

## **CAPITAL CITY SPEEDWAY GENERAL RULES - 2010**

As a participant/supporter of a race team, you are considered a “representative of the track” while on the property during any speedway related activities (i.e.—race night, sponsorship gatherings, at the bar, the restaurant, and in the casino). Capital City Speedway is pleased that you have chosen to be a part of its organization. Without you, there is no show; without the track there is no show. Each part needs to work with the other to make the track as successful as possible.

Please review the General Rules section. It is the responsibility of each individual to familiarize themselves with the code and conduct that is considered standard at all Capital City Speedway events.

The following rules and regulations are a “Handbook” for the conduct of the sport of automobile racing. They are in no way a guarantee against injury or death to a participant, spectator or official.

**NOTE: The running order for each night will vary – please check the daily schedule for each day’s event.**

### **General Conduct:**

1. Alcohol is to be consumed only in designated areas for liability reasons; Those who wish to consume alcohol at the track are welcome to do so responsibly at the beer garden. *No racers or crew members are to consume any alcohol before or during racing.* NO ALCOHOL IN THE PITS. Thank you in advance for your cooperation.
2. All illegal drug use is prohibited in any area.
3. Prior to entering the Pit Area, an industry standard, liability release form must be signed by all persons. Any person under the age of eighteen (18) that enters the Pit Area must have an UNDER AGE WAIVER completed by a family member and/or guardian. Waivers can be obtained from Capital City Speedway upon request as well as upon entry to the speedway.
4. All injuries occurring on Capital City Speedway property must be reported to Capital City officials immediately.
5. Any persons who participate in an act or actions deemed detrimental to motor sports or to Capital City Speedway is subject to a fine and/or other penalties.
6. Any public use of profane or offensive language during any Capital City Event may result in a fine and/or penalty.
7. Any persons who sign a Capital City Speedway release sheet for another individual is subject to \$100.00 fine and/or other penalties.
8. Any persons who assault or threaten a Capital City Speedway Official or persons serving under the direction of a Capital City Official are subject to a \$500.00 fine and/or other

penalties.

9. Any persons who participate in a Capital City Speedway Event under the influence of alcohol or any other illegal substance are subject to disqualification, a \$500.00 fine and/or other penalties.
10. Any persons who participate in fighting at a Capital City Speedway Event are subject to a \$5000.00 fine and/or other penalties.
11. Any competitor or team member entering another team's pit area in a threatening manner will be assessed a \$50.00 fine.
- 12. ANY SUSPENSIONS ISSUED BY OTHER TRACKS (including but not limited to Mosport, Peterborough, Barrie, Flamboro, Varney, Delaware, Kawartha, Sunset Speedways) WILL FOLLOW YOU TO WHEREVER YOU COMPETE. TIME OFF AT ONE TRACK EQUALS TIME OFF AT ALL TRACKS.**

### **Inspection Procedures:**

1. Prior to practice and/or competition on the racetrack, all cars must pass through technical inspection. All cars are subject to inspection by Capital City Speedway at the time and in the manner determined by Capital City Speedway Officials. All decisions by Capital City Speedway and its Officials regarding the timing and manner of inspection, as well as which cars are inspected and the legality of cars, are final and not open for appeal.
2. Failure to comply with the technical inspector's request to facilitate inspection of the car may subject the competitor, car owner and any members of the team to disciplinary action.
3. If the Capital City Speedway Chief Technical Inspector determines prior to the race that the car does not meet the applicable specifications, the car will not be allowed to compete unless, at the discretion of the Chief Technical Inspector, the deficiency will not affect safety, cannot be corrected in time for qualifying heats, and will not provide the competitor with an advantage over the other competitors, and is so insubstantial as not to warrant disqualification. If the official permits the car to compete, the competitor will be informed of the deficiency, and the car will be prohibited from competing in any future events until it has been corrected.
4. Capital City Speedway has the right to confiscate any part or equipment that is deemed illegal by the Chief Technical Inspector. Failure to surrender the part or equipment may subject the driver, car owner, and crew to disciplinary action and/or a fine.
5. Only those persons approved by the Capital City Speedway Technical committee may be admitted to the inspection area.
6. After qualifying (Heat Races and/or Time Trials), all cars will proceed directly to the Tech Area for inspection at the discretion of the Chief Technical Inspector.
7. After Feature Race:
  - a) Top 3 finishers will proceed directly from Victory Lane to the designated Tech Area.

- Additional competitors may also be directed to the Tech Area for inspection.
- b) Once a competitor has been instructed to proceed to the Tech Area, they must proceed there directly and no one may touch the car or its components en route.
  - c) While in the Tech Area, all competitors must take whatever steps are requested by Capital City Speedway Officials, including tear down of the car, to facilitate the analysis of the car. Capital City Speedway has the right to confiscate any part for additional inspection or one that fails to meet Capital City Speedway Tech specifications during an event.
- 8) All cars are subject to inspection by Capital City Speedway at any time and in a manner that is deemed necessary by the Chief Technical Inspector and/or Technical Staff. All decisions by Capital City Speedway Officials regarding such inspections are final.
- 9) Failure to comply with any of the inspection procedures may result in a penalty and/or fine.
- 10) No car shall practice or compete on the track until all safety equipment, safety vehicles and safety personnel are in their respective positions.
- 11) Only the driver is allowed in the race car while on the track surface. No passengers allowed in or on the race car at any time.

### **Flags:**

It is the responsibility of all competitors to understand the meaning of each flag.

**GREEN FLAG**—The GREEN FLAG indicates the start of the race. When the initial GREEN FLAG is given in each event by the Official Starter, cars must remain in their starting positions on the race track until they have passed the Start/Finish Line. Violators may be penalized. In all RE-STARTS, racing begins as soon as the GREEN FLAG is thrown.

**YELLOW FLAG**—The YELLOW FLAG signifies caution is necessary on the racetrack. Once the YELLOW FLAG is displayed, all cars will slow immediately, hold their position and move into single file behind the lead car. The caution vehicle will then enter the track and will be positioned in front of the lead car. If 2 cars are running side by side, the inside car shall take preference. Racing to the YELLOW FLAG is prohibited. Any cars passing other cars under YELLOW FLAG conditions may be penalized. Any cars returning to the racetrack from the pits under YELLOW FLAG conditions must wait for and take position at the rear of the field.

**RED FLAG**—The RED FLAG means the race must be stopped immediately. Cars will remain stopped until the track is returned to YELLOW FLAG conditions, or assigned to move. No repairs of any nature or re-fuelling will be permitted when the race is halted because of a RED FLAG. Any driver failing to obey a RED FLAG at any time, shall be subject to disqualification and/or a fine. On track assistance by official vehicles under the RED FLAG will result in no time penalties being imposed.

**BLACK FLAG**—The BLACK FLAG means the car must proceed to the Pits immediately and

report to a Capital City Speedway Official at the car's Pit Area. The car may be able to return to the race at the discretion of a Capital City Speedway Official. Once the BLACK FLAG is displayed to a car, the driver has 3 laps to report to their pit area. Failure to do so will result in the car no longer being scored and/or other penalties.

**PASSING FLAG**—The PASSING FLAG (blue with a diagonal orange stripe) signifies that faster traffic is over taking cars being signalled and that cars being given this flag should yield to the inside groove of the speedway to allow over-taking traffic through.

**WHITE FLAG**—The WHITE FLAG indicates to a driver that he is entering the final lap of the race. No car may receive any intentional assistance (example: one car pushing another) after said car has received the WHITE FLAG.

**CHECKERED FLAG**—When the CHECKERED FLAG is displayed, the race is finished. The first car to complete the required distance will be the winner. Once the CHECKERED FLAG has been shown to the leader, the rest of the cars will receive the CHECKERED FLAG. Finishing positions will be determined by the most distance traveled in the least amount of time.

**SPECIAL FLAGS**—SPECIAL FLAGS may be used at the discretion of the Starter and the Officials, but must be fully explained to all competitors before the race event (example: "Pit Road Open/Closed").

Final disposition of any FLAG dispute will be decided by the track official in charge.

### **Race Procedures:**

- 1) ***All drivers in all classes must wear a Raceiver during their race.***
- 2) Decision of Capital City Speedway Officials on Race Procedures will be final, and there shall be no appeal or protest thereof. Interpretation of Race Procedures and Rules include, but are not limited to, the Line-Up of cars, the Start of the Race, the Control of the Cars, decisions to Stop or Delay a race, the positioning of cars on Re-Starts, the assessment of Lap and Time Penalties, along with the interpretation of technical rulings regarding a car's legality for competition.
- 3) At all events, the driver assumes responsibility for the actions of his/her pit crew, including any unpaid fines for violation of conduct. Unpaid fines and/or other related charges may be deducted from driver purse or point fund monies.
- 4) Lap or time penalties will be executed by bringing the violator to the Pits immediately, and a penalty will be imposed. These infractions include, but are not limited to, passing the pace car, running the Stop Paddle at the entrance of the race track and Pit Road infractions. Final lap scoring corrections are permitted prior to posting of the official race report.
- 5) No driver may qualify more than one car in Qualifying Heats or Time Trials.
- 6) In the event that any car does not appear for the Qualifying Heat to which it is assigned,

it will forfeit that Heat and start last in its next assigned Qualifying Heat.

