call Terry Tucker for further explanation.

INDUCTION-OEM as produced, electronic fuel injection (including intake manifold) for the car/engine used, required. No forced induction, ram air induction, turbo or super-charging, nitrous systems, etc. allowed.

CAMSHAFT-OEM cam drive only. Maximum cam lift measured at the valve, may be increased by 10% from production specs. This number may be adjusted for makes with limited cam shaft options. Roller rocker arms allowed on push rod style motors. Stock roller tip cam followers allowed on engines that came with them from factory

IGNITION--OEM ignition components only.

COMPUTER-All engine management controls, wiring and data port must be operating. Computer must be relocated (within wiring limits) for easy access. Reprogramming allowed.

CLUTCH & TRANSMISSION--OEM unaltered clutch required. Minimum resurfacing allowed (flywheel allowed 1 lb. reduction from stock weight) OEM manual transmission with all gears, including reverse, required. Two 1 ½” inspection holes, on opposites sides of bell housing, required for clutch inspection. Stock mounted operating starter required.

HALF SHAFT-Heavy duty replacement parts allowed.

BODY AND APPEARANCE--OEM steel roof with A, B, & C post’s required. OEM or stock replacement fenders, quarter panels, doors, hood and trunk lid required. Stock or stock appearing nosepiece required. Maximum spoiler length 5". Spoiler may not extend outside body. Side skirts must not be lower than rocker panel. No air scoops or holes in hood allowed. Filler panels painted with reflective colors required. Stock front and rear bumper covers should be used if possible. Bumper ends must connect to body. Stock or Lexan windshields required, all other windows (if used) must be of Lexan. Sunroofs must be closed in with steel. Stock appearing aluminum door skins allowed. OEM wings permitted. Removal of trunk floor allowed provided fuel cell has an approved 11 gauge container around cell and protected on all sides by minimum 1” square tubing. After market nose and tail pieces may be used provided they can be made to approximate stock appearance. No Non OEM fiberglass body panels allowed.

TOW HOOKS--Tow hooks on front and rear required. ¼” cable has proved inadequate.

EXHAUST-- Exhaust header with necessary sensors allowed. Exhaust must exit left or rear (not right side) behind driver. Effective mufflers required. 100-decibel limit measured from 8th row of bleachers. No car expelling flame, smoke, or backfiring allowed.

TEAR DOWN CLAIM--For a fee of \$750 any international class driver may request to have the head, intake, and exhaust removed for inspection. If found legal, \$500 is awarded to the one inspected with \$250 retained by the officials. If illegal, the fee is returned to the protester and the violator forfeits all money and points won for that night. Officials can require intake, injectors, computer, and heads be removed and checked for modifications. If components are found to be illegal they will be confiscated and destroyed. If found to be legal the owner will receive \$100 allowance for gaskets.

DYNAMETER TEST At the request of the Tech Staff any engine can be required to be dynometered to determine its compatibility with the intent of the rules.

2018 JEFFERSON SPEEDWAY HOBBY STOCK RULES

HOBBY STOCK RULE PACKAGE OPTIONS--In an effort to revitalize the Hobby Stock class different rule packages will be amalgamated into one unified set. These rules are subject to adjustment in the interest of compatibility.

ROAD RUNNER PACKAGE All Road Runner rule package cars must meet the minimum safety rules as spelled out below. The provisions that must be followed include those found in the general requirements for all cars, frame/roll cage, interior, gas tank, and drivers' attire. Cars using the Road Runner package may use the Rockford legal rims and tires or the 8"x15" rims and approved tires. Road Runner cars can use a stock Holley 4412 carb or any carb legal at Rockford Speedway. Maximum tread width 63 inches. Minimum weight 3400lbs, 53% nose, 45% right side. All Road Runners can adopt all or part of the Jefferson Hobby rules to improve competitiveness.

SAFETY BELTS & HELMET-- Belts must be dated **2013** or newer. Helmet must be Snell SA **2010** or newer.

CAR ELIGIBILITY--Any 1960 to 1996, American-made passenger car allowed. Minimum wheelbase of 108-inches (104-inches for Ford and Chrysler), no convertibles, T-tops, sports cars, pony cars or special manufactured cars allowed without prior approval. Unitized body cars required to cross brace driver's area and have sandwich plates at roll cage mounting points.

