

2018 FWD Compact Rules (pending)

The following specifications are shared with you and are similar to other Thunder Car specifications at other speedways. The rules are meant serve as guidelines for the construction of a "Stock Car" to participate in automobile racing. No express or implied warranty of safety shall result from publications of or compliance with these rules. They are intended as a guide and are in no way a guarantee against injury or death to participants, spectators, or others.

The promoter or his assigned steward must approve items not covered by these guidelines. These specifications are intended to be in effect throughout the 2018 auto-racing season. However, continuous development in auto racing and technology may necessitate changes in these guidelines, and management reserves the right to change them at any time.

Purpose:

The FWD Compact class is a budget/economy class that allows drivers a chance to go racing with minimal investment. This class is all about having fun while gaining entry level or additional race experience! Drivers must be at least fourteen (14) years of age unless approved in advance by track promoter (a copy of birth certificate required along with a minor's participation release).

Keep your cars within the factory production-based rules. DO NOT OVERSPEND!

Eligible Cars

1. Four or six cylinder, front wheel drive passenger cars are eligible with a wheelbase between 92-105 inches. No Lumina or similar style frames.
2. Cars must utilize engine available in the car/body style being used.
3. No all-wheel drive. No all-wheel steer.
4. A diagnostic plug under the dash must be present.

Engines & Transmission:

1. Only four or six cylinder naturally aspirated engines will be allowed. **Engine must be completely stock as manufactured by factory, including engine, drive train, ignition components, suspension components, and fuel system, except as noted below. Only the complete stock engine/drive train for the make and model as delivered from the factory may be used.** No rotary engines.
2. All 6-cylinder engines may utilize only one cam per head and 2 valves per cylinder. V-6's

must run an automatic transmission. 3.8 GM V6 Engines are not allowed. See exhaust dimension rules below for exhaust restriction requirements.

3. Stock intake manifold must be used with no modifications.
4. Stock exhaust manifold must be used with no modifications. Headers are not permitted. Removal of smog, emission, air conditioning, and power steering parts are permitted.
5. A complete exhaust must be in place completely under vehicle. No portion of exhaust may pass through interior and must exit under vehicle behind the driver. Removal of catalytic converter is allowed.
6. Cars with engines utilizing Dual Over Head Cams (DOHC) or more than 1 cam may NOT have exhaust that exceeds 1.5" in diameter. All other cars must utilize exhaust with 2" diameter maximum. The exhaust system must be completely sealed and the maximum diameter must be utilized in at least the last 24" of the exhaust pipe.
7. Must use stock style starter. Battery may be relocated to an area behind driver. If so it must be secured & covered.
8. Transmission must remain stock and unmodified for that vehicle's production. Transmission must have working forward and reverse gears.
9. No V-Tech Engines. No Adjustable Timing Camshafts. No JDM engines. Turbo chargers, super chargers, carburetors, or nitrous oxide are NOT allowed.

Body:

1. All exterior trim, including lights, body moldings, mirrors, etc. must be removed. Stock body panels are to be used. Only stock bumpers may be used. Drivers and passenger door must be welded or bolted shut.
2. Cars must have stock frame, stock firewall, and stock floor pan. All openings in firewall & floor pan must be covered. No reinforcing of body outside the drivers compartment. Hood must be secured with a minimum of two hood pins each (NOT BOLTS).
3. Windshield must be replaced with heavy gauge wire mesh. Three 3 bars of 3/8" diameter must be welded to the roll cage in front of driver. All glass must be removed from the vehicle.
4. Spoilers will be allowed Stock or Aftermarket. Aftermarket spoilers can be a maximum of five inches tall and 50 inches wide.
5. All flammable interior trim is to be removed from passenger compartment & trunk. No removal of ANY interior sheet metal panels except in drivers door to make room for cage. Heating and air conditioning box may be removed.
6. Racing Seat is required.

7. Steering column and pedals must remain stock. All air bag components must be removed. Collapsible steering column is recommended.
8. A full, four-point standard cage is required. Cage must go completely from left to right side and may not protect just the driver's side. All cars must have a minimum of three door bars on the driver's side and two on passenger side. Minimum 1/8" thick plate must be welded or bolted to the outside of the driver's door bars. Cages must be welded or bolted to the floor of the car. All cars must have crush zones and bars cannot go all the way to rear of trunk area if tied to strut tower. A maximum of two rear down bars may be used to support the hoop. These bars may run from the top of the hoop behind the driver and extend to the front of the rear firewall. A single cross bar or "X" may be used between these down bars. Rear down bars MUST be attached to the trunk FLOOR. Main cage must have at least two bars running from left to right, between the uprights, behind the driver. One at floor level, and one at shoulder height of the driver. Roll Cage tubing must be minimum 1 1/2" diameter and .095 thickness.
9. Main Shut-Off switch for electric fuel pump must be easily accessible by Safety Personnel, and clearly labeled as such.
10. Cars must have tow chains or tow hooks front and back for tow truck pick up.
11. Cars must be neat in appearance and neatly numbered on BOTH SIDES and TOP with a minimum of 18" numbers.