- 7) Any car not making the original line-up for the Feature Event on time will take position at the rear of the field under Capital City Speedway procedure policy or at the discretion of the Official in charge.
- 8) After the Feature Line-Up is posted, and the Pace Car starts the parade lap, if a car does not fire or pulls off the track, the field will adjust on the next lap by filling vacancies by that line moving up.
- 9) Preliminary laps may be set at the discretion of the Starter, who will then start the race.
- 10) Any car missing the initial GREEN FLAG of any race will not be allowed to enter the race.
- 11) Cars must take Starting flag in the Feature race to receive prize money.
- 12) Any cars involved in causing a YELLOW FLAG condition, may be placed at the rear of the field. The Race Director shall have total authority to determine which cars were involved and will be placed at the rear.
- 13) Any competitor who intentionally causes or attempts to cause a YELLOW FLAG by stopping, spinning out or other action will receive a one lap penalty.
- 14) When racing is stopped before the completion of one lap, there shall be a complete re-start in the original starting positions with the exceptions of the cars (if any) causing the caution. Those cars will re-start at the rear.
- 15) The initial start of all race events will be double file. Any re-starts there after, the field will line up double file as they fall. Lapped cars will move to the rear of the field.
- 16) A grid for all feature line-ups will be posted with in 15 minutes of the completion of the final qualifying event. All teams are responsible to have cars gridded for main events at the posted time on black board. If not in stationary grid position, then starting position will be on a first come, first serve basis at the rear of the starting field.
- 17) The final 5 laps will be run under GREEN FLAG condition (does not have to be 5 consecutive laps).
- 18) Driver must register and present their car for inspection prior to the GREEN FLAG of the first event of the race meet. From that point, only that registered car may be used. Another qualified car may be used for main events only.
- 19) All races shall be run until the leader covers the advertised distance. Should any circumstances prevent the completion of the advertised distance, the race shall be considered officially completed after the half-way mark has been reached, provided circumstances make it impossible to continue the race within a reasonable time period after it has been stopped.
- 20) For scoring purposes no two cars shall carry the same number. All numbers must be clearly distinguishable between one another on competing cars. All numbers must be in

bold size and in contrasting colour. Capital City Speedway will reserve the right to issue numbers and or distinguishing letters (eg. X) for special event races that include non-regular cars. Duplicate numbers will be dealt with by Pit Stewards for heat races and by scoring officials for feature events. Highest qualified car will retain original number for feature event in the event of a duplication.

### **DRIVER ELIGIBILITY**

- 21) Capital City Speedway will allow the use of a maximum of two drivers to earn points throughout the season in the following divisions: Late Model, Limited Late Model and Thunder Car drivers may register one other driver to compete in their place due to scheduling conflicts and/or family emergencies.
- 22) All event points and money earned will be awarded and paid to the registered driver. A second driver may compete up to a maximum of three (3) times during the season in order to earn points towards the registered driver's standings.
- 23) All occasional drivers must be approved by Capital City Speedway officials. Capital City Speedway will reserve the right to determine that their racing experience is suitable, based upon the class in which they will compete as a substitute.

### **MINI STOCK DRIVER ELIGIBILITY**

- 24) The Mini Stock division only, will allow the use of up to two (2) drivers per car, to earn points towards the season long championship.
- 25) Neither eligible driver shall have any racing experience that exceeds that of the Mini Stock division. One or both drivers may be rookies.
- 26) If at any time Capital City Speedway determines that a driver's eligibility exceeds the intentions of this rule, all points earned up to the time of infraction, will be lost.

## **LATE MODEL RULES 2010**

### **OPTION 1**

#### **ACT LEGAL LATE MODEL WITH ZZ4 1ST EDITION GM# 24502609 SPEC MOTOR**

##### **Frame, Chassis & Cages:**

- 1) Tubular frames on all models main frame rail members shall have a minimum of:  
10 inch perimeter tubing AND .095 wall thickness  
12 inch perimeter tubing  
16 inch perimeter tubing .083 wall thickness
- 2) Sections extending such as front and rear clips must be a minimum of: 10 inches in perimeter AND have a minimum of .083 wall thickness and extend 10 inches minimum beyond wheel base. Rear clip must extend beyond fuel cell area.
- 3) Main frame rails must be no less than 28 inches outside of rail to centre line of chassis.
- 4) Main frame rails and clips may not be pierced or drilled or otherwise altered for the purpose of reducing weight.
- 5) Frame and roll cage must be perimeter designed. Maximum off-set allowed is 1 inch from centre line of tread width. All cars required to have a 4 point roll cage constructed of a minimum 1 3/4" diameter, .095 wall tubing. Roll cage must be symmetrical in all directions. Off-set/straight-rail style cars may be upgraded to perimeter style, but must include specified wall thickness on main frame rail, must have complete right side door X ing, upper cage halo must be extended to the right, and main cage supports from frame rail must tie into halo at top of cage (no throw away/mickey mouse/bogus alterations accepted). Subject to the approval of Capital City's Technical Inspector.
- 6) 4 curved horizontal door bars on the driver's side are required with minimum of 2 vertical bars between each horizontal bar. Minimum height of door bars 22 1/2 inches from bottom of frame rail. Must be constructed of minimum 1 3/4" diameter, .095 wall tubing.
- 7) Minimum length of door bars 42 inches.
- 8) X bars on right side of cage will be allowed.
- 9) Total height of roll cage to be 40 1/2 inches from bottom of frame rail. Halo to be no less than 1 inch lower. Width of halo to be no less than 46 inches from outside to outside of tubing.
- 10) Dash bar required, along with an "X" type member across and behind driver.
- 11) One piece of tubing running perpendicular between halo in top of cage, centred, is required.
- 12) A so called, "Petty Bar" must be present to support right front corner of halo from collapsing in event of a roll over.



- 13) Left leg protection bar must be installed between roll cage and left front frame rail.
- 14) All main cage structure must be constructed of minimum 1 3/4 tubing .095 wall thickness. Material must be D.O.M. or seamless steel.
- 15) Factory production, stock width front frame clip or a fabricated clip (minimum 2x3 .083 tube) are allowed.
- 16) Under-slung style rear clip is allowed.

### **Interior:**

- 1) Interior of car must be completely enclosed in respect to engine compartment, track surface, tires and rear fuel cell compartment. Interior panels must be a minimum of .040 thickness aluminum or steel.
- 2) 20-gauge sheet metal is mandatory 18 inches high at foot firewall, 9 inches high along driver's tunnel and 18 inches high behind seat.
- 3) Right side interior panel may begin beside driver's seat and extend on an angle to the inner edge of the top of the passenger door panel.
- 4) A full width dash is required in all cars. Vertical surface of dash must project in a single plane across car. Top horizontal plane of the dash should carry forward to the firewall and enclose entire area beneath windshield.
- 5) Only 1 rear view mirror is allowed.
- 6) Roll bar padding is mandatory.

### **Eligible Bodies:**

- 1) ABC/Template style body is mandatory.
- 2) Bodies that are not ABC are to be template style (eg. Five Star, ARP) and must meet the following criteria. Bodies must be after market made of steel, aluminum or fibreglass. Rubber front and rear bumper covers are recommended.
- 3) Approved 5 Star/ARP rubber/plastic fenders are permitted.
- 4) **NO CARBON FIBER BODY PANELS ALLOWED.**
  - a) No wedge style, slab side bodies.
  - b) No high performance bodies.
  - c) No DIRT NOSES
- 5) Following Models allowed:
  - a) Dodge Charger/Intrepid
  - b) Ford Fusion/Taurus
  - c) Pontiac Grand Prix
  - d) Chevrolet Monte Carlo/Impala SS
  - e) Toyota Camry



- 6) Bodies must meet Capital City Speedway Tech visual approval. Weight penalties may be imposed at Tech Director's discretion for violations. No mixing and matching of body panels. Only approved bodies will be allowed to compete.
- 7) Rub Rails are allowed. Must be neat in appearance.
- 8) All body panels must be complete in length and width. Overall workmanship shall be a determining factor as to whether a car shall be approved for competition. Specified components' compliance to templates and overall level of workmanship and appearance will be considered by technical inspectors.
- 9) Roof Height will be 47 inches measured from ground to centre of roof 10 inches back from edge of windshield.
- 10) Front nose height shall be no less than 4 inches above ground.
- 11) Rocker panels shall be no less than 4 inches above ground.

***12) All heights will be measured with the driver in the car.***

- 13) Rear spoiler must be made of .090 minimum thickness, smooth aluminum or lexan and be a maximum of 60 inches wide and 5 inches high. If ABC body is not used, the maximum height from ground to top of spoiler will be 39 inches. No side enclosures, no lips, or bends in upper portion of spoiler and must be flush to vertical surfaces of deck lid. Spoilers must be non-adjustable.
- 14) Hood and trunk must be removable or hinged. If hood is removable, must have at least 4 front pins and 2 rear pins. If hinged, minimum of 4 front pins allowed. If trunk is removable, 4 pins are required, 1 at each corner. If hinged, 2 rear pins will be allowed.
- 15) A full dimension windshield is mandatory and must be constructed of 1/8 inch minimum thickness lexan. 2 internal windshield braces spaced at least at 5 inch centres and roughly centred in windshield constructed of minimum 1 inch wide by 1/8 inch thick material are mandatory.
- 16) Models with rear 1/4 windows may have openings covered with securely mounted, solid clear lexan. Rear side windows may have approved air vents. "A" pillar windows not to exceed 6 inches in any direction measured from front of door opening.
- 17) A full dimension rear glass constructed of minimum 1/8 inch thickness lexan is mandatory and must be held securely in place with a minimum of 2 external straps.
- 18) Back window must be securely braced internally to prevent significant bowing or distortion at racing speed.
- 19) Side vent windows will be allowed at the A-Post area only. Vent window will measure no more than 6" in any direction. No other vent type or air deflection devices of any sort will be allowed in door window opening areas.
- 20) A quality paint job is mandatory on all cars with high contrast numbers for legibility, day or night. Bodies must be kept neat and painted at all times. No metallic numbers.

- 21) A minimum 24 inch high, 3 inch stroke number is required on the door area on both sides of the car. A minimum of 30 inch high, 3 inch stroke number is required on top of roof facing the passenger side of car. A block style number on right head light cover and right tail light covered is required. All numbers must be Capital City Speedway registered and/or assigned. Number alterations may be required at any time by Capital City Speedway to avoid duplication.
- 22) If ABC body is used, all heights and measurements must meet criteria laid out in ABC mounting instructions. These will be the dimensions you will be inspected with. ABC body dimensions will vary from those listed above.