FRONT WHEEL DRIVE ELIGIBILITY--Front wheel drive cars produced before 1996 with V-6 EFI engines and minimum 104-inch wheelbase allowed. Full unit-body structure, including trunk floor, required. OEM electronic fuel injection system required. Fuel Cell required. Headers allowed. Minimum weight 2900 pounds. All other rules apply.

FRAME/ROLL CAGE--Frame must unaltered from front to back. Roll cage must have four uprights located in the furthest forward corners of the driver's compartment and directly behind the driver's seat. Roll cage width must be symmetrical and not narrower than frame rails. Roll cage must be constructed of 1 3/4" .090 wall tubing or equivalent. No pipe fitting's, galvanized pipe, or exhaust tubing allowed. Roll cage must be welded to the frame or the sandwich plates if unitized body. Rear main roll cage uprights must be reinforced with two bars welded to the rear frame kick-up. These bars must mount to top of frame kick-up ahead of rear axle. Two additional bars can run from these roll cage support bars back to a point on the frame at least 16 inches from the rear bumper mount. These bars may not be located within 24 inches of the main roll cage halo bar. Roll cage must include an "X" or diagonal brace behind driver. Three bars required in both the driver's and right side doors. Doors may be gutted for bar clearance. All welds must be gusseted and of good quality. Deflector plates and foot protection bar required. **One bar from each roll cage upright allowed through the rear firewall, bar must mount to frame at or before the top of the axle kick-up. Rubber body mounts (OEM or similar required).** Front hoop bars (two only) allowed from roll cage uprights through firewall to front stub and upper radiator protection bars. Front hoop may connect to front stub at a maximum of six points. Wedge (diagonal) bars allowed. Metric cars may modify forward firewall (moderately) for distributor clearance. Frame rails may be boxed in. An "X" brace under driver's compartment is permitted. Unit body cars allowed four bars from roll cage to rear sub-frame. Sub-frames must be connected with tubing.

GROUND CLEARANCE—Min. ground clearance 5 1/2" at any point (with driver), except front cross-member and mufflers which is 3 1/2".

INTERIOR--Firewall and floor pan must be stock. Firewall may be boxed to allow clearance for valve covers and distributor with engine setback. Rear firewall must be added to isolate from trunk area. No radios allowed.

SUSPENSION--Completely stock suspension components for vehicle used required, no modifications allowed, except rubber bushings may be replaced with non-metallic stock replacement parts. **Stock ball joints (stock length and width) required.** Full size spindles allowed on metric chassis. Lower control arms on metric cars may be lengthened 1". Rear stabilizer bar must be removed. Any magnetic spring over 5" in diameter allowed. **Rear springs must be over 11 inches tall in non-metric cars. Rear springs must be over 8 inches tall in metric cars. No progressive springs allowed. Straight valve shocks (compression and rebound must be equal) required. Shocks must be non-rebuildable and on-adjustable.** Stackable shims allowed on top or bottom of coil springs. Stock Steering components required. No spring separators or weight jacks allowed. Stock or SRP shocks required. Max camber is 3-inches measured at the wheel. Maximum tread width is 63 inches, 50lbs weight penalty for each inch over max. No offset rear end bushings allowed. Stock replacement center links allowed.

ENGINE--Engine must be stock for that make. All engines may be located so that center of the furthest forward spark plug is in line with or ahead of the upper ball joint's centerline. No Chevrolet 400cid engine blocks allowed. Maximum displacement 362 (373 for MOPAR) cid, maximum compression 9.3 to one. No domed pistons. No aluminum intakes or heads. Hydraulic cam/lifters only. Lifters must pass leak-down test. Maximum lift at valve: GM-.425-inch, Ford/Mopar-.465-inch. No matching, grinding, polishing of any type allowed. No after market parts, no stud girdle, no dual point distributors. OEM type, mechanical fuel pump, in original location, required. One OEM unmodified two-barrel carburetor required, maximum bore diameter 1 1/4" with pressed in style booster cone, 1 3/8" on Ford and 1 9/16" on Chrysler products. No dual feed carbs. Air cleaner and overflow tank located under hood required. The IO52 World Product stock replacement head with 171 cc intake runners are the only non OEM head allowed. Roller tip rocker arms allowed 1.52 max. A 3/4" NPT inspection hole in oil pan required. Inspection hole must be located in line with second or third rod journal of crankshaft, on either side of pan and above sump area (oil level). One stock Holley 4412 or one 1-1/4" Rochester carb required.

