

Colorado Dwarf Cars

2009 GENERAL RULEBOOK

REVISED December 7, 2008

Disclaimer: The following rules are for the Dwarf Car Division. No pretense is made of having designed a foolproof set of rules and regulations. The spirit and intent of the rules is going to be the standard which Dwarf Car will guide racing in Colorado. Event officials are authorized to decide if an equipment change or design is an attempt to beat the rules. They can and will disqualify an entry in violation of the spirit or intent of these rules. Interpretation of or amendment to these rules may be made at any time. The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events, and, by participating in these events, all licensees are deemed to have complied with these rules. No express or implied warranty of safety shall result from publications of, or compliance with, these rules and/or regulations. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant.

<u>COLORADO DWARF CARS</u>	<u>1</u>
<u>2009 GENERAL.....</u>	<u>1</u>
<u>RULEBOOK.....</u>	<u>1</u>
<u>REVISED December 7, 2008.....</u>	<u>1</u>
<u>ADMINISTRATIVE PROCEDURES.....</u>	<u>3</u>
.....	3
1.ADMINISTRATIVE RULES.....	3
<u>CAR SPECIFICATIONS.....</u>	<u>6</u>
2.BODY TYPES	6
3.DIMENSIONS	7
4.WHEEL BASE	7
5.TIRES and WHEELS	7
6.FUEL.....	7
7.FUEL CELL	8
8.ENGINES	8
9.DRIVE TRAIN	10
10 FRAME and ROLL CAGE	10
11.ENGINE LOCATION and SET BACK	11
12.SUSPENSION	11
13.WEIGHT.....	11
9.14 NERF BARS and BUMPERS	12
15.ELECTRICAL	12
16.BRAKES	12
10.17.SAFETY	13
18NUMBERS	14
19RULES of CONDUCT	14
20PROTEST.....	17
21APPEAL	17
<u>VIOLATIONS & FINES.....</u>	<u>18</u>
<u>All Money for fines will be taken from purse.....</u>	<u>18</u>
<u>1.Safety violations</u>	<u>18</u>
<u>2.Non-performance enhancing</u>	<u>18</u>
<u>3.Performance enhancing</u>	<u>18</u>
<u>4.Motor rules</u>	<u>18</u>
<u>5.Conduct rules</u>	<u>18</u>
<u>RACING FLAGS</u>	<u>19</u>

ADMINISTRATIVE PROCEDURES

1. ADMINISTRATIVE RULES

- a. **IMPORTANT: Members are not employees of the association.** Members are independent contractors and they assume all responsibility for all charges, premiums, and taxes payable on any funds they receive as a result of their participation in any event as an Association member.
- b. **Rule Interpretation:** Anything not expressly authorized by these rules is prohibited. Final interpretation of these rules is the responsibility of the Technical Committee.
- c. **Rule Changes:** To maintain a proper balance, it may be necessary for RMDCRA to make rule changes and/or modifications from time to time. Such changes are designed to enhance close competition and may include rules that handicap specific cars. Any rule changes during the season will be voted on and approved by the members of RMDCRA.
- d. **Membership Application:** Once a member has submitted an application and payment is made for application, the owner and or driver is then placed on probation for a minimum of 10 main event races. At any time during this probation period the Board of Directors, by majority vote, can deny the application and the owner and or driver will not be allowed to participate with the RMDCRA. (Added 1/8/99)
- e. **Classes:** There will be no special class of cars. All oval track Dwarf Cars run under the same competition.
- f. **Technical Inspection & Costs:** Every car or member that is registered is allowed one free technical inspection for that specific car or member. During the course of the season, if the owner wants to change or substitute a car or number for the registered and technical inspected number or car, the owner will be required to pay a \$55 technical inspection fee plus an additional \$20 registration fee for each additional number used on a specific car. (Added 1/4/98)
 - i. For a car to race, it must have a full technical inspection with that particular number on the car some time during the course of the racing season and prior to taking a green flag. For clarification, a number can be switched back to the original registered and inspected car with no additional fees.

The intent of this rule is that there is a \$75 fee required for each backup car.
- g. **Tech Inspection for New Cars:** All new cars that do not have a tech inspection completed by the tech committee must schedule an inspection at least one week in advance to give the tech committee adequate time to perform the inspection prior to race night. (Added 1/8/99) There will not be any tech inspections done at race tracks before a race.

