Figure Eight Division Rules

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Figure 8 Payout

Position	Payout
1st	$510
2nd	$315
3rd	$265
4th	$210
5th	$180
6th	$160
7th	$135
8th	$110
9th	$90
10th	$75
11th	$65
12th	$55
13th	$50
14th	$40
15th	$40

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Figure Eight Rules

Purpose of the Division

1. The Riverhead Raceway Crown Vic Figure Eight Division is designed to offer competitors an affordable, competitive, and predominantly stock form of Figure Eight racing.
2. Except where these rules expressly authorize a change, every vehicle must remain in stock configuration.
3. A modification is not legal simply because it is not addressed in this rulebook. If a change is not specifically authorized, it is prohibited.

Approved Vehicles

1. Competition is limited to the following vehicles:
    - 1995 through 2011 Ford Crown Victoria.
    - 1995 through 2011 Mercury Grand Marquis.
    - 1995 through 2011 Lincoln Town Car.
2. No vehicle, manufacturer, model, or drivetrain combination other than those listed above will be accepted.

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Battery

1. The battery may be relocated to the driver's compartment. If relocated, it must be securely mounted and enclosed in a spill-proof container with a cover.
2. A relocated battery must have a disconnect switch mounted on the dashboard in plain view and clearly marked "ON–OFF." The switch lever must be painted bright orange.
3. Only one standard automotive battery is permitted, with a maximum voltage of 12 volts.

Bodies

1. Drivers are encouraged to take pride in the appearance of their cars. The following items are permitted:
    - Sheet metal doors.
    - Five Star bumpers.
    - Side skirts.
    - Rear spoilers under 8 inches tall.
2. Please ask track officials if you have any questions.

Camber

1. Aftermarket camber bolts are permitted to achieve maximum camber.
2. Cutting sway bars is not permitted.
3. Cutting or lengthening upper or lower control arms is not permitted.

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Computer Tuning and Programming

1. An OEM Ford PCM compatible with the permitted engine and vehicle must be used. Compatible replacement or remanufactured OEM Ford PCMs are permitted.
2. Aftermarket standalone engine management systems are prohibited.
3. Reprogramming, reflashing, and custom tuning are permitted without restriction on calibration settings, including fuel delivery, ignition timing, throttle response, RPM limits, speed limits, and transmission operation.
4. All engines, transmission, fuel system, and other components must comply with their respective division rules. Permission to tune does not authorize otherwise prohibited modifications or fuels.
5. The OBD-II system must remain intact and operational.

Driver Safety and Equipment

1. All drivers must wear a full-face helmet rated Snell 2020 or better and in good condition. M-rated helmets are not permitted.
2. A fire suit, gloves, and shoes rated SFI 3.2A-1 or better are mandatory.
3. An AMB 260x, MyLaps Flex, or MyLaps X2 transponder must be mounted on the passenger side, a minimum of 12 inches behind the rear axle.
4. A fire extinguisher must be securely mounted within the driver's reach.
5. Two-way communication using racing radios is permitted.

Driver's Seat

1. A high-back aluminum racing seat is mandatory. The seat must be bolted to a steel frame connected to the roll cage.

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2. The seat must be secured using six ⅜-inch Grade 8 bolts with 2-inch washers.
3. One bolt must be located at each corner of the seat, 2 to 3 inches inward from the outside edge.

Exhaust

1. Exhaust manifolds and the intake manifold must remain stock. Dorman-brand replacements are permitted.
2. Beyea Muffler MUF3-NTD or Glasspack mufflers are permitted.
3. Exhaust must exit behind the driver or at the rear of the car.
4. Maximum exhaust pipe diameter is 2½ inches.

Fuel System

FUEL TANK / FUEL CELL

1. The stock OEM fuel tank is permitted.
2. An optional fuel cell is permitted, provided it meets the following requirements.
3. The fuel cell must be enclosed in a steel case at least 18-gauge thick and contain fuel cell foam.
4. An “X” brace made from square tubing measuring at least 1 inch × 1 inch with a ⅛-inch wall thickness is required underneath the fuel cell.
5. The fuel cell must be secured with four steel straps, each at least 1 inch wide × ⅛-inch thick. Two straps must run front to rear, and two must run left to right. Straps must be secured using bolts at least ⅜-inch in diameter, with large washers or ⅛-inch steel backing plates on the underside.
6. The fuel cell must have a flapper/rollover valve on both the fill and vent.

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7. A fuel shutoff valve is required for both the stock OEM fuel tank and an optional fuel cell. Its handle must be located inside the car and clearly marked.
8. Fuel lines are not permitted inside the driver's compartment, whether using the stock OEM fuel tank or an optional fuel cell.
9. The fuel cell must not be mounted lower than the frame rails.

Interior and Driver's Compartment

1. All holes in the driver's compartment must be covered with sheet metal.
2. No exposed holes or sharp edges are permitted.
3. All interior trim and airbags must be removed. The dashboard may remain and may be covered with sheet metal. No sharp edges are permitted anywhere in the driver's compartment.

Rear End

1. Factory limited-slip differentials are permitted.
2. Only factory rear end housing permitted
3. Welded spider gears are permitted.
4. Mini spools are permitted.