### **Heights:**

- 1) Frame heights will be a minimum of 4 inches measured at lowest point of chassis to ground.
- 2) Engine height will be a minimum of 11 inches measured from centre of crankshaft to ground.
- 3) Minimum height of Nose and Rocker Panels shall be no less than 4 inches.
- 4) Minimum height of Roof as measured 10 inches back of windshield shall be no less than 47 inches.
- 5) Maximum height of Rear Spoiler shall be no greater than 39 inches on body configurations not conforming to ABC body rules.
- 6) Fuel cell will maintain a minimum height of 8 inches from ground.
- 7) ***All heights are measured with driver in car.***

### **Suspension, Steering and Brakes:**

- 1) ***All cars will have a minimum wheelbase of 104 1/2 inches*** measured from centre of lower ball joint to centre of rear end housing.
- 2) ***Maximum tread width will be 64 1/2 inches front and rear.***
- 3) Any type of front steering is allowed. Steering box or rack & pinion are allowed. After market steering components are allowed.
- 4) Any type lower control arm assembly allowed.
- 5) Tubular upper control arms of any type are allowed.
- 6) ***One shock, one spring per wheel. Any type spring and shock assembly allowed. Shock brand must be KONI, and the following numbers will be permitted: KON30-7436, KON30-7325, KON30-9436, KON30-9325, KON30-7647***

- 7) Any spindle made of steel allowed. Any removable steering arms must be made of steel.
- 8) Any safety or racing type hubs made of steel or aluminum allowed. 5x5 or wide 5 bolt patterns allowed.
- 9) Any style front sway bar allowed. Must be mounted on main frame rails of front clip and work off of the lower control arms.
- 10) Rear ends must have floating type bearing and hub such as quick change or Ford floater. Axle tubes may be steel or aluminum. No cambered rear ends allowed. Rear wheels must be driven with solid flange drive plates. No elastic drive plates allowed.
- 11) Quick change rear ends permitted. Gun-drilled axles are allowed.
- 12) Limited slip or ratchet type differentials of any type are not allowed.
- 13) All running gear drainage plugs must be safety wired.
- 14) NO TITANIUM PARTS ALLOWED.
- 15) Truck arm or 3 point type rear suspension mounting allowed. Rear trailing arms may use rubber bushings and/or heim joints. Upper link pivot with heims or rubber bushings only allowed. No fifth coils, no Watts linkage, no torque arms and no mechanical devices to transfer weight while car is in motion.
- 16) No Spring rods of any type allowed. No Dual Action upper links allowed.
- 17) Solid tubular pan hard bar only. One bar, 2 adjustable heim joints only.
- 18) Brakes (all 4) must be single piston callipers made of steel and all 4 must be in good working order. Brake rotors must be a minimum of 3/4 inch thick and made of steel. Master cylinders and pedals of any type allowed. No brake re-circulators allowed.

**Gear Rule:**

- 1) There is no gear rule for 2010

**Weight:**

- 1) All weights include driver (no substitutes).
- 2) ***All cars using CAPITAL CITY / OTTAWA /ACT / CASTROL Series CRATE MOTOR option will be allowed 56% left side maximum and will maintain a minimum weight of 2850 lbs.***
- 3) Ballast weight must be securely attached to main frame rail or major cross member

structure. No lead shot or liquid type ballast permitted. Ballast to be in blocks of no less than 5 pounds.

- 4) There will be NO spent fuel allowance for regular heat races and feature events.
- 5) ***INVITATIONAL EVENTS of 100 laps or greater will give a spent fuel allowance of 75 lbs.***
- 6) Track scales will be considered final.

### **Fuel Cells:**

- 1) Fuel cells mandatory and must be approved by Technical Inspector. Minimum 15 gallon capacity required; maximum 22 gallon. It is mandatory that the fuel cell be enclosed in a 20 gauge, welded steel box with a bolt on cover, constructed of 20 gauge steel. Fuel cell must be protected in back by .095, 1 3/4 O.D. tubing. Check valve vent is required on all fuel cells.
- 2) Fender mounted fuel filler (if used) must face to the inside of the track.
- 3) Fuel pump must be mechanical. No electric fuel pumps.
- 4) Any fuel line passing through interior must be inside steel tubing. No plastic or glass fuel filters.
- 5) All cars must have a fully operational fuel shut off valve mounted in the main fuel line.
- 6) Fuel shut off must be accessible to both driver and safety crews.

### **Tires and Wheels:**

- 1) All wheels must be after market racing type wheels made of steel. Wheels will be a maximum width of 8 inches, bead to bead.
- 2) Specified track tire mandatory on all 4 wheels. Tires are to be purchased through Kenyon Racing Products.
- 3) **Two (2) tire per night rule will be in effect;** these tires can be installed as late as prior to the start of the second heat race. This tire rule will be under review as the season progresses. The teams will start the season with an 8-tire pool and then will be allowed to purchase 2 tires per night. Each team will be allowed to purchase more tires on larger feature race nights or weekends.
- 4) A durometer rule will be in effect regarding minimum tire hardness.
- 5) Tire relief valves are allowed.

### **Transmissions, Clutches and Drive Shafts:**

- 1) CAPITAL CITY / OTTAWA / ACT / CASTROL Series CRATE MOTOR OPTION may use the following clutch package: Any Aluminum bell housing and the following Quarter Master part # QUA298103A 7 1/4 " 2 disc clutch assembly.
- 2) Starters must be operational and mounted in stock location. No reverse mount starters allowed.
- 3) Transmission must be a stock OEM type standard with all gears working. Automatics will be allowed with approval from Tech Director.
- 4) Shifter may be any type.
- 5) Drive shafts must be steel and painted white.
- 6) Two drive shaft loops to fully enclose drive shaft are mandatory. Loops must be no less than 1 inch wide and 1/8 inch thick and must be fastened to chassis front and rear.

### **Engines and Exhaust:**

#### **CAPITAL CITY / OTTAWA / ACT / CASTROL Series SPEC MOTOR # GM 24502609**

- 1) This engine must be purchased through the above mentioned tracks or series.
- 2) Engine make and body make may be interchanged.
- 3) Centerline of engine must remain within 1/2" of centerline of tread width.
- 4) Engine must be mounted with foremost spark plug even or ahead of a line projected across upper ball joints.
- 5) Engine height will be a minimum of 11 inches as measured from centre of crankshaft to ground (with-out driver in car).
- 6) ***CARBEURATOR: 500 CFM 2BBL Holley #4412. Carb adapter and gasket combined thickness must not exceed 1.25 inches. Carb will be subject to GO-NO GO gauge inspection, top and bottom. The only carb spacer approved for this motor is the Canton # 85060***
- 7) Spec Motor may run any size header. Headers may be stepped. 180 Headers, Tri-Y, and HOWE Iron Lung Headers are not allowed. Crate motor may run 2 into 1 exhaust muffler system such as HOWE type 5 inch muffler.
- 8) Crate motor may run an aluminum bell housing.
- 9) Mufflers are mandatory.

- 10) Exhaust must exit behind driver outside the body or may be turned down to exit under the car.
- 11) MSD ignition is allowed but must be used with OEM HEI Distributor. ***MSD distributor is not allowed.***
- 12) Tampering or changing of advancement weights or springs in OEM distributor is not allowed.
- 13) Please contact speedway for information on all crate motors regarding required part number, allowable components, purchase of, sealing of, freshening of and availability.
- 14) If your motor (built or spec) has been properly sealed by the party approved by Capital City Speedway, American-Canadian Tour or the Quebec LMS Series CASTROL, and that documentation is verified, you will be legal to compete and not be subject to tear down. This does not make you exempt from any inspection that can be performed with out breaking seals. Nor will it exempt competitors from exchange programs or engine dyno programs deemed necessary by Capital City Speedway
- 15) ***ANY INCONSITENCIES FOUND WITHIN ANY CRATE MOTOR APPLICATIONS WILL RESULT IN FORFEIT OF ALL POINTS EARNED TO THAT POINT OF SEASON, FORFIET OF MONIES AND POINTS EARNED IN EVENT, AND DISQUALIFICATION FOR REMAINDER OF THE SEASON. CRATE MOTOR VIOLATIONS WILL NOT BE TOLERATED!!!***

**Safety Requirements:**

- 1) All drivers must wear approved safety helmets (minimum Snell 2000 standard).
- 2) Fire retardant suit is mandatory. Fire retardant gloves are mandatory and fire retardant shoes are highly recommended.
- 3) Aluminum racing seat mandatory.
- 4) Driver's seat must appear as close to stock position as possible. Seat must be securely fastened to roll cage and frame members.
- 5) Quick release aviation type, minimum 3 inch safety belts required. Shoulder harness must be fastened to roll cage. Belts may be no older than 3 years prior to date of competition.
- 6) An approved driver's window net is mandatory.
- 7) It is mandatory that a 2½ pound fire extinguisher with gauge, aluminum head and steel mounting bracket and be attached to the car's interior on driver's right side.
- 8) Extinguisher must be with in reach of driver and accessible to safety crews from both sides. On board fire system highly recommended.

**OPTION 2**  
**for**  
**BUILT MOTORS & 400 CRATES**

**Items listed in this section are specific to these motor combinations. For any items not listed here, refer back to OPTION 1.**

**Frame, Chassis & Cages:**

- 1) REFER TO OPTION 1

**Interior:**

- 1) REFER TO OPTION 1

**Eligible Bodies:**

- 1) REFER TO OPTION 1

**Heights:**

- 1) REFER TO OPTION 1

**Suspension, Steering and Brakes:**

- 1) REFER TO OPTION 1

**Gear Rule:**

- 1) There is no gear rule for 2010.

**Weight:**

- 1) All weights include driver (no substitutes).
- 2) ***All cars using a "Built Motor" with a compression ratio up to 10:1 will weigh 8.25 pounds per cubic inch with a minimum weight of 2975 lbs. These cars will be allowed 55% left side maximum.***
- 3) ***Any car with a compression ratio of 10:1 to a maximum to 10.9:1 will carry an extra 50 pounds (3025 lbs.) These cars will be allowed 55% left side maximum.***
- 4) ***All cars using Flamboro / Delaware (88958604) 400 Fast Burn CRATE MOTOR option will maintain a minimum total weight of 2975 lbs. These cars will be allowed 55% left side maximum***
- 5) Ballast weight must be securely attached to main frame rail or major cross member structure. No lead shot or liquid type ballast permitted. Ballast to be in blocks of no less



than 5 pounds.

- 6) There will be NO spent fuel allowance for regular heat races and feature events.
- 7) ***INVITATIONAL EVENTS of 100 laps or greater will give a spent fuel allowance of 75 lbs.***
- 8) Track scales will be considered final.

