



**Factory Stock
2022 SEASON**

DRIVERS PLEASE READ

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 events, and by participating in these events, all participants are deemed to have complied with these rules. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS 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 a participant, spectator or official. The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose any further restrictions that in his opinion do not alter the minimum acceptable requirements. **NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS.** Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final.

General

It is the sole responsibility of each competitor for the effectiveness and proper installation of safety equipment per the manufacturer's specifications to be adequate for competition at every event. Each competitor is expected to investigate and educate themselves for continuing improvement regarding their own personal safety equipment.

Any Interpretation or deviation of these rules is left to the discretion of the officials, whose decision is final.

Rules subject to change at track discretion.

RACECEIVERS MANDATORY: TRANSPONDERS MANDATORY: IT IS THE DRIVERS RESPONSIBILITY TO HAVE THEM IN WORKING ORDER TO RACE AT THUNDERBIRD RACEWAY.

Seat Belt/Restraint System

1. It is recommended that each car be equipped with an SFI 16.5 or SFI 16.1 approved seat belt restraint system until the date of the belt expiration (usually two years). Seat belt restraint system shall be installed in accordance with the directions and application of the system supplier or manufacturer.
2. Seat belt webbing that comes into contact with any sharp or un-radiused metal edge should be protected from that edge by means of push on grip vinyl trim. Seat manufacturers supply the seat with trim protecting the webbing from abrasion or cutting under impact conditions and should be used to their specifications.
3. It is the responsibility of the driver, not the officials or the promoter to ensure that his/her seat belt restraint system and all components are SFI approved, correctly installed, maintained and properly used.

Protective Clothing

1. Each driver must wear a fire-resistant uniform meeting the SFI 3.2A/5 specification and display a valid SFI 3.2A/5 label.
2. Each driver should also wear fire resistant accessories that effectively cover the remaining parts of the body. Shoes and gloves should meet the SFI 3.3 specification and display a valid SFI 3.3 label.

Safety

1. A 2 ½ pound minimum fire extinguisher with gauge visible for inspection purpose is mandatory in each race car hauler.
2. Driver must wear approved SA 2000 or newer racing helmet, SFI fire suit, unaltered neck restraint and Nomex gloves
3. Driver's head with helmet on must NOT rise above the roll bars.
4. All cars must have an aluminum racing seat and be fastened to the roll cage.
5. Cable or tie strap must hook gas cap to the fuel cell.
6. Added weight must be painted white clearly labeled with car number. (2) 1/2" bolts bolted through the frame or tubing or ballast clamps (2).
7. Window net MANDATORY!
8. No sharp or protruding edges in or around the driver compartment, which would impede the driver's rapid exit from the car.
9. An electric engine shut off switch is required. The switch must be labeled and within the reach of the driver.
10. Flame retardant seat, roll bar, knee and steering pads or padding are recommended

General rules for drivers and crew apply in addition!

Drivers must be 14 years old or older to race in this class.

Battery

Must arrive at the track fully charged. May be located anywhere outside the driver's compartment.

Brakes

All in working condition (all four must lock in brakes test). One front to rear brake adjuster allowed. No right front shut off. **No solid, scalloped, drilled, or slotted rotors.**

Cars

A borrowed car must be from the same division. A car cannot run in two features in one night. A car can only be run in championship races in a single division. Street Stock cars are limited to American 1950 to 2005 passenger cars only. **Must maintain stock appearance.**

Engine

1. The engine and body must be manufactured by the same company.
2. The number one spark plug must align itself in a perpendicular line with the center of the upper ball joint for each manufacturer.
3. The engine must be cast iron. **No GM Bowtie, Ford SVO or Chrysler W blocks.**
4. Cast iron cylinder heads of any make are permitted.
5. Roller rocker or roller tip rocker arms will be permitted.
6. Roller cams and roller lifters are NOT permitted. Roller and/or mushroom-type lifters will NOT be permitted. (NOTE: 1" inspection hole in the intake will help with tech inspection.)
7. Aluminum intake manifolds will be permitted. No air gap type.
8. Mufflers mandatory.
9. Aftermarket exhaust headers will be permitted. The direction of the exhaust flow must exit away from the car and the track surface.
10. Racing-type and/or specific racing-type distributors will NOT be permitted.
11. One 500 CFM Holley #4412 carburetor is required.
 1. The original choke tower must remain in its stock position and configuration.
 2. The choke blade may be removed.
 3. Any other alterations to the body of the carburetor, internal working mechanisms, venturis throttle plate and/or any other and/or component of the carburetor will NOT be

- permitted.
4. Only mechanical fuel pumps will be permitted.

Transmission Driveline All Types

1. The transmission must have a minimum of at least two forward gears and one reverse gear, plus neutral position.
2. Only OEM production type transmission will be permitted; two speed, three speed, four speed and automatic.
3. Bert-Brinn type trans allowed.
4. Steel Bellhousing recommended

Automatic Transmission

1. Any automatic-type transmission must remain in an OEM or OEM replacement case. Direct drive ok
2. The original OEM bell housing must have an approved scatter shield constructed of minimum 0.125" inch by 3" inch steel, 270 degrees around flex plate. Manual bump starts will be permitted.