CRANK SHAFT--Stock appearing crankshaft required, minimum weight #48. Crankshaft must stock appearing counter-weights and may not be scalloped or gun drilled. Stock (un-altered) flanges required. Any suspect crank shaft can be removed and weighed.

DRIVE TRAIN--Stock automatic transmissions with all forward and reverse gears operating required. Stock operating 12-inch minimum diameter torque converter required. Transmission overflow bottle required. No lightweight (Vega type) torque converters allowed. No Powerglide transmissions. No rubber transmission lines allowed. Transmission cooler not allowed in driver compartment. Stock, unaltered, open rear ends required. Stock diameter steel drive shaft required. Aftermarket or S-10 right side axle required on metric cars.

INTAKE & EXHAUST MANIFOLDS--Completely stock passenger car 2-bbl. cast iron intake and exhaust manifolds required. No grinding, polishing or altering allowed. Four-barrel intake manifolds allowed only on engines that were not offered with a two-barrel manifold. 1 1/4" adapter plate allowed on cars with four-barrel manifolds. No Bow Tie manifolds. Internal heat riser crossover must remain in place. Center dump and log style manifolds allowed. Max exhaust manifold inside diameter 2 1/6 -inches. No cast iron header manifolds.

WEIGHT--Minimum total weight is 3400lb. 53% front axle, and 45% right side. All weights must be properly anchored to (and not lower than) frame rail outside driver's compartment. Ballast must be painted white and lettered with car number. All weights include driver. Management reserves the right to adjust the weight requirements as needed to preserve competitive balance.

METRIC WEIGHT RULE--Metric chassis cars, run at 3300lb, with a right side minimum of 44%.

WHEELS AND TIRES—American Racer AR-870- 8-inch and Hoosier S800 tires with maximum 4/32” tread depth allowed. Other tires must be offered to the public at no more than \$120. Tires must be stock passenger 70 or 75 series radial tires only, maximum size P235. No high performance tires allowed. Tires must be consistent, all 14” or 15” diameter. Steel wheel only, max. width 8” measured at bead, max. offset 2 inches. Aftermarket racing wheels required on right side. No wheel spacers allowed. No bleeders allowed. One-inch lug nuts required. Heavy-duty studs recommended. Management may claim any tire at any time for \$75. Minimum durometer reading is 60. Minimum UTQG rating 500.

GAS TANK--All stock tanks must be removed. 6 or 8 gallon marine or farm tractor tank allowed. Maximum 16-gallon fuel cell allowed. Gas tank must be placed as far forward in the trunk area as possible, centered right to left, and secured with solid metal straps, bolts and washers. No plumbers strap allowed. If trunk floor is removed, it is required to install two 2” square tube .125” wall cross members to the rear frame rails: one in front of and one behind the tank/cell. Mounting must use 1” square tubing, and not be lower than bottom of rear frame rails. Steel or steel braided fuel lines required. Fuel line must exit top of tank. No fuel lines in driver's compartment. Complete metal firewalls front and rear required

BRAKES--Stock brake units only. Four-wheel brakes required at all times. Master cylinder and pedals must remain in stock location. No "made for racing" components allowed. No brake blower motors allowed. One OEM brake bias adjuster (proportioning valve) located in engine compartment allowed.

BATTERY--Batteries must be securely mounted ahead of rear axle and away from fuel container and lines. All batteries in driving compartment must be in an approved sealed battery box. Maximum 12-volt system.

EXHAUST SYSTEM--Maximum diameter 2½” before collector and/or muffler, 4½” maximum diameter behind muffler. Exhaust must exit left or rear (not right side) and behind driver. Effective mufflers required. Collector or muffler must not be located forward of transmission. 100-decibel limit measured from 8th row of bleachers. No car expelling flame, smoke or backfiring allowed.