**Fuel Cells:**

- 1) REFER TO OPTION 1

**Tires and Wheels:**

- 1) REFER TO OPTION 1

**Transmissions, Clutches & Driveshafts:**

- 1) All “BUILT MOTORS” may use a stock type replacement Clutch and Flywheel (Corvette Style or SVO flywheel with minimum weight of 14 pounds). No 10, 000 RPM style. Steel shatter-proof bell housing is mandatory. Clutch and pressure plate must be a minimum 10 inch diameter. “Stock Type” pressure plate and clutch disc required. “BUILT MOTOR” may also utilize a multidisc clutch option (may be no smaller than 5 1/2 inches) and carry a 25 lbs penalty.
- 2) Steel bell housing must be used.
- 3) FLAMBORO /DELAWARE (88958604) CRATE MOTOR OPTION may use any multi-disc clutch assembly not smaller than 5 1/2” and carry a 25 lbs penalty. Eg. Quarter Master, Tilton.
- 4) Steel bell housing must be used.
- 5) Starters must be operational and mounted in stock location. No reverse mount starters allowed.
- 6) Transmission must be a stock OEM type standard with all gears working. Automatics will be allowed with approval from Tech Director.
- 7) Shifter may be any type.
- 8) Drive shafts must be steel and painted white.
- 9) Two drive shaft loops to fully enclose drive shaft are mandatory. Loops must be no less than 1 inch wide and 1/8 inch thick and must be fastened to chassis front and rear.

## **Engines and Exhaust:**

FLAMBORO / DELAWARE CRATE MOTOR # GM 88958604

- 1) This engine may be purchased through any dealership or supplier available, and must retain OEM crate motor "twist off bolts" to verify engine has not been opened up with out approval of tracks or series.
- 2) Engine make and body make may be interchanged.
- 3) Engine must be mounted with foremost spark plug even or ahead of a line projected across upper ball joints.
- 4) Centerline of engine must remain within 1/2" of centerline of tread width.
- 5) Engine height will be a minimum of 11 inches as measured from centre of crankshaft to ground.

### ***"BUILT MOTOR OPTION"***

- 6) Maximum cubic inch displacement allowed: GM 350, Ford 351, and Chrysler 360.  
Maximum overbore allowed .060.
- 7) Maximum compression ratio 10.5 to 10.9:1.
- 8) Bore and Stroke must be factory spec (example: 350 Chev-3.48 stroke x 4 inch bore).  
No stroked or destroked motors.
- 9) Crankshaft: Stock or after market crankshafts will be allowed with a minimum weight of 48 pounds. No knife-edging or bull nosing of crank.
- 10) No dome pistons. Only flat top or dished pistons are allowed. Pistons cannot protrude above the deck of the block.
- 11) No aluminum connecting rods or engine blocks.
- 12) Any hydraulic or mechanical flat tappet camshafts are allowed. No mushroom or roller camshafts. Must maintain stock diameter lifter and lifter bore for that make and model of engine. No gear drive or belt drive systems.
- 13) Roller rockers allowed. Stud girdles allowed. No shaft rockers on Ford or GM.
- 14) Cast Iron Cylinder Heads Only.
- 15) No polishing, coating or porting of heads.
- 16) No angle plug heads except Ford and Chrysler. DART heads as specified are allowed.  
Any machine work must be concentric to the valve stem. No relieving about or below the head of the valves.

17) No un-shrouding of the valve pocket. No IRON EAGLE, BOW TIE or VORTEC heads with casting number 292 or W Series heads. SVO head part number 6059L302-GT40 allowed with maximum valve size: intake 1.94, exhaust 1.60. Head dimensions must be stock as produced.

MOPAR  
a) # P4529269  
b) # P5249574 (Casting # 4448308 unported) Will be allowed.

DART HEADS  
a) Sportsman 2 (straight plug only) casting # 1-307  
b) #4350 casting # 1-052  
c) #4360 casting # 1-052  
d) #4266B and #4267B  
e) #5302B casting # 1-056 Ford Windsor  
f) #5303 casting # 1-056 Ford Windsor Jr. with maximum valve size of 2.02

18) The maximum valve sizes as measured across the face of the valve are as follow:

<u>Model</u>	<u>Intake</u>	<u>Exhaust</u>
1. GM	2.02	1.65
2. Ford (Windsor)	1.94	1.65
3. Chrysler	2.02	1.65

19) Screw-in studs, guide plates, stud girdles, and 3 angle valve jobs are allowed. No titanium valves. Valves must be identical in appearance and construction as OEM valves. Stem diameter must have a minimum of 11/32 inch (.343). Stem may be undercut to a minimum diameter of 5/16 inch (.312) from the valve head to the bottom of the valve guide. Titanium retainers and keepers are allowed.

20) All intake manifolds must be Edelbrock Performer Series. These manifolds must remain as manufactured. No port matching or flow work permitted. Older design manifolds with same part number are not permitted. Carburetor holes in spacer must be located in centre of intake holes. Edelbrock Part #'s: GM # 2102 Chrysler # 2176 Ford #2750 or #2181

21) CARBEURATOR: 500 CFM 2BBL Holley #4412. Carb adapter and gasket combined thickness must not exceed 1.25 inches. Carb will be subject to GO-NO GO guage inspection, top and bottom.

22) Headers allowed.

- a) No stepped headers
- b) Header tubing must be a maximum of 1 5/8 inch O.D.
- c) No 180 degree headers allowed. No Iron Lung headers.
- d) Equalizer pipe is allowed.

23) Mufflers are mandatory. Magnaflow # 11219 is recommended.

24) 2 into 1 style exhaust system is allowed with maximum 5 inch muffler. Eg. HOWE Style.

25) Exhaust must exit behind driver outside the body or maybe turned down to exit under the car.

26) No magnetos allowed.

- 27) Electrical system must have a main SHUT OFF SWITCH mounted within reach of the driver and easily accessible for safety crews.
- 28) No external oil pumps allowed.

**“604 CRATE MOTOR OPTIONS”**

**\*\*\*Exceptions not outlined above\*\*\***

- 29) FLAMBORO /DELAWARE (88958604) 400 Fast Burn
- 30) Headers may have a primary tube no bigger than 1<sup>3</sup>/<sub>4</sub> diameter.
- 31) Headers may be stepped. Maximum size of collector must not be greater than 3 inches. 180 Headers, Tri-Y, and HOWE Iron Lung Headers are not allowed. Crate motor may run 2 into 1 exhaust muffler system such as HOWE type 5 inch muffler.
- 32) Crate motor must run 500 cfm Holley two barrel carb. As approved by Capital City Speedway Technical Officials. Carb will be subject to GO-NO Go gauges top and bottom.**
- 33) Crate motor must run a steel bell housing.

**Safety Requirements:**

- 1) REFER TO OPTION 1

**OPTION 3  
ALLOWANCES FOR FORMER  
LIMITED LATE MODEL**

***Items listed in this section are specific to these style cars and motor combinations. For any items not listed here, refer back to OPTION 1.***

**Frame, Chassis and Cages:**

- 1) REFER TO OPTION 1 for items in sections 1 and in sections 3-19
- 2) This option is eligible to cars carrying a front frame section constructed of 2 x 4 tubing with an .095 wall thickness, or a car carrying a stock factory production front frame section. If stock factory front frame section is used, stock front frame rails must extend from in front of steering box rearward and attach to main frame rails.

**Eligible Bodies:**

- 1) REFER TO OPTION 1

### **Heights:**

- 1) REFER TO OPTION 1

### **Suspension, Steering and Brakes:**

- 1) ***All cars will have a minimum wheelbase of 104 1/2 inches*** measured from centre of lower ball joint to centre of rear end housing.
- 2) ***Maximum tread width will be 66 inches front and rear.***
- 3) No Rack & Pinion steering allowed. Stock type steering box required. After market steering components allowed
- 4) Lower control arms must be stock and mounted in stock location. Lower control arms may be different length side to side to achieve desired camber. Measurement from grease fitting to inner mounting point of control arm must have no more than a 1" variance from stock length in either direction. Inner pivots of lower control arms may be rubber bushing, urethane bushing, or steel mono-ball. Ford lower strut arms may use heim joints.
- 5) Tubular upper control arms are allowed. Control arm must be steel with the exception of the cross shaft, which may be aluminum.
- 6) ***One shock, one spring per wheel. Any type spring and shock assembly allowed. Shock brand must be KONI, and the following numbers will be permitted: KON30-7436, KON30-7325, KON30-9436, KON30-9325, KON30-7647***
- 7) Spindles must be steel and may be fabricated.
- 8) Hubs must be stock type. Heavy Duty hubs are allowed. Front hubs must be steel. Rear hubs may be aluminum. Hubs may be 2 piece hub and rotor assemblies. Wheel studs must be a minimum of 5/8". Hubs may be floater type. 5x5 Hubs only. Wide 5 hubs are not allowed.
- 9) Sway bar must be mounted on bottom side of front clip and work off of the lower control arms.
- 10) Rear ends may have floating type bearing and hub such as Ford 9 inch.
- 11) ***Quick change rear ends may be used.***
- 12) Axle tubes must be steel.
- 13) Gun-drilled axles are allowed.
- 14) Mini spools are allowed.

- 15) Full spools are allowed.
- 16) Spools may be steel or aluminum.
- 17) Ford 9" carrier (differential housing) may be aluminum.
- 18) No cambered rear ends allowed.
- 19) Rear wheels must be driven with solid flange drive plates.
- 20) All running gear drainage plugs must be safety wired.
- 21) NO TITANIUM PARTS ALLOWED.
- 22) Truck arm or 3 point type rear suspension mounting allowed. Rear trailing arms may use rubber bushings and/or heim joints at mounting points. Upper link pivot with rubber bushings allowed. Any type of spring devices located in trailing arms or upper link will not be permitted. No Dual Action upper links allowed. No fifth coils, no Watts linkage, no torque arms and no mechanical devices to transfer weight while car is in motion.
- 23) Solid tubular pan hard bar only. No rubber or spring devices located within bar allowed. One bar, 2 adjustable heim joints only.
- 24) Brakes (all 4) must be single piston callipers made of steel and all 4 must be in good working order. Brake rotors must be a minimum of 3/4 inch thick and made of steel. Master cylinders and pedals of any type allowed. No brake fluid re-circulators allowed.

#### **Gear Rule:**

- 1) There is no gear rule for 2010.

