

Thunder Valley Speedway

Hobby Stock Class Rules 2024

*****Transponders will be mandatory*****

PASSENGERS FOR ALL CLASSES INCLUDING DEMO IS NOT PERMITTED

Vehicle Type and Wheelbase

- Vehicles are **required** to be full or mid size American made cars.
- Vehicle is **required** to have a stock wheelbase of 101 inches or more.

Transponders & RACEceivers

- RACEceivers are not mandatory, but they are highly recommended.
- Transponders will be mandatory
 - Those running without one will not time in and will run in the rear.

Safety Equipment

- Fire Suit is **mandatory** for all vehicle occupants.
- All race vehicles are **required** to have fire extinguishers mounted within drivers reach when strapped into the vehicle.
- 4 point harness or racing style restraints are **required**.
 - 5 point safety harnesses are recommended.
- Harnesses are **required** to be securely mounted.
- All race vehicles are **required** to use a driver's window net.
 - Passengers are NOT permitted
- Drive shafts are **required** to be painted white or bright color and have a safety loop.
- Batteries are **required** to be securely mounted and covered.
- All switches are **required** to be securely mounted and labeled.
- All race vehicles are **required** have functioning brakes
- Drivers are **required** to wear a helmet with eye protection.

Roll Cage Requirements

- A 4 point full width cage minimum is **mandatory**.
- Roll cage is **required** to be mounted to the frame.
- Minimum tubing size is 1.25 inch ID schedule 40 pipe.
- **Required** to have a minimum of 2 horizontal bars on the driver's side and 2 horizontal bars on the passenger side.
- Main loop is **required** to be over the driver's head.

- If the roll cage is mounted to a unibody, frame mounting plates are **required** to be utilized.
 - Self tapping bolts or screws are not permitted.
- Front and back loops are permitted.
 - Do not exceed past the body of the vehicle.

Body

- All glass and plastic is **required** to be removed.
- Full screen across windshield is recommended.
- Hood is **required** to remain on car and may be lightened.
- Sheet metal is **required** to remain in reasonable condition.
- Side bars no bigger than 1.25 inch in diameter is permitted with maximum of 1 inch away from body, must be smooth radius and terminate at least 3 Inches inside of body with no sharp edges.

Bumpers

- Stock factory bumper is **required**.

Frame

- Frame and body are **required** to remain stock.
- Attachment points for wreckers are **required** to be present at both the front and rear of the vehicle.

Front End Suspension

- Suspension is **required** to remain stock.
 - Reinforcement of the front A arm is permitted.
- Right front wheel may be reinforced.

Engine

- Engine is **required** to stock. OEM blocks only.
- Crate motors and after-market blocks are not permitted.
- Aluminum blocks are not permitted
- 350 CI mac + 5% for clean up boring
- OEM cast iron heads only, aluminum heads are not permitted.
- Air gap aluminum intakes are not permitted.
- Headers are not permitted
- Flat top or dish pistons only
- OEM cams only, after-market race cams are not permitted.
- Roller cams or rockets are not permitted.
- Max lift of .500
- Engine is **required** to have battery operated ignition.
- 180 LBS maximum compression permitted.
- Engine is **required** to have a stock cast iron block.

- Use of superchargers, injection systems or turbo chargers is not permitted.
- Single naturally aspirated gasoline carburetor, factory fuel injection, or OEM electronic fuel injection is permitted.
- Engine is **required** to remain stock, however the exception of an aluminum intake is permitted.
- Use of roller cams, aftermarket racing heads, exhaust or block is not permitted.
- Engine is **required** to remain in stock location, set back is not permitted.
- No roller cams or rockers
- Max lift of .500

Fuel & Fuel tanks

- Gasoline only.
- Fuel cell use is recommended.
 - If a fuel cell is utilized, it is **required** to be securely mounted in the trunk area and have a spill check valve.

Tires and Rims

- Snow, studded, or aftermarket racing tires are not permitted.
- Tires are **required** to have tread no wider than 8 Inches.
- 8 Inch maximum width rims are permitted.
- Bead locks are permitted.
- Tire grooving is permitted.

Tech

- For a driver to protest another driver, both cars must have finished on the podium on that days feature race. This includes the protester and the protested both.
- There will be a fee of \$250 to protest another car
 - If the car is deemed legal the driver that passed inspection will keep the \$250.
 - If the car is deemed to be illegal the protester will get his/her money back and the driver will lose all their season points and purse for the day, including trophies.
- If a driver refuses the tech inspection, they will face the same punishment as if they were found to be illegal.
- Tech will be following the conclusion of the race day.
 - The protester can remain anonymous.
- Tech will include the following
 - Scope of the cylinder to verify legal pistons
 - Remove valve cover to look for roller rockers and/or use a dial indicator to tech cam specs.
 - Cubic inch test with bubble tester
 - Visual inspection

Numbers

- All race vehicles are **required** to have numbers on both sides of the vehicle, and on the roof.
- Numbers must be legible from the timing tower and of contrasting color to paint scheme.

Entry Fee

- \$40 except for special events.