BODY AND TRIM-Body must match frame used. Complete stock appearing steel bodies with glass or Lexan windshields (with braces) required. Rear spoilers allowed, maximum spoiler length 3". Spoiler may not extend outside body. Stock, unaltered body mounts required. All doors must be welded shut. Fenders may be trimmed moderately for clearance. **Fenders may not be inclined downward more than two inches from stock.** Front & rear overhangs may be shortened maximum of 4-inches. All glass and plastic must be removed, except windshield. Hood pins must replace hood and trunk latches. Hood X reinforcement must be removed. No aftermarket nosepieces allowed. Full rocker panels required. Stock steel bumpers required front and rear, may be reinforced, and bumper ends must connect to body. Tire cutting edges must be trimmed. Limited radiator protection bars allowed. Modest use of bars on top of bumper and outside of nose piece allowed. Plastic nose and rear bumper covers allowed provided they are stock appearing for that make & model car.

TOW HOOKS--Tow hooks on front and rear required. ¼” cable has proved inadequate.

FORD AND CHRYSLER EXCEPTIONS--Ford and Chrysler will be permitted some variation to improve competitiveness. Such variation requires prior approval by director of competition.

CRATE MOTOR OPTION -Management reserves the right to experiment with adapting a GM 602 crate motor for use in the Hobby Stock division. All carburetion, weight, and other rules will be adjusted to maintain competitive balance. Contact the track for additional information.

TEAR DOWN CLAIM--For a fee of **\$750** any Hobby Stock driver may request to have the head, intake, exhaust, or carburetor removed for inspection. If found legal, **\$500** is awarded to the one inspected with **\$250** retained by the officials. If illegal, the fee is returned to the protester and the violator forfeits all money and points won that night. . **Officials can require valve covers, distributor, intake, carburetor, exhaust manifolds, and heads be removed and inspected for compliance. If components are found to be illegal they will be confiscated and destroyed.** If found to be legal the owner will receive \$100 allowance for gaskets.

2018 JEFFERSON SPEEDWAY BANDIT RULES

GENERAL --The Bandit class is designed to be an affordable and enjoyable introduction into auto racing and will compete on the 1/5 mile track. The minimum age to compete is 12 provided the driver has successfully completed the speedway's driver's class including a driving test. Parent or legal guardian must be present whenever a driver under 16 is competing.

CAR ELIGIBILITY--Any American or Foreign made 1980 to 2006, front wheel drive standard production automobile offered with a three or four cylinder EFI engine allowed. Wheelbase maximum is 104-inches. All reduced production/special application/performance cars are subject to additional requirements and/or limitations to ensure competitive equity. No Honda CRX, convertibles, T-tops, two seat, sports cars. All rear steer cars and special manufactured cars allowed only with prior approval. Driver/owner must complete a specification sheet at initial inspection. Chassis (VIN #, wheelbase, control arm lengths, etc) and engine (engine #, bore-stroke, EFI info, camshaft, etc.) specs required.

ROLL CAGE--Roll cage must have four uprights located in the furthest forward corners of the driver's compartment and directly behind the driver's seat. Roll cage must be constructed of 1-3/4" .090 wall mild tubing or equivalent. No pipe fitting's, galvanized pipe, or exhaust tubing allowed. Each roll cage upright must be welded to a 6" by 6" upper sandwich plate made of 1/4 inch steel and connected two the bottom sandwich plate by four - 1/2 inch diameter grade 5 bolts. Top of the roll cage must be reinforced with two bars each welded to a 6" by 6" 1/4 inch plate welded to the rear frame kick-up. Roll cage must include an "X" brace behind driver. Three bars required in both the driver's and passenger side doors. Left side door bar deflector plates of at least 1/8" steel required. Doors may be gutted, and inner panels removed for bar clearance. Welds must be gusseted and of good quality. One bar allowed through the driver-side firewall for feet protection.

ROLL CAGE CONTINUED-- Front hoops allowed and may be connected to the strut/shock towers. Strut/shock towers may not be altered but can be connected to the front hoop bars and connected side to side. Rear mounted anti-submarine bar allowed. Bar must be mounted four inches inboard of and four inches below rear bumper. Bar must be of max 2" square box or 1/3/4" diameter round tubing and be properly reinforced and triangulated.

SAFETY BELTS & HELMET-- Belts must be dated **2013** or newer. Helmet must be Snell SA **2010** or newer.

SAFETY EQUIPMENT-- Eye protection required. Complete approved fire retardant driving suit and gloves required. Aluminum racing seat with right and left side shoulder support and right side head support required. Operating fire extinguisher required. No radios.

BATTERY--May be relocated to interior and be securely mounted in sealed battery box.