Driveshaft

1. The driveshaft must be a minimum 2" diameter and made from magnetic steel.
2. The driveshaft must be painted white and clearly labeled with the car number on white portion of the driveshaft.
3. A 360 degree driveshaft loop will be required and must be constructed of at least 0.25" by 2" magnetic steel, and/or 1" diameter tubing, mounted 6 inches behind the front universal joint. A second driveshaft hoop is recommended and must be placed within 12" of the front universal joint.

Chassis

1. Only American manufactured cars and/or full size "uni-body" type cars will be permitted.
2. All vehicles must maintain a minimum of 107" wheelbase. 1 1/2 " wheel base tolerance side to side
3. Altering of stock frame, with the exception of repair to the original frame to maintain original specifications will not be permitted. Repairs that will be acceptable will include patching of holes and/or rust(ed) areas of the frame. Repairs will be approved at the discretion of Thunderbird Raceway and/or track officials.
4. Frame rail connecting front and rear sub frames must be stock frame rail. Rear of frame behind rear tires, no further forward than one inch behind factory seam, may be replaced in OEM location with minimum 2 inch by 2 inch steel tubing with 0.095 inch wall thickness. Factory seam must remain visible. Frame may be X" braced. No mixing of frame and /or suspension parts. Engine and body must match

Weight

1. The minimum weight requirement at all times will be 3000 LBS.
2. All weights must be securely mounted with (2) 1/2" bolts securing them to the frame in a positive manner. The weight(s) must be painted white with the car number clearly marked on them. All weights must be mounted under the body of the car.

Fuel Cells and Fuel

1. Only gasoline-type fuels will be permitted. No methanol or E-85.
2. The fuel cell must be securely mounted in the rear of the car and secured with 2" wide straps. It is recommended that the fuel cell be mounted solidly to the rear frame rails of the vehicle in a fabricated manner.
3. All fuel cells must be enclosed in a metal container.
4. The fuel cell must be a steel container with a minimum of two 1" x 1/8" steel straps on each side of the container to mount the fuel cell.

Body

1. The body and engine must match the manufacturer. **The body mounting position and overall appearance must retain all stock OEM dimension.** All glass, chrome and upholstery must be removed from body prior to competition. The body must be made from magnetic steel.
2. It is mandatory that three support bars fabrication from magnetic steel tubing, a minimum of 1"

diameter and .095 wall thicknesses be spaced equally in front of the driver and welded to the top roll cage bar and the dash bar or the roll cage in a vertical manner.

3. The floor pan and firewalls must be stock in appearance and be complete on both the driver and passenger side of the vehicle. The floor pan and firewalls (front and rear) may be repaired and/or fabricated but, must retain stock appearance and stock material thickness. The front of the rear firewall must maintain the same height as the top of the front of the dashboard.
4. The driver and passenger compartment must remain open from left to right exposing the stock appearing floor pan. You may run from the top of the transmission tunnel over to the right door. Must maintain same height as trans tunnel
5. **NO INTERIOR DECKING.** From the rear halo back may be filled in with sheet metal. Flat, side to side. Flat back to the rear deck lid.
6. The body, including fenders, quarters, and decks should be magnetic steel and remain stock or approved stock in appearance. Aluminum fenders, doors, quarters OK. Must resemble stock panels in shape and contour. Fiberglass hood and roof OK. Deck lid dimensions must remain stock for the year and model body you are using. **No flat roofs must have contour front to back and side to side.** The deck lid will be mounted parallel to the chassis main frame rails or downhill to the spoiler. NO uphill rake on the deck lid to the spoiler. Maximum rear deck lid height is 38"
7. Plastic skirting allowed. 5" min. ground clearance. Plastic aftermarket front nose will be permitted provided they are approved and stock appearing for the year, make and model of the car. Late model type aerodynamic noses will not be permitted. Dominator Camaro nose ok.
8. Rub/side rails may be attached flush to the body from the fender well to the rear quarter panel.
9. The window openings, front and/or rear, driver and/or passenger side must retain their stock OEM dimensions.
10. Mirrors of any type are not permitted.
11. The back of the hood must be sealed off from the driver's compartment.
12. The front bumper must remain stock. Sharp edges will not be permitted. Both sides and ends of the bumper must be capped. Tube-type front bumpers will be permitted. Tube-type bumpers must have capped ends.
13. The rear of the car must be enclosed. The rear bumpers may be covered and must have round edges and connect solidly to the frame. Aftermarket rear bumper covers will be permitted provided they are approved and stock appearing for the year, make and model of the car.
14. SPOILERS- No Spoilers are allowed for the 2022 season.
15. Station wagon and Camero bodies are ok.