#### **Weight:**

- 1) All weights include driver (no substitutes).
- 2) **All cars with "Option 3 Built Motor" with maximum of 10-1 comp. ratio must weigh a minimum of 2850 lbs with a 56% left side maximum**
- 3) All cars with "**Option 3 Crate Motor**" (GM 88958602) will weigh a minimum of 2775 lbs. with a 57% left side maximum.
- 4) Ballast weight must be securely attached to main frame rail or major cross member structure. No lead shot or liquid type ballast permitted. Ballast to be in blocks of no less than 5 pounds.
- 5) There will be NO spent fuel allowance for regular heat races and feature events.
- 6) ***INVITATIONAL EVENTS of 100 laps or greater will give a spent fuel allowance of 75lbs.***

- 7) Track scales are considered final.

### **Fuel Cells:**

- 1) REFER TO OPTION 1

### **Tires and Wheels:**

- 1) REFER TO OPTION 1

### **Transmissions, Clutches and Drive Shafts:**

- 1) **OPTION 3 Built Motors** may use a stock type replacement Clutch and Flywheel. (Corvette Style or SVO flywheel with minimum weight of 14 pounds). No 10, 000 RPM style. Steel shatter-proof bell housing is mandatory. Clutch and pressure plate must be a minimum 10 inch diameter. "Stock Type" pressure plate and clutch disc required
- 2) **OPTION 3 CRATE MOTOR** may use the following clutch package: Any Aluminum bell housing and the following Quarter Master part # QUA298103A 7 1/4 " 2 disc clutch assembly
- 3) Starter must be in stock position and functional.
- 4) Transmission must be stock OEM unaltered standard with all gears working.
- 5) Shifter may be any type.
- 6) Drive shafts must be steel and painted white.
- 7) Two drive shaft loops to fully enclose drive shaft are mandatory. Loops must be no less than 2 inch wide and 1/4 inch thick and must be fastened to chassis front and rear.

### **Engines and Exhaust:**

**Sealed Crate Motor # GM 88958602 will be allowed as OPTION 3 Crate Motor.**

- 1) Engine make and body make may be interchanged.
- 2) Engine must be mounted with foremost spark plug even or ahead of a line projected across upper ball joints.
- 3) Engine height will be a minimum of 11 inches as measured from centre of crankshaft to ground.



### **OPTION 3 BUILT MOTOR**

- 4) Maximum cubic inch displacement allowed: GM 350, Ford 351, and Chrysler 360.
- 5) Maximum overbore allowed is .060.
- 6) Maximum compression ratio 10:1 on teardown and 10.4:1 on the whistler.
- 7) Bore and Stroke must be factory spec (example: 350 Chev-3.48 stroke x 4 inch bore). No stroked or destroked motors.
- 8) Crankshaft must be stock OEM type only.
- 9) No dome pistons. Only flat top or dished pistons are allowed. Pistons cannot protrude above the deck of the block.
- 10) No aluminum engine blocks.
- 11) Stock type connecting rods only. 6" connecting rods are allowed.
- 12) Harmonic balancer must be OEM steel elastomer-type balancer only. No aluminum or fluid damper balancers allowed.
- 13) Any hydraulic flat tappet camshafts. No mechanical. No mushroom or roller camshafts. Off-set camshaft key is allowed. Must maintain stock diameter lifter and lifter bore for that make and model of engine.
- 14) No gear drive or belt-drive systems.
- 15) No roller rockers allowed. Rockers and push rods to be stock for engine. Screw in studs and guide plates allowed. No stud girdles allowed. No rev kits allowed.
- 16) Stock OEM or World Products Cast Iron Straight Plug Cylinder Heads Only. No polishing, coating or porting of heads. GM angle plug heads are not allowed. GM heads with 292 casting number are not allowed. Vortec heads are not allowed on built motor option. World Products cylinder head part #43600-1, #43610-1, casting #1-052 or Dart SR heads are allowed for GM. Any machine work must be concentric to the valve stem. No relieving about or below the head of the valves. No un-shrouding of the valve pocket.
- 17) Maximum intake runner volume for both brands of head is 170 cc.
- 18) HEADS:
  - GM Max. Valve size In. 1.94- Ex. 1.60
  - Ford Cleveland Max. Valve size In 2.04- Ex. 1.65
  - Windsor Max. Valve size In. 1.94- Ex. 1.64
  - Chrysler Max. Valve size In. 1.88- Ex. 1.60
- 19) Stainless steel or stock type valves allowed. No titanium valves. No turning of valve stems. An undercut valve may be used. Ball method will be used to test valve stem to seat clearance. Ball size is .787 for intake and .531 for exhaust.

20) 1.5 rocker arm ratio allowed on Chevrolet engines. 1.6 rocker arm ratio allowed on Ford engines. Valve springs must be stock diameter.

21) INTAKE MANIFOLDS: The following Edelbrock #'s are allowed,

- GM 2101
- Chrysler 2176
- Cleveland 2750
- Windsor 2181

These manifolds must remain as manufactured. No port matching or flow work permitted. 1<sup>st</sup> design manifolds with the same part numbers are not permitted.

22) No external oil pumps allowed. FORD motors only may run single stage external oil pump.

23) Battery operated 12 volt ignitions only. Electrical system must have a MAIN SHUT OFF SWITCH mounted within reach of driver and accessible by safety crews.

**24) Carburetor may be a Holley 600 cfm 4 BBL Carb adapter and gasket combined thickness must not exceed 1.25 inches. Carb will be subject to GO-NO GO gauge inspection, top and bottom.**

25) **OPTION 3 Built Motor Headers:**

- a) No stepped headers
- b) Header tubing must be a maximum of 1 5/8 inch OD
- c) No 180 degree headers allowed. No Iron Lung headers.
- d) No TRI-Y Headers**

26) **OPTION 3 Crate Motor Headers:**

- a) Headers may be stepped
- b) Header tubing may be any size
- c) No 180 degree headers. No Iron Lung headers.
- d) No TRI-Y Headers

**27) 2 into 1 exhaust muffler systems such as HOWE type 5 inch muffler are allowed.**

28) Mufflers are mandatory. Exhaust must exit behind driver outside the body or may be turned down to exit under car behind driver.

29) "CRATE MOTOR OPTIONS"

**\*\*\*Exceptions not outlined above\*\*\***

30) In order to achieve clearance to the race track the Crate Motor (GM 88958602) option may upgrade oil pan to the following :

31) CHAMP Pan part# CP100 – 7RB Louvered Tray Pan with no Kick-Out 6 3/4" Harmonic Balancer Allowed

**32) ANY INCONSISTENCIES FOUND WITHIN ANY CRATE MOTOR APPLICATIONS WILL RESULT IN FORFEIT OF ALL POINTS EARNED TO THAT POINT OF SEASON, FORFEIT OF MONIES AND POINTS EARNED IN EVENT, AND DISQUALIFICATION FOR REMAINDER OF SEASON. CRATE MOTOR VIOLATIONS WILL NOT BE TOLERATED!!!**

**Safety Requirements:**

1. REFER TO OPTION 1

**THERE WILL BE NO MIXING AND MATCHING BETWEEN OPTIONS 1, 2 OR 3 FOR THE LATE MODEL DIVISION.**

**ITEMS OUTLINED WITHIN EACH OPTION MUST COMPLY WITH ALL OTHER ITEMS AVAILABLE WITHIN EACH OPTION**

**PLEASE NOTE THAT OPTION 3 IS DESIGNED TO HELP INTEGRATE FORMER LIMITED LATE MODELS AND MAY BE ADJUSTED IN THE INTEREST OF PARITY AS WE MOVE FORWARD.**

## **THUNDER CAR RULES 2010**

This division is open to any North American built passenger car. No station wagons, convertibles or trucks allowed.

### **Frame, Chassis & Cage:**

- 1) All roll cage material must be a minimum of 1 3/4 tubing. Wall thickness can be no less than .095 inch thick.
- 2) All cars required to have a minimum 4 point roll cage. Roll cage must be symmetrical in all directions.
- 3) Minimum of 4 curved, horizontal door bars required on drivers side with a minimum of two vertical bars between each horizontal bar
- 4) "X" type bars will be allowed on passenger side.
- 5) Dash bar required, along with an "X" type member across and behind driver. A so called "Petty" bar must be present to prevent right front corner of halo from collapsing in the event of a rollover.
- 6) Left leg protection bar must be installed between roll cage and left front frame rail.
- 7) A front engine bay hoop is allowed and may connect directly to main cage.
- 8) Bracing running from top of cage towards the rear should extend beyond fuel cell area before attaching to rear frame rails.
- 9) Roll cage must be professional looking and electrically welded. Subject to Tech Inspector's approval.
- 10) Main frame must be completely stock. All suspension mounting points must remain in their stock locations.
- 11) Front cross member may have snout removed and plated for center link clearance.
- 12) Cross member may also be notched to achieve engine height rule.**
- 13) Structural X ing will be permitted in the following areas of the chassis:
  - Main frame rails may have X bracing under the floor in the center section of the car.
  - Rear clip may have X bracing above or under the fuel cell area.
  - Downward supports from main cage hoop to rear clip may have X bracing.
- 14) Rear frame sections may have 2"x3" replacement tubing from top of kick-up rearward.
- 15) Must retain original appearance and be approved by Capital City Inspectors.
- 16) Front and Rear sub frames, or uni-body frames, must be connected with 2x3 rectangular

tubing.