EXHAUST--Maximum outside diameter 2-1/2 inches. Catalytic converter may be removed. Exhaust must exit rear of car behind driver. Effective muffler required. 100-decibel limit measured from 8th row of bleachers. No car expelling flame, smoke or backfiring allowed.

SUSPENSION--Completely stock suspension required, no modifications allowed. Stock or stock replacement struts or shocks, used in the stock location required. Cut, altered or racing springs allowed. Front cross-member must remain at stock ride height. Rear ride height cannot be lower than front cross-member height. OEM remote adjustable shocks must be disabled. Front spring spacers, spacer blocks, or weight jacks not permitted. Rear springs may be altered. Rocker box must be at production height. Maximum camber allowed is 1 1/2 inches front and rear measured at the wheel. No Shock covers allowed. One (1) maximum length 1" bump-stop allowed per wheel.

ENGINE AND DRIVE TRAIN--Engine must be stock for that make and model and have been offered for sale in the U.S. Four cylinders, 2400 cc's maximum. No turbochargers, superchargers or rotary engines. All engines must use stock motor mounts and be in stock location. Engine must remain completely stock. Wiring, including data port and computer configuration must remain as produced. Stock or stock replacement air cleaner required. Stock automatic or manual transmissions with all forward and reverse gears operating required. Stock, unaltered clutch required. Overflow tank located under hood required. A/C, smog pump and heater core may be removed.

DIFFERENTIAL--Differential must be stock for that make/model car. No locked differentials. All cars equipped with a limited slip or traction sensing differentials are subject to additional weight and percentage requirements.

WEIGHT Cubic centimeters Minimum weight

0 to 1799 2300 lb.

1800 to 1999 2350 lb.

3 valve OHC add 0 lb

2000 to 2299 2400 lb.

4 valve OHC add 25 lb.

2300 to 2400 2450 lb.

VVT- add 25 lb.

Add 25 lb for engines over 140HP (subject to adjustment by management)

Add 50 lb for engines over 160HP (subject to adjustment by management)

Add 75 lb for engines over 180HP (subject to adjustment by management)

Add 100 lb for Nissan SER 2 liter (subject to adjustment by management) All weights include driver.

Ballast weight must be securely fastened outside driver's compartment to roll cage or floor boards using sandwich plate method.

BRAKES -- Four-wheel brakes required at all times. Stock unaltered brakes only. No wheel fans or electric blower motors allowed.

WHEELS AND TIRES -- 13", 14" or 15" OEM steel wheels (no aluminum wheels) with maximum width 6-inches measured at bead allowed. Stock wheels may not be altered in any way. Aftermarket racing wheel with 4-1/2" backspacing and width (not to exceed 6") required on right front. No bleeders allowed. Stock passenger car radial tires only. 13" tires, maximum width P195, minimum 60 series allowed. 14" tires max width P205, 70, 65, & 60 series allowed. 15" tires max width P195, 70, 65, & 60 series allowed. Tires must not exceed \$75 MSRP. **All tire brands and products must be T or H rated and have prior approval from management.** Minimum durometer reading is 60. Minimum UTQG rating 380. Wheels must be same diameter per axle. One-inch lug nuts recommended. Management may claim any tire for \$50.

GAS TANK-- Stock tank in stock location are allowed if mounted ahead of rear axle. Cars without fuel pump mounted in tank must use fuel cell or marine tank not to exceed 8-gallon capacity. Gas tank must be placed as far forward in the trunk area and centered right to left as much as possible, above floor pan and secured with solid metal straps, bolts and washers. No plumbers strap allowed. Fuel line must exit top of tank. No fuel lines allowed in driver's compartment. Complete metal firewalls front and rear required.

BODY AND TRIM--Complete stock bodies with glass or Lexan windshields required. Body gutting is limited to doors, hood and trunk/deck lid. All doors must be welded shut. Fenders may be trimmed moderately for clearance. Stock bumpers front and rear required, moderate reinforcement allowed. Bumpers must be chained to frame. All glass and plastic must be removed, except for windshield. Hood pins must replace Hood and trunk latches. Hood X reinforcement must be removed. No aftermarket nosepieces allowed. Full rocker panels required. Side skirts must not be lower than rocker panel. Tire cutting edges must be trimmed. All flammable materials carpeting, etc. must be removed. No profanity or offensive lettering. Tow hooks required front and rear, ¼" cable has proved inadequate.