Body Dimensions

1. Maximum Body/Deck width 67".
2. Minimum window opening 13 1/2".
3. Stock appearing front and rear sail panels – OEM size and dimensions.
4. Maximum 38" rear deck height.
5. Minimum 5" ground clearance for all body panels

STEERING: No rack and pinion. All components must be steel, unaltered OEM, in OEM location and match frame. Exceptions are: replacement spindle with Speedway Motors raised cast – part numbers 91034501-L and 91034501-R, OEM steering column may be replaced with steel knuckles and steel steering shafts (collapsible recommended). **NO STRAIGHT STEERING SHAFTS ALLOWED.** (Must have minimum ONE knuckle in shaft.) Quick release required – steering quickner and steering wheel may be aluminum.

Suspension

1. All suspension components must remain stock in their OEM mounting for the year, make and model of the vehicle with the exception of racing shocks. Springs must maintain original mounting locations and may NOT be relocated. OEM tie rods. OEM center links – No slotted or adjustable center links. Lower A-Arms must match make of frame.
2. Aftermarket steering wheel and quick release are permitted.
3. Steering quickening devices are permitted.
4. Only stock OEM-type bolt-in upper ball joint will be permitted. Adjustable and/or truck type ball joints

will NOT be permitted.

5. Approved tubular-type A-frames, mounted in their stock location will be permitted. Speedway Motors 3- piece spindles ok. Must match make of frame.
6. The lower rear trailing arms must remain in their stock OEM length and format, from the original OEM application and measurement system (English or Metric) and must remain specific to their particular chassis/frame. The lower rear trailing arms must be mounted in the stock location. **Additional holes in the frame will not be permitted.** Must be non-adjustable.

Lower rear trailing arm mounts on the rear end may have adjustable holes for up and down movement

NOTE: **LOWER TRAILING ARMS MAY NOT ATTACH LOWER THAN 2½" BELOW THE BOTTOM OF THE REAR END AXLE TUBE TO CENTER OF TRAILING ARM BOLT. No adjustable trailing arm brackets-** This includes moving brackets side to side or altering wheel base.

7. The upper rear trailing arms may be altered (shortened and/or lengthened) to obtain the correct pinion angle. May not be adjustable.
8. Aftermarket bushings will be permitted, but the arm must not be altered in any manner. Slots and/or adjustable rod ends will not be permitted
9. Leaf-type springs will be permitted. Only stock OEM-type magnetic steel leaf springs(s) stack(s) will be permitted. Single leaf, non-type leaf and/or any type of slider and/or any composite leaf-type application will not be permitted.
10. Coil-over applications of any type will not be permitted.
11. Aftermarket coil springs will be permitted. The coil springs locations may be altered on the rear end mounting pad. 2 1/2" tolerance from the original spring pad centerline-front to rear.
12. Shocks: One steel nonadjustable unaltered shock per wheel. No coil over, air, or remote reservoir shocks. **No bulb type shocks.** No Schrader or bladder type valve allowed. Outboard mounted front shocks will be permitted. One or all shocks may be claimed per event for \$50 each. If driver claims shocks driver cannot claim engine or carburetor that night.
13. Weight jacks will be permitted.
14. Hydraulic ratchet and/or electric weight jacks are not permitted.
15. Only stock-type OEM brakes will be permitted. All four corners must be in working condition prior to and following the completion of competition. Aftermarket brake pedals will be permitted. No right front shut-off.
16. Suspension components that are adjustable within driver compartment of any type will not be permitted.

Wheels and Tires

1. A maximum 8" wide steel racing wheel will be permitted. Aluminum and/or magnesium and/or mag- type and/or homemade wheels will not be permitted. 1" magnetic steel lug nuts will be permitted on all four corners of the vehicle.
2. **Approved tires; Hoosier G60 with IMCA stamp only.**
3. A bead lock will be permitted on the right rear tire only.
4. Aluminum wheel spacers only-NO steel wheel spacers or adaptors. NO add on weights

Seats

1. Racing seat is mandatory! Seat must be securely mounted to the frame or roll cage.
2. Head rest (behind the head) should include padding. All areas surrounding the head should have padding.
3. The seat should be mounted 30" from the centerline of the rear axle (any part).

Full containment seats highly recommended

Rear End

1. **Ford 9" rear end OK.**
2. **Floater rear end OK.**
3. **Spool only. No lockers or differential type carriers.**

Roll Cage

1. A minimum 4-point competition roll cage is required. The roll cage must be constructed of magnetic steel tubing that is a minimum of 1 1/2" in diameter, with a minimum tubing thickness of .095 (wall thickness).

WRECKER HOOKS MANDATORY FRONT AND REAR

Both must be accessible. If no wrecker hooks are on the car, the car will be pushed, towed, or dragged to the infield until after the racing program is completed. 3/16 chains are mandatory.

NEITHER WRECKER CREWS NOR RACETRACK PERSONNEL WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO ANY VEHICLE. NOTE:

Non-Conforming or altered parts may be confiscated. No reflective car numbers. If we can't see them from 100 feet away at 80 MPH, you may not be scored.

CLAIMS

Promoter only claim on engine - \$850

Promoter only claim on shock claim - \$50

Promoter only carburetor claim - \$250

Updated 3/18/22