**Bodies:**

- 1) All body panels must be steel with the exception of Hoods and Trunk Lids. **Door skins, lower portion of rear quarter panels and front fenders may be fabricated. Doors must be steel. Lower portion of quarter panels and fenders may be aluminum.** Original dimensions must be maintained. Aftermarket bodies such as 5-Star Monte Carlo panels may be used. Chassis must maintain original location points for all components such as suspension and drive train, regardless of body used.
- 2) Body must be complete with all components. All chrome mouldings, door handles, nameplates and lights must be removed.
- 3) Original wheel openings may be trimmed conservatively for tire clearance. Front inner fender panels may be removed.
- 4) All doors must be welded or bolted shut. 20 gauge steel is recommended between door skin and door bars on driver's side.
- 5) Inner hood bracing may be removed. If original hood hinges are used, 2 front hood pins are required. If hinges are not used, hood must have 4 pins.
- 6) Hoods may be steel or Fibreglass.
- 7) Inner trunk bracing may be removed. If hinged, trunk must have 2 pins. If not hinged, 4 pins are required. Trunk lids may be steel or Fibreglass.
- 8) Stock appearing bumpers for make and model must be used. Bumpers must be in stock position. After-market bumper covers may be used subject to approval of Capital City Tech inspectors.
- 9) Stock windshield is allowed. Lexan replacement is recommended. 4 safety clips mandatory—2 at top of window and 2 at bottom of window. Cars must have front windshields. Rear window and side windows are optional. Top 5 inches of front windshield must be left available for Capital City Speedway divisional sponsors.
- 10) A maximum 5 inch rear spoiler with no bracing is allowed. Spoiler width may be no wider than rear deck of car.
- 11) Rub Rails will be allowed. Must be neat in appearance.
- 12) Minimum height of all body components will be 6" from the ground measured without driver in car.
- 13) A quality paint job is mandatory on all cars with high contrast numbers for legibility, day or night. Bodies must be kept neat and painted at all times. No metallic numbers.
- 14) A minimum 24 inch high, 3 inch stroke number is required on the door area on both sides of the car. A minimum of 30 inch high, 3 inch stroke number is required on top of

roof facing the passenger side of car. A block style number on right head light cover and right tail light cover is required. All numbers must be Capital City Speedway registered and/or assigned. Number alterations may be required at any time by Capital City Speedway to avoid duplication.

- 15) Truck bodies will be allowed to compete at INVITATIONAL EVENTS only. Subject to Capital City Inspector's approval.

### **Interior:**

- 1) All upholstery materials, trim and padding must be removed.
- 2) Front and rear firewalls must have all holes and openings covered with **sheet metal/aluminum**. Area between fender and firewall must be filled with **sheet metal/aluminum**. Front firewall may be fabricated but must remain in stock location.
- 3) Pedals must remain in stock location.
- 4) Any holes or openings in the floor pan must be covered with steel .022 sheet metal.
- 5) Original steel floor pan must be retained on driver's side of interior. A fabricated interior may be used on the passenger side of car. For transmission clearance passenger side floor pan may be raised 12" above original position of driver's floor pan. Passenger side floor may drop back down to original height or maintain height of 12" to passenger door.
- 6) Rear firewall may be fabricated. Rear firewall may start behind seat at base of roll cage and extend rearward to base of rear window opening. Rear firewall may not exceed height of rear deck. **Front firewall, transmission tunnel to driver's right and rear firewall directly behind the driver must be a minimum of .022 steel. All other interior pieces may be built with a minimum of .040 aluminum.**
- 7) Original trunk floor and rear wheel arches may be removed.
- 8) Only one stock type factory mirror is allowed. No outside mirrors.
- 9) Roll bar padding is mandatory.

### **Heights:**

- 1) Minimum frame height 6 inches measured from ground to lowest point of frame. Heights will be checked with driver out of car.
- 2) Engine height will be a minimum of 12 inches measured from ground to centre of crankshaft. **Cross member may be altered to achieve crank height.** Engine may not be moved left/right of original location. Engine may be moved back within 1" of original location.

### **Suspension, Steering & Brakes:**

- 1) All suspension and frame components must be stock for the year, make and model of car. No modification of stock suspension locating points. Rear spring mounts may be fabricated but must be in factory location, and be non-adjustable. (Load bolts must be completely removed from ex-challenger type cars. Front & Rear)
- 2) Wheel base must be a minimum of 101"
- 3) Maximum tread width will be 64" front and rear.
- 4) Springs and steering components may be interchanged.
- 5) **Unless indicated otherwise, all suspension components must remain stock.**
- 6) All control arm rubber bushings may be replaced with urethane or heavy plastic. Steel, aluminum, brass and mono-ball type bushings will not be allowed.
- 7) No adjustable sway bars. Link kit lengths may vary side to side.
- 8) Welded or locked rear ends permitted. Mini-spool permitted. No aluminum or full spools allowed. No Posi-Track rear ends allowed.
- 9) Rear end housings may be interchanged year to year. (eg. 8 1/2" may be used to replace 7 1/2")
- 10) Tubular upper control arms may be used. Mounting points must remain stock. Lower A-Frames may be modified within 1 inch of stock length either shorter or longer. Cars utilizing strut type spring and shock assemblies may alter front strut towers to achieve allowable camber.
- 11) Springs may be stock or after market with a minimum size of 4 inch outside diameter.
- 12) After-market, adjustable front spring spacers, will be allowed.
- 13) ***Load Bolts will be allowed on Rear Springs ONLY. Multi-hole spring shackles will be permitted on leaf spring applications.***
- 14) **After-market racing shocks will be allowed, but must be stock type replacement. All shocks must be steel, non-adjustable and non-rebuildable. Front shocks must be stock mounting and must be located in original position.**
- 15) Brakes must work on all 4 wheels. Rotors, callipers and spindles may be used from different models. Single piston, steel callipers, must be used. No brake bias adjusters or equipment that would allow brake biasing to be accomplished. No proportioning valves allowed in brake system. Factory stock, rear disc brakes will be allowed if drum brakes are not available for specific make and model. Any car needing to utilize this option, in a rear wheel drive car, will carry a 50 lbs. weight penalty.



### **Gear Rule:**

- 1) There is no gear rule for 2010

### **Weight:**

- 1) All cars must weigh a minimum of 3150 pounds for any V-8 powered cars. (Driver Included)
- 2) Maximum left side weight will be 53%. (Driver Included)
- 3) Maximum rear weight will be 45%. (Driver Included)
- 4) ***Any car utilizing Crate Motor Option GM 88958602 must weigh a minimum of 3050 pounds. (Driver Included) This is subject to change in the interest of competition.***
- 5) Any car running a fuel injected V-8 will carry a 100 lbs. penalty. This is subject to change in the interest of competition.
- 6) Any car competing with a V-6 engine will weigh a minimum of 2800 lbs. and maintain a maximum of 55% left side and a maximum of 50% rear weight. (Driver Included) This is subject to change in the interest of competition.
- 7) All weights will be checked with driver in car—no substitutes.
- 8) All ballast will be in blocks of no less than 5 pounds.
- 9) Any cars wanting to utilize a Rochester 2 bbl. Carb will be allowed 55% left side and 50% rear.

### **Fuel Cells:**

- 1) Fuel cells are mandatory.
- 2) Fuel cell maximum capacity: 15 gallons.
- 3) Fuel cell must be mounted in centre of trunk area.
- 4) Fuel cell must be separated from driver with an all steel firewall.
- 5) No gas fillers allowed outside of body.
- 6) A fuel cell protection bar is mandatory. Minimum 1 3/4 inch O.D. .095 inches thick.

- 7) Fuel cell must be secured to floor of trunk with a minimum of 2 straps. Straps must be a minimum of 1" x 1/8" flat steel or equivalent.
- 8) Bottom of fuel cell may be no lower than 13" from ground to bottom of cell. Fuel cell must be centered between frame rails.
- 9) Fuel lines must be neoprene or steel. Lines must be securely fastened out of driver's compartment.
- 10) Steel cased fuel filters only.
- 11) No electric fuel pumps unless a fuel injected vehicle is being used.
- 12) All cars must have an operational fuel shut off valve mounted in the main fuel line that is easily accessible by driver and safety crews.
- 13) Pump gas or track fuel only.

#### **Tires and Wheels:**

- 1) Racing style wheels are mandatory. Steel only.
- 2) Maximum width will be 8 inches measured from bead to bead.
- 3) 15 inch diameter wheels only.
- 4) Heavy duty 5/8 inch wheels studs are mandatory on right side of car.
- 5) All cars will be required to use track tire.
- 6) A rule of one (1) tire per night will be in effect, purchased through Kenyon Racing Products. Hoosier 27.5-8.0-15 890 tire. No softening compounds; durometer tests will be performed.

#### **Transmission, Clutches & Driveshaft:**

- 1) Automatic transmissions only. Transmissions must be factory available for year, make and model car.
- 2) Standard transmission may be used if engine size is 3.5 litres or less. In this instance the transmission, clutch and flywheel must be factory stock for application, and scatter shield protection must be used.
- 3) Solid transmission mount may be used.
- 4) No after market valve bodies or manual valve bodies allowed.
- 5) Power-glide transmissions will be allowed. All cars with power-glide transmission will

carry a 50 lbs. penalty.

- 6) Torque converters must be stock. Must be a minimum of 11" diameter for 8 cylinder engines.
- 7) After market shift kits and shifters allowed.
- 8) Drive shafts must be stock, steel and painted white.
- 9) Two steel drive shaft loops to fully enclose drive shaft are mandatory. Loops must be no less than 2 inch wide and 1/4 inch thick and must be fastened to chassis front and rear.

### **Engines and Exhaust:**

***The following CRATE MOTOR OPTION will exist at CAPITAL CITY SPEEDWAY IN 2010. Crate Motor # GM 88958602 will be allowed.***

***All internal components of this engine package will be inspected in accordance to the specs outlined from GM. This motor (other than internal specs) will be subject to all other criteria as outlined in the Engines and Exhaust section.***

***Crate Motor Option may run a 4412 Holley 2BBL carb as outlined in this section.***

***Crate Motor Option will receive a 100 pound weight break. This is subject to change in the interest of competition.***

### **BUILT MOTOR OPTION**

- 1) Maximum cubic inch allowed:
  - GM 350
  - Ford 351
  - Chrysler 360 (maximum overbore .040 allowed for clean up)
- 2) No modifications to engine block, cylinder head, crankshaft, camshaft or connecting rods unless specified.
- 3) Block may be zero decked. No part of the piston can protrude above block deck.
- 4) OEM cast or forged pistons are allowed. No high performance pistons.
- 5) OEM style hydraulic camshaft and lifters only.
  - Maximum Valve Lift:
  - GM 410 Int. or Exh.
  - Ford 419 Int. or Exh.
  - Dodge 412 Int. or Exh.
- 6) Double roller timing chain allowed.
- 7) Cylinder head must be stock for engine being used. No modifications to cylinder head

allowed. Double Bump style heads are not allowed. 202 cylinder heads or Vortec V-8 heads are not permitted.