TEAR DOWN CLAIM--For a fee of **\$750** any Bandit driver may request to have the head, intake, or exhaust, removed for inspection. If found legal, **\$500** is awarded to the one inspected with **\$250** retained by the officials. If illegal, the fee is returned to the protester and the violator forfeits all money and points won that night. **Officials can require air intake, fuel injectors, coil packs, computer, and heads be removed and inspected for compliance. If components are found to be illegal they will be confiscated and destroyed. If found to be legal the owner will receive up to \$100 allowance for gaskets.**

CLAIM RULE--The track may purchase any car for **\$1,500** after any event. This amount is for the complete car. If the winning driver refuses the claim, he loses all prize money and points for that race meet and the car is barred from further competition. Claimed cars may be disposed of by auction or by any method at the tracks discretion. Management can claim any competitor's computer for \$100.

MANAGEMENTS DISCRETION--Management reserves the right to adjust any and all rules for safety or to enhance competitiveness.

2018 JEFFERSON SPEEDWAY ROAD WARRIOR RULES

GENERAL -- This is a stock production class for newer mid sized cars 6 cylinder front wheel drive cars with a maximum engine displacement of 3800 cc's. While drive train modifications are severely limited, innovation and modification to the chassis are allowed. This is not intended to be a beginner class although beginners are welcome to participate. The Road Warrior class is designed to be an affordable and enjoyable option for the racer.

CAR ELIGIBILITY--Any American or Foreign made 1985 to **2006**, front wheel drive standard production automobile with a six cylinder EFI engine allowed. Wheelbase minimum is 105-inches. No SUV's, vans, trucks, convertibles, T-tops, two seat sports cars, specialty, or all wheel steer cars. Driver/owner must complete a specification sheet at initial inspection. Chassis (VIN #, wheelbase, control arm lengths, etc) and engine (engine #, bore-stroke, EFI info, camshaft, etc.) specs required.

SAFETY BELTS & HELMET—Complete five point belts required, must be dated **2013** or newer. Helmet must be Snell SA**2010** or newer.

SAFETY EQUIPMENT-- Eye protection required. Complete approved fire retardant driving suit and gloves required. Aluminum racing seat with right side head brace required. Operating fire extinguisher required. Stock steering column may be replaced with steering shaft equipped with at least one intermediate shaft and u-joints. Removable steering wheel allowed. Roll cage padding required around driver. Push button/ toggle kill switches required. No two-way radios.

ROLL CAGE--Roll cage must have four uprights located in the furthest forward corners of the driver's compartment and directly behind the driver's seat. Roll cage must be constructed of 1-3/4" .090 wall mild tubing or equivalent. No pipe fitting's, galvanized pipe, or exhaust tubing allowed. Each roll cage upright must be welded to a 6" by 6" upper sandwich plate made of 1/4 inch steel and connected two the bottom sandwich plate by four - 1/2 inch diameter grade 5 bolts. Top of the roll cage must be reinforced with two bars each welded to a 6" by 6" 1/4 inch plate welded to the rear frame kick-up. Roll cage must include an "X" brace behind driver. Three bars required in both the driver's and passenger side doors. Left side door bar deflector plates of at least 1/8" steel required. Doors must be gutted and inner panels removed for bar clearance. Welds must be gusseted and of good quality. One bar allowed through the driver-side firewall for feet protection. Sub frames must be connected in driver's compartment. Strut/shock towers may be connected side to side and with front hoop.

SUSPENSION--Stock suspension in stock location required. Spring diameter and height can be adjusted. Strut/shock towers can be reinforced and altered for camber. Only one steel non-adjustable, non-rebuildable, shock/strut in stock location per wheel. Max MSRP \$80 for strut/shock. Adjustable spring spacers, where shock mounts through spring, and screw type where shock mounts outside spring allowed. Coil-over threaded collars allowed on strut type suspensions. Screw jacks and aftermarket adjustable coil-over springs allowed. Aftermarket adjustable upper control arms and ball joints allowed. Minimum ground clearance 4". Heim joints are allowed on rear control arms.