Tires & Suspension:

1. All four tires and wheels must be the same size, series and offset. D.O.T. approved passenger car tires only. No "made for racing" tires. All tires must be non- Directional, All Season Radials. No Asymmetrical tires. Tires can be 13, 14, or 15 inches maximum. They can be 75, 70, 65, or 60 series
2. A maximum of seven-inch width for 15-inch wheels and six and one half inches for 14-inch wheels. All four wheels must be the same size and offset. Racing wheels are allowed (NOT required), but must maintain same size and offset as OEM. No rear wheel drive offset wheels will be allowed. No spacers will be allowed behind wheels.
3. Steering and suspension shall remain stock. OEM style shocks, struts, and springs ONLY may be used. No heating or cutting of spring allowed. Spring Rubbers will be allowed (1 per wheel). No progressive rate springs will be allowed.
4. For cars that do not have camber adjustments built in from the factory, modification of existing parts, to allow for camber only adjustments will be allowed, but subject to approval. Front Camber adjustment is 2 3/4" Maximum. Rear Camber adjustment is 1" Maximum.

5. All four brakes must remain stock. ABSOLUTELY NO ABS OR TRACTION CONTROL. All ABS sensors must be disabled.

6. Cars that have fuel tank mounted in front of rear axle may use stock tank. If tank is not mounted in front of rear axle, a fuel cell or marine type tank must be used and securely mounted in the trunk area of the car. Trunk mounted tanks cannot be mounted within ten inches of the rear trunk panel and may not extend beyond the side frame rails. All fuel tank installations must be centered between the rear wheels. **Racing Fuel Cells HIGHLY recommended!**

7. No emergency brakes allowed.

Safety

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

Seat Belt/Restraint System

1. Each car should be equipped with an approved 5-point seat belt restraint system within the date of the belt expiration. Seat belts restraint systems 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 unradiused 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.

Helmet, Fire Suit, Gloves, Window Net, and Other

1. Each driver must wear an approved full-face helmet, fire suit with top and bottom, and racing shoes and gloves. The driver should wear the helmet and other safety equipment in accordance with the directions provided by the helmet manufacturer and/or supplier and the driver should make sure that equipment dates and quality/protection needs meets the needs of competitive racing.
2. Head and Neck restraints are strongly recommended.
3. Driver door net or triangle is required
4. Fire Extinguisher easily assessable to driver is recommended

RACEceiver

1. RACEceiver (one way) Radio is mandatory and shall be used by drivers during all wheel packing, hot laps, heat races, and B/A Main sessions

Additional Rules:

1. NO WEIGHT OR BALLASTS ARE TO BE ADDED TO CAR unless as a penalty per these rules and must be mounted in location to be determined by officials
- .2. Officials may change any of the FWD Compact rules in the interest of fairness and safety at any time and all decisions are final! Officials may also alter the rules to encourage local participation.
3. Cars may be inspected at anytime. If car is found illegal, driver will lose all money and points for that night.
4. FWD cars will follow all track procedures and car entry requirements.

Three (3) Consecutive Wins Handicapping

Any driver or car in the Super Streets, Thunder Car, or FWD Compact division that wins three consecutive A Main events at Gas City I-69 Speedway will be required to start the next A Main feature at the tail of the field. If the next event is a special paying event, the handicap will not be assessed until the next regular event if the consecutive win streak is still in place. The handicap will be assessed until the driver/car win streak is broken.

DISCLAIMER

THE PROMOTER/TRACK OFFICIALS SHALL BE EMPOWERED TO PERMIT MINOR DEVIATION FROM ANY OF THE SPECIFICATIONS HEREIN OR IMPOSE FURTHER RESTRICTIONS THAT IN THEIR OPINIONS DO NOT ALTER THE MINIMUM ACCEPTABLE REQUIREMENTS. NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHOULD RESULT FROM SUCH ALTERATIONS OF SPECIFICATIONS. ANY INTERPRETATION OR DEVIATION OF THESE RULES IS LEFT TO THE DISCRETION OF THE PROMOTER/TRACK OFFICIALS. PROMOTER/OFFICIAL DECISIONS ARE FINAL.

The absence of a specific rule does not imply approval, consent, or permission regarding the subject.