- 8) Cylinder head may be changed from year to year provided they are not high performance.
- 9) Compression limit 9.0:1 on tear down and 9.4:1 with the whistler.
- 10) Maximum valve size –
  - GM Int. 1.94 Exh. 1.60
  - Cleveland Int. 2.04 Exh. 1.65
  - Windsor Int. 1.84 Exh. 1.64
  - Dodge Int. 1.88 Exh. 1.60
- 11) Stainless steel or stock type valves are allowed. Valve stem diameter must be stock. No turning of valve stems permitted. Undercut and/or light weight valves are not permitted.
- 12) Nitrated rocker arms are allowed. Must maintain stock ratio. Dodge may use adjustable rockers.
- 13) Guide plates may be used.
- 14) Extra capacity, wet sump, steel oil pans, are allowed.
- 15) No external oil pumps allowed.
- 16) Screw in valve studs, are permitted.
- 17) Factory stock carburetor only. Max. single 4 bbl. Must bolt to original factory intake. No adapters allowed. CHRYCO may use quadrajet- carb. Fuel injected motors may be used if it is available in make/model and year of vehicle being run. Choke accessories may be removed. Adapter plates are not allowed. If Rochester carb is used, max. bore diameter is 1" - 1 1/16" and max. boost venturi bore diameter is 1/8"
- 18) Carburetor must be old style, Holley #4412. Specifications will be as follows: Metering block #'s 5924, 5925 and 10570.
  - a) metering block power valve channel restriction ports (2 holes behind the power valve) max. .0635
  - b) metering block idle feed restriction ports (2 holes) max. .035"
  - c) metering block main passage to discharge nozzle (2 holes ) max. .141"
  - d) main body high speed air bleeds (2 holes ) max. .028"
  - e) main body idle speed air bleeds (2 holes ) max. .074"
  - f) butterfly ( throttle plate ) thickness .0398" - .0438"
  - g) hole in butterfly .090" - .096"
  - h) butterfly must have ID # 215 stamped in it
  - i) throttle shaft diameter .368" - .369"
  - j) throttle shaft thickness at flat of shaft .152"
  - k) venturi bore diameter 1.373" – 1.377"
  - l) boost venturi inner bore diameter .377" - .383"
  - m) boost venturi outer diameter .610" - .630"

- n) throttle bore diameter 1.6855” – 1.6865”
- 19) No re-working of carburetor other than removal of choke plate, filling of choke rod hole, changing of jets and power valve.
  - 20) One piece solid carburetor adapter will be allowed. Carb adapter and gasket combined thickness must not exceed 1.25 inches.
  - 21) No ram air style systems allowed. Air to engine must enter through cowl area and air horn of carb.
  - 22) Solid throttle shaft (gas pedal linkage) must be used. No cable types allowed.
  - 23) Original cast iron intake only allowed. No aluminum intakes permitted.
  - 24) E-Vac systems will not be permitted.
  - 25) Original cast iron exhaust manifolds only allowed. No Ram Horn exhaust manifolds or headers are permitted.
  - 26)** Exhaust pipes may be a maximum of 2 ¼” before mufflers and be a maximum of 3” after muffler.
  - 27) Magnaflow mufflers #11215 (2 ¼ ), #11216 (2 ½), or 11219 (3”) are recommended. The step pipe between pipe and muffler may be no longer than 6 inches.
  - 28) Exhaust must extend beyond driver compartment and may either exit out right side door or may be turned down towards race track and exit under car.
  - 29) Cold air boxes are allowed. No “Ram Air” types systems permitted.
  - 30) OEM 12 volt stock ignition. Must consist of stock or stock replacement parts only. No after market high performance ignition systems.
  - 31) Electrical system must have a main SHUT OFF SWITCH and must be within reach of driver and accessible to safety crews.
  - 32) Aluminum radiators are allowed. Aluminum engine pulleys are allowed
  - 33) Electric cooling fans are permitted.
  - 34) Aluminum water pumps are permitted
  - 35) Solid motor mounts are permitted.

If your motor has been properly sealed by the party approved by Capital City Speedway, Peterborough Speedway, Mosport Speedway, Sunset Speedway, Kawartha Speedway, Varney Speedway or Barrie Speedway and that documentation is verified, you will be considered legal to compete and not be subject to tear down. This does not exempt you from any inspection that can be performed without breaking seals.

### **Safety Requirements:**

- 1) All drivers must wear approved safety helmets (minimum Snell 2000 standard).
- 2) Fire retardant suit is mandatory. Fire retardant gloves are mandatory and fire retardant shoes are highly recommended.
- 3) Aluminum racing seat mandatory.
- 4) Driver's seat must appear as close to stock position as possible. Seat must be securely fastened to roll cage and frame members.
- 5) Quick release aviation type, minimum 3 inch safety belts required. Shoulder harness must be fastened to roll cage. Belts may be no older than 3 years prior to date of competition.
- 6) An approved driver's window net is mandatory.
- 7) It is mandatory that all cars have a 2½ pound fire extinguisher with gauge, aluminum head and steel mounting bracket. Extinguisher must be attached to the car's interior on driver's right side. Extinguisher must be within reach of driver and accessible to safety crews from both sides. On board fire system highly recommended.
- 8) Two-Way radios are not allowed.

### **LEGENDS RULES 2010**

The 2010 INEX rule book will be followed.

## **MINI-STOCK RULES 2010**

The Mini stock class is open to all cars, model years 1974 to present with a maximum wheelbase of 105" and engines containing up to 4 cylinders. The following vehicles are prohibited:

- A. Porsches, BMW's, Audi's, Saab's, and other high-performance sports cars specifically prohibited at the discretion of the race director.
- B. Any automobile with a turbocharged, supercharged, or rotary (wankel) engine.
- C. Convertibles, All Wheel Drive and 4 wheel drive vehicles.

**BODY AND APPEARANCE:** The body must be stock appearing and in stock position on frame:

1. All chrome moldings, ornaments, door handles, glass, tail-lights, headlights and plastic components must be removed, except the grille and windshield. Carpets, seats and interior trim must be removed.
2. All doors must be welded or bolted shut. Original wheel arches must be retained. All window openings must remain stock.
3. Racecars participating in a racing event must be presentable in appearance. All cars must be neatly and brightly painted.
4. Cars must have solid floors and body panels. Repairs to floors and body panels must follow the original shape and contour.
5. Skinning of panels is allowed within reason as determined by the Technical Committee. It is also allowed for the installation of roll cage bars. Front inner fenders may be removed or trimmed.
6. If the windshield has been removed there must be a mesh screen totally covering the opening.
7. Numbers must be contrasting color to that of body color. One or two digits only - no letters or special characters. All numbers must be 20 inches high and have a minimum width of 3 inches, including the roof. To facilitate the line up, car numbers must also appear on the metal covering the right side headlight and taillight.
8. Left side spot mirrors may be used if the driver is wearing a head and neck restraint system such as a Hans Device, if you are not wearing one you can not run the spot mirror.

**Any car without a registered number will not be scored in any event.**

**WEIGHT:** The car's minimum required weight is calculated based on the engine's declared displacement (see chart below).

Engine Type	Max. Size	Min. Weight per cc
8 valve pushrod OHV	2760cc	1.00 lb./cc
8 valve SOHC	2629cc	1.05 lb./cc
12 valve SOHC	2509cc	1.10 lb./cc
16 valve SOHC	2300cc	1.15 lb./cc
16 valve DOHC	2300cc	1.25 lb./cc

The minimum required weight is 1800lbs. The maximum required weight to engine displacement is 2800lbs.



**8.** The maximum allowable left side weight is 56%.

**9.** Minimum required weight will be measured with the driver in the car and in race trim (helmet, fire suit, gloves, neck brace etc). You may not add anything (fuel, fluids, etc.) to the car after a race to achieve the required minimum weight.

**Note -** At the race director's discretion, weight may be added or subtracted if necessary to equalize the competition.

**a. In the interest of competition, weight penalties, (25 lbs.) will be added to cars after a drivers 2nd Feature Win, plus an additional 25 lbs. for every feature win after that. First 50 lbs. will be placed in passenger seat area, additional weight may be placed where competitor desires. Any penalty weight will remain in car for duration of season.**

**b.** Capital City Speedway will reserve the right to add or subtract any amount of lead at any time as they see necessary in order to keep the class fun and competitive

## **DRIVELINE, ENGINE & ENGINE MANAGEMENT SYSTEMS**

**13.** Variable valve timing engines (VTEC, VVTI, etc.) and/or engines with more than 16 valves are not allowed.

**14.** Engines must be made for the year and model of car and must be mounted in stock location. If your car was not produced from the factory with an engine specified in a North American factory shop manual, then it is not allowed.

**15.** Any stock, automatic or manual transmission made for the year and model of car can be used. Transmission must retain all gears as delivered by manufacturer

**16.** Posi-trac, limited slip and lock-up rear ends are allowed.

**17.** OEM carbureted fuel systems are allowed. Must remain stock in every respect. Dual stock carburetors allowed, provided they were manufactured for that model, make and year of car and engine.

**18.** OEM fuel injection systems are allowed. Must remain stock in every respect. Aftermarket fuel injection parts and/or engine management computers are not allowed. Stock fuel pumps only. Electric fuel pumps are allowed provided the car was manufactured with them. Aftermarket electric fuel pumps are not allowed.

**19.** Ignition system must remain stock in every respect. Aftermarket ignition modules (e.g. MSD) are not allowed.

**20.** Adjustable cam gears are allowed, but only to set the valve timing back to its original specifications after an engine repair. The Tech Director must approve this before the gear's) are installed.

**21.** Batteries must be securely mounted in front of firewall or behind rear firewall. Batteries may not be mounted in driver's compartment unless they are in a marine type box mounted solidly to the floor. If the battery is mounted beside the fuel cell, it must be encased in a marine type box.

## **EXHAUST SYSTEM**

**22.** Stock OEM exhaust manifold only. **Headers are not allowed.**

**23.** Exhaust pipe must exit behind driver and in front of rear wheel well.

**24.** Maximum exhaust-pipe diameter is 3 inches.

**Mufflers are mandatory** on all cars and the exhaust noise for all Mini-Stock cars must not exceed a maximum 90 db level, measured at a 50 foot distance, at racing speeds.