ENGINE AND DRIVE TRAIN--Engine must be stock for that make and model and have been offered for sale in the U.S. Six cylinders required. No turbochargers, superchargers or rotary engines. All engines must use stock motor mounts and be in stock location. Engine must remain completely stock including intake/throttle-body and exhaust manifolds. Computer may be re-programmed/re-chipped. No ram air or forced air induction systems allowed. Aftermarket air filters allowed. Wiring, including data port and computer configuration must remain as produced. Stock automatic transmissions with all forward and reverse gears operating required. Differential must be stock for that make/model car. No locked differentials. All cars equipped with a limited slip or traction sensing differentials are subject to weight and percentage adjustments. Overflow tank located under hood required. A/C, smog pump and heater core may be removed.

WEIGHT Cubic centimeters Minimum weight

0 to 2999 2700 lb.

3000 to 3199 2800 lb.

3200 to 3499 2900 lb.

3500 to 3800 3000 lb.

3 valve OHC add 25 lb.

4 valve OHC add 50 lb.

Add 50 lb for Variable timing engines (subject to adjustment by management)

Minimum front-end weight must be 57%. Minimum right-side weight must be 45% of total.

All weights include driver. **Minimum weights and percentages may be adjusted to enhance competitiveness of the class.**

Ballast weight must be securely fastened above the bottom of a plated frame rail section or to the roll cage behind the driver.

BRAKES -- Four-wheel brakes required at all times. Stock, unaltered brakes only, ABS units may be removed. **Brake bias adjusters allowed and may be located in driver's compartment.** No wheel fans or electric blower motors allowed.

WHEELS AND TIRES - 14", 15" or 16" OEM steel wheels with maximum width 7-inches measured at bead allowed on rear axle.

Aftermarket racing wheels with four inch offset required on front (drive wheels). All wheels must have 4" backspacing allowed. One 1/4" maximum wheel spacer plate allowed per wheel. All wheels must be of same diameter. No bleeders allowed. Stock (dot) radial passenger car tires only. Maximum width P225 .70, 65, or 60 series tires allowed. Tests with selected 50 & 55 series tires may be conducted for cars with gear ratio selection issues. Tires must not exceed \$ **95** MSRP. **All tire brands and products must be T or H rated and have prior approval from management.** Minimum durometer reading is 60. Minimum UTQG rating 380. One-inch lug nuts and heavy-duty studs recommended. Management may claim any tire for \$65.

GAS TANK-- Stock tanks in stock location are allowed if mounted ahead of rear axle. Cars without fuel pump mounted in tank must use fuel cell or marine tank not to exceed 8-gallon capacity. Gas tank must be placed as far forward in the trunk area and centered right to left as much as possible, above floor pan and secured with solid metal straps, bolts and washers. No plumbers strap allowed. Fuel line must exit top of tank. No fuel lines in driver's compartment. Complete metal firewalls front and rear required.

BATTERY--May be relocated to interior and be securely mounted in sealed battery box.

EXHAUST--Maximum outside diameter 2-1/2 inches. Catalytic converter may be removed. Exhaust must exit rear of car behind driver. Effective muffler required. 100-decibel limit measured from 8th row of bleachers. No car expelling flame, smoke or backfiring allowed.

BODY AND TRIM--Complete stock bodies with glass or Lexan windshields required. All window openings and window posts must be as produced by manufacturer. Body gutting is limited to doors, hood and trunk/deck lid. Inner fender wells must be left in place. Outer fenders may be moderately trimmed for tire clearance. All doors must be welded shut. Fenders may be trimmed moderately for clearance. Stock bumpers front and rear required, reinforcement allowed. All glass and plastic must be removed except windshield. Hood pins must replace Hood and trunk latches. Hood X reinforcement must be removed. No aftermarket nosepieces allowed. Full rocker panels required. Side skirts allowed to bottom of rocker panel. Tire cutting edges must be trimmed. All flammable materials carpeting, etc. must be removed. No profanity or offensive lettering. Tow hooks required front and rear, ¼" cable has proved inadequate.

TEAR DOWN CLAIM--For a fee of **\$750** any Road Warrior driver may request to have the head, intake, or exhaust, removed for inspection. If found legal, **\$500** is awarded to the one inspected with **\$250** retained by the officials. If illegal, the fee is returned to the protester and the violator forfeits all money and points won that night. **Officials can require air intake, fuel injectors, coil packs, computer, and heads be removed and inspected for compliance. If components are found to be illegal they will be confiscated and destroyed. If car found to be legal the owner will receive up to \$100 allowance for gaskets.**