Roll Cage

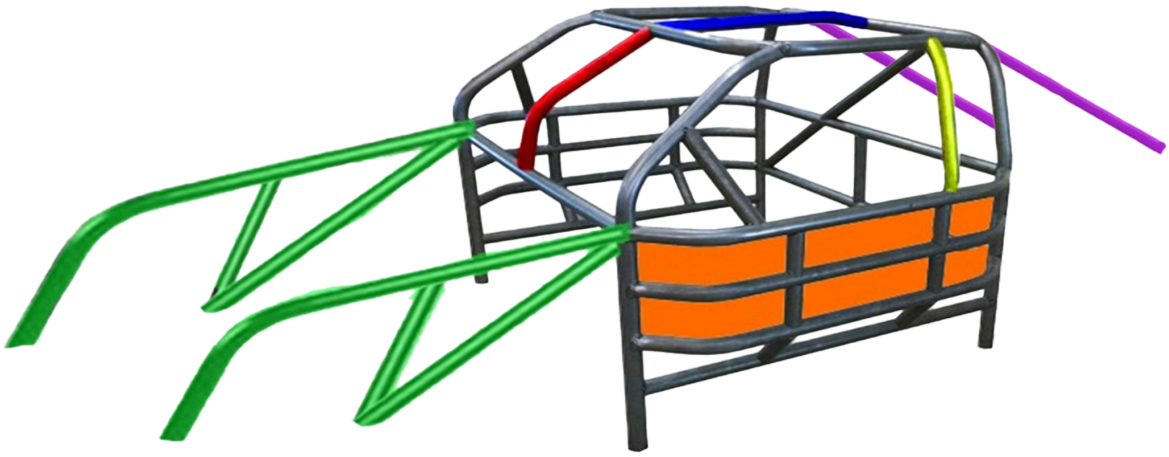
1. A roll cage is required, with a maximum of six mounting points. Optional front bars are permitted as outlined in Rule 10. Offset cages are not permitted.
2. Roll cage tubing must be 1¾-inch diameter × .095-inch wall thickness round steel tubing, except where otherwise specified. The roll cage must be attached to the top of the chassis on both sides.

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3. A rear vertical main hoop must be positioned behind and above the driver's head and connected to the left and right front roll cage legs by a roof hoop. A crossbar must connect the left and right sides of the main hoop at seat height. A second crossbar must extend across the floor pan as low as possible.
4. The front roll cage legs must follow the contour of the windshield posts and cowl. A dashboard bar must connect the left and right front roll cage legs at dashboard height.
5. A minimum of four door bars on the driver's side and three door bars on the passenger side is required. Driver's side door bars must be bent outward into the door panels. Steel plating at least .090-inch thick is required on the driver's side door bars.
6. A Newman bar made from tubing at least 1½-inch diameter × .083-inch wall thickness must be welded diagonally or perpendicular between the main hoop and the halo.
7. An Earnhardt bar made from tubing at least 1 ½-inch diameter × .083-inch wall thickness must be welded perpendicular between the halo and the dashboard bar.
8. A brain bar is required and must be padded.
9. Rear down bars are required and must not extend beyond the rear axle.
10. The following optional front bars are permitted:
    - Two bars made from 1-¾-inch diameter × .095-inch wall thickness tubing may extend from the main cage's front down bars, through the firewall, to the frame rails in front of the upper control arms.
    - Two additional bars of the same tubing dimensions may extend from the main cage to the frame rails between the radiator support and the control arms.

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11. Full hoops are not permitted. These are the only bars permitted forward of the firewall. No additional reinforcement is permitted in front of the radiator support.



1. Cage rules illustrated
    a. Plating- **Orange**
    b. Newman Bar- **Blue**
    c. Earnhardt Bar- **Red**
    d. Brain Bar- **Yellow**
    e. Front Bars- **Green**
    f. Rear Down bars to leaf spring- **Purple**

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Steering Column

1. The steering column must remain stock.
2. The lock plate must be removed from the OEM steering column.
3. A metal-to-metal quick-release steering hub is mandatory. Aftermarket racing steering wheels are permitted. The center of every steering wheel must be padded.

Pedals

1. Stock pedals must be retained in their stock location.

Suspension and Brakes

1. Minimum ride height is 5 inches.
2. Suspension and steering parts must remain completely stock. No modifications are permitted. Urethane bushings are permitted.
3. Steering and suspension components must not be reinforced in any way.
4. Heavy-duty, non-adjustable shocks or struts using stock mounts are permitted. Springs must mount in the factory mounts.

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5. Cutting, heating, altering, or modifying any other suspension parts is not permitted.
6. Springs must have a minimum inside diameter of 5 inches. Adjustable spring cups are permitted.
7. Front spindles must be connected to the frame using an approved tether. The end of the cable with the large eye must wrap around the frame and pass through the smaller eye. The large eye must loop over the upper portion of the spindle.
8. Only OEM brakes are permitted. Brake proportioning must remain stock. Pedals must remain in their stock location. Spacers or extensions are not permitted.

Transmission

1. The transmission must remain stock.

Vehicle Numbers and Lettering

1. All car numbers must be registered with and approved by Riverhead Raceway.
2. Door numbers and all lettering must be professionally done. Aerosol paint and tape are not permitted.
3. Numbers must clearly contrast with the vehicle's primary color.
4. Roof numbers must be oriented so they are readable from the scoring tower.

Weight Rules

1. Rear weight must not exceed 50% with the driver in the car.
2. Minimum total weight is 3,100 pounds with the driver in the car.
3. All lead ballast must be painted white and clearly marked with the car number.

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4. All ballast must be securely mounted within the vehicle's wheelbase using Grade 8 bolts at least ⅜-inch in diameter and washers at least 2 inches in diameter.

Tire Rules

1. Only all-season passenger-vehicle tires are permitted.
2. No race or directional tires.
3. Approved tire sizes are limited to:
   - 235/55R17
   - 225/60R16
   - 215/70R15
4. All four tires must be the same approved size.
5. Each tire must carry a manufacturer treadwear rating of 350 or higher.
6. Only stock-production steel wheels are permitted.

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