## **CHASSIS & SUSPENSION**

**25.** Uni-body cars must have front and rear clips connected with a minimum of 2" x 2" tubing.

**26.** Unless specified below, suspension parts and pick-up (mounting) points must be stock, with no modification:

- o Top of strut tower may be modified (subject to Tech approval) to achieve desired camber (only). Adjustable, aftermarket camber plates are not allowed.
- o Right side control arms may be modified to achieve desired camber (only).
- o Spring shims, and/or spring rubbers may be used. Adjustable weight jacking devices (jack bolts etc.) are not allowed.
- o Factory type springs only. Adjustable coilovers are not allowed.
- o Single spring per wheel configuration only. Multiple springs per wheel are not allowed.
- o Non-adjustable, sealed shocks only.

**FUEL: Pump gas & track fuel meaning exactly what it says, fuel that is sold by Drummonds at the race track, No aviation fuel or racing fuel purchased outside the track. The tech department reserves the right to test any and all competitors for cheating, anyone found doing so will forfeit all prize money for the night and all points for the season.**

## **TIRES:**

**27.** Maximum tire size allowed is 205 x 60 by XX (wheel size).

**28.** DOT approved street tires only – Minimum tread wear rating of 200 (Must appear on the sidewall of the tire, as produced by the tire's manufacturer.) Falcon- Azena Tires are allowed and recommended, 1/8 Tread depth rule will be enforced.

**29.** Snow tires, racing tires or race-compound street tires are not allowed.

**30.** All tires are subject to approval of official in charge. Shaving of tires is not allowed.

## **WHEELS**

**31.** Aluminum and alloy wheels are allowed provided they are stock OEM production. Maximum width of 7" measured from bead seat to bead seat will be allowed.

## **BRAKES**

**32.** All wheels must be either 12, 13, 14 or 15" as manufactured.

**33.** Intermixing of wheel size is not allowed.

**34.** After-market wheels are allowed provided they are stock production for the vehicle.

**35.** Must have stock (OEM), four-wheel brakes in good working condition.

**36.** Drilling and/or slotting of rotors is not allowed.

**37.** Aftermarket brake components, except steel braided brake lines, are not allowed.

## **RADIATOR AND COOLING SYSTEM**

**38.** Larger radiators are allowed, only if they fit in stock radiator cradle.

**39.** Water must be used as your engine coolant. A water-wetter additive may also be used.

**40.** Antifreeze is not allowed.

## **TRUNK**

**41.** Full stock trunk and bracing must be retained. A quick hold-down release for fast trunk entry must be devised.

## **BUMPERS**

**42.** Front and rear bumpers must be stock and in stock position. However, they can be reinforced from the inside only.

**43.** Outside rub bars are not allowed.

## **SEATS**

**44.** An aluminum racing-seat is mandatory.

**45.** The seat must be anchored at the bottom in 4 places and securely attached to the roll cage.

**46.** Adjustable sliders are not allowed on the seat base.

The driver must have at least 2" clearance between the top of his/her helmet and the roof when seated in racing position.

## **FUEL TANK/CELL**

**47.** The fuel tank (a fuel cell is strongly recommended) must be securely mounted in its original position underneath the car.

**48.** The fuel tank/cell must be completely sealed off from the driver's compartment with a metal firewall.

**49.** The fuel line must not pass through driver's compartment.

The trunk floor may be cut to install a fuel cell but only to the minimum extent required to mount the cell.

**: The following safety rules are of utmost importance and will be strictly enforced.**

## **DRIVER SAFETY**

**50.** CSA Safety Approved helmets (2000Snell or newer) are mandatory for each driver.

**51.** If a car's windshield has been removed, the driver must wear a full-face helmet-with a mounted visor (mandatory). Goggles are minimum safety protection, and are recommended for drivers in cars with windshields (only).

**52.** Fire suits, fire-retardant gloves and a neck brace are mandatory for each driver. (No exceptions will be made.) Fire retardant boots are recommended. will be mandatory in 2009

**The driver must be able to exit the car by him or her self with his/her helmet on.**

## **Vehicle Safety Equipment**

**53.** A full 6-point roll cage, securely mounted to the chassis and frame of the car, is mandatory. The roll cage must be made using a minimum 1 ½" O.D, steel tubing with a minimum of .125" wall thickness. If 1 ¾" O.D. steel tubing is used, it must be a minimum of .095 wall thickness. There must a minimum of 3 horizontal door bars welded to the roll cage on the drivers side, and 2 more horizontal door bars on passenger's side of the roll cage.

**53. A** Front support bars may extend from the front of the roll cage to the front of the frame (MAX one bar each side). Rear support bars may extend from the upper 1/3 of the rear roll cage hoop to the rear frame rails or floor (MAX one bar each side).

**54.** 5 or 6-point seat belts, at least 3" wide, properly bolted to the roll cage, and no more than 5 years old, are mandatory. Seat belts are subject to tech inspector's approval.

**55.** The driver's side window opening must be fitted with an approved safety net, with a mandatory quick release mechanism mounted to the roll cage. The driver must be able to release the window net while seated and belted into the race car.

**56.** A master kill switch, clearly marked ON/OFF, is mandatory and must be located inside the car near the center of the dash.

**57.** A fully charged and operable fire extinguisher is mandatory. It must be mounted securely within the reach of the seated driver with his/her seatbelts fastened.

**58.** Rear wheel drive cars must have a safety drive shaft hoop installed at the front of each drive shaft segment.

**59.** Each car must have a tow hook or chain, front and back, mounted under the bumper and must be visible to the safety crew.

**60.** A minimum of 1 inside, center mirror is **mandatory**, and must be located within close proximity to the factory position.

**61.** Outside mirrors are not allowed.

**62.** All holes in the engine firewall must be filled securely with non-flammable material. Metal patches are recommended.

## **4-FUN RULES 2010**

- 1) Any 4 cyl. compact car no 4 wheel driver cars and no trucks. No rotary, turbocharged or supercharged engines
- 2) All glass and flammable material must be removed except for front windshield. when there is a hatchback the hatch must stay on and be fasten properly so it wont fly out.
- 3) No outside re-enforcement allowed. No skinning of inner body panels, hood or trunk
- 4) Car must have full body and floor, brakes must work on all four wheels
- 5) Stock exhaust and muffler must be intact and operational
- 6) Minimum of factory seat belts, factory location of battery and gas tank
- 7) I rear view mirror in stock location, no outside mirrors
- 8) Seat must be in stock location and locked up right.
- 9) All doors must be welded, chained in such a way as they will not open.
- 10) Recommended 4 point cage, however roll bar or post required as a minimum, **2010 will see 4 point cage mandatory.**

- 11) 2lb. fire extinguisher aluminium head must be in reach of driver when belted in, mounted with metal bracket.
- 12) Champion from one year must move up to mini stock following year
- 13) **Stock DOT tires only, no tires from other classes will be allowed, NO RACING TIRES AND TIRE'S MUST HAVE 280 TREAD WEAR MINIMUM.**
- 14) No contact what so ever, any contact will get an immediate black flag, and asked to leave 0%TOLERANCE.
- 15) Hood and trunk must have factory latch or hood pins, no seat belt hold downs allowed
- 16) Front and rear safety chain mandatory.
- 17) No Suspension Modifications
- 18) **All four for fun cars must be equipped with a Race Receiver for 2009 and beyond**

## Regular Event Purses

(Special Event purses will be posted for the specific event)

### LATE MODEL:

FINISH	PAYOUT		FINISH	PAYOUT
1	\$700		16	\$125
2	\$650		17	\$100
3	\$550		18	\$100
4	\$450		19	\$100
5	\$400		20	\$100
6	\$350			
7	\$300			
8	\$250			
9	\$225			
10	\$200			
11	\$200			
12	\$175			
13	\$165			
14	\$155			
15	\$150			

### THUNDER CARS:

FINISH	PAYOUT		FINISH	PAYOUT
1	\$300		16	\$65
2	\$250		17	\$60
3	\$200		18	\$60
4	\$150		19	\$60
5	\$135		20	\$60
6	\$125			
7	\$115			
8	\$110			
9	\$105			
10	\$100			
11	\$90			
12	\$85			
13	\$80			
14	\$75			
15	\$70			

**LEGENDS:**

<b>FINISH</b>	<b>PAYOUT</b>		<b>FINISH</b>	<b>PAYOUT</b>
<b>1</b>	<b>\$300</b>		<b>16</b>	<b>\$65</b>
<b>2</b>	<b>\$250</b>		<b>17</b>	<b>\$60</b>
<b>3</b>	<b>\$200</b>		<b>18</b>	<b>\$60</b>
<b>4</b>	<b>\$150</b>		<b>19</b>	<b>\$60</b>
<b>5</b>	<b>\$135</b>		<b>20</b>	<b>\$60</b>
<b>6</b>	<b>\$125</b>			
<b>7</b>	<b>\$115</b>			
<b>8</b>	<b>\$110</b>			
<b>9</b>	<b>\$105</b>			
<b>10</b>	<b>\$100</b>			
<b>11</b>	<b>\$90</b>			
<b>12</b>	<b>\$85</b>			
<b>13</b>	<b>\$80</b>			
<b>14</b>	<b>\$75</b>			
<b>15</b>	<b>\$70</b>			

**MINI-STOCK:**

<b>FINISH</b>	<b>PAYOUT</b>		<b>FINISH</b>	<b>PAYOUT</b>
<b>1</b>	<b>\$125</b>		<b>16</b>	<b>\$40</b>
<b>2</b>	<b>\$100</b>		<b>17</b>	<b>\$40</b>
<b>3</b>	<b>\$90</b>		<b>18</b>	<b>\$35</b>
<b>4</b>	<b>\$80</b>		<b>19</b>	<b>\$35</b>
<b>5</b>	<b>\$75</b>		<b>20</b>	<b>\$35</b>
<b>6</b>	<b>\$70</b>			
<b>7</b>	<b>\$65</b>			
<b>8</b>	<b>\$60</b>			
<b>9</b>	<b>\$55</b>			
<b>10</b>	<b>\$50</b>			
<b>11</b>	<b>\$45</b>			
<b>12</b>	<b>\$45</b>			
<b>13</b>	<b>\$45</b>			
<b>14</b>	<b>\$40</b>			
<b>15</b>	<b>\$40</b>			