- h. **Sale & Transfer:** In the situation where there is a sale of a car and the car number is transferred with and used by the new owner and or driver, all points that were awarded to the prior owner/driver of the car will remain with the prior owner/driver and the new car owner/driver will start with zero points upon the date of sale. (Added 1/8/99)
- i. **Out of State Cars:** In order to race in a RMDCRA event, all out of state cars must pass a safety technical inspection consisting of the following items:
- (#16F) - Driving Suit
 - (#16E) - Fire extinguishers
 - (#16E) - Roll Cage
 - (#16A) - No sharp edges
 - (#16B) - Seat belts
 - (#14B) - Master switch
- i. If the driver also wants to race for purse money, the car must pass a safety inspection (above) and must pass a technical inspection consisting of the following:
- (#3) Tires
 - (#4) Wheelbase
 - (#11A) Front suspension
 - (#11D) Axle location
 - (#11I) Rear suspension
- ii. If the driver wants to race for purse money and Association points, then the driver must become an Association member and the car must go through a full technical inspection.
- iii. If an out of state car races with us more than two times during the season, then the driver must join our Association and the car must pass a full technical inspection. (Added 10/2/97)
- j. **Driver substitutions:** Driver substitutions can be made without penalty in the heat races and main events so long as the substitute driver is a current registered RMDCRA driver and has not taken a green flag in another car that night (Added 1/4/98)
- k. **Point's Races:** The point's races are determined by the race format negotiated by the RMDCRA Race Scheduler at the beginning of each race season. Point's races can be added to the schedule, only in the case of rescheduling a make-up date, based on new negotiations by the Race Scheduler with the tracks.
- l. **Points:** The Treasurer will have full authority in point's tabulations, and purse pay out. (Revised Nov 00)
- m. **Weekly Race Points:** The weekly points will be awarded to a specific car number, not to a particular car or to an individual driver (Added 1/4/98)

- n. **Scoring:** Points are awarded (as determined in the past) for the heat races and main events only (Added 2/1/98)
- o. **Race Registration:** Once a car and its number are registered with the track for that night's event and once that particular car passes through the pit gate, that number will remain with that specific car and cannot be changed for the rest of the night. While in the pits, a member can only have one car for each number i.e. there cannot be two or more #3s (Added 1/4/98)
- p. **Pill Draw:** When they call cars to pack the track, the pill draw is over. This gives the Race Director time to do the lineup and get it over to the tower. (Added 1/8/99)
- q. **Missing Heat Races:** If you miss, for whatever reason, the heat race that you were assigned to, you will:
 - i. Receive zero points for that heat
 - ii. Not be allowed to race in a different heat race that night
 - iii. Start in the last row of the main event for that night.

The only exception will be if you miss the START of your assigned heat race, and the track allows you to enter that heat race DURING your assigned heat race, you will then receive points for the heat based on your finish and will start in the main based on your finish in the heat race. (Added 11/7/99)

- r. **Trophy Dash:** Only the driver and their respective car, which qualified for the trophy dash or dash for cash, will participate in the dash. If neither the driver nor the car is able to participate as one then the next qualifying driver and respective car will participate in their place. (Added 2/1/98)
- s. **Dash for cash:** The winner takes all money. (Added 1/8/99)
- t. **Purse Money:** You must take the green flag in competition to be eligible for purse money.
- u. **Tie-Breaking:** In the event there is a tie in the year end points standing, the following criteria will be used as a tie breaker:
 - (1) The most first place finishes in main events, (2) the most first place finishes in heat races.

If the tie is still not broken, then the number of second place finishes in the main event followed by heat races and on down will be used until the tie is broken. The Board of Directors will have the final say on all tiebreakers. (Added 1/8/99)

CAR SPECIFICATIONS

2. BODY TYPES

- a. **Car bodies:** The car must be a replica of factory body - 1928 to 1948 vintage coupe, pick-up truck or sedan, and will have been a production car. All frames and roll cages, including firewall, doors and rear section framing, must be fabricated as a single unit already forming the actual contour and dimensions of the finished body. Sheet metal, meaning the outside skin, must be attached by rivets, spot welds or dzus buttons, no more than 12" between attaching points located near the outside perimeter of each panel where it meets the roll cage, fire wall or trunk framing. Skin may not bulge or gap open between any attaching points.
- b. **Open Top or Convertibles:** No open-top cars - such as roadsters or convertibles. No convertibles bodies with hard tops or "T" tops. Car must have full roof of metal construction. All roll cage bracing must be intact and permanently welded.
- c. **American Car Models:** No foreign makes, panels, station wagons or woodies. Only closed top, i.e. hardtop, American passenger cars or trucks.
- d. **Construction Materials:** All cars will be of metal construction. No fiberglass, plastic, nylon, etc. No aluminum for frame or roll cage. Outer skin shall be a minimum of 26-gauge steel or .040" aluminum. A firewall between engine and driver's compartment is mandatory. There must be a complete firewall, front and rear separating engine and trunk compartments from the driver's compartments.
- e. **Fenders:** No fenders of any type. No structure of any type to simulate or act as a fender.
- f. **Doors and windows:** Driver must enter and exit by door only. Doors and windows must remain in stock appearance and location. Body must be skinned to match its type (i.e. 3-window coupe must be skinned as a 3-window, not as a 5-window). Right and left doors must be operational and hinged to open. Right or left door may be shortened. Windows and door must be near exact scale size, shape and location.
- g. **Grill and Radiator:** Each car will have grill shell and simulated original grill matching its body style or a simulated radiator and vertical loop mounting bar mounted in near stock location and a hood to match radiator size and body style so as not to distract from overall appearance. No grill is required if simulated radiator is used. Functional radiator may be mounted in the trunk area.
- h. **Engine Compartment:** Engine compartment must conform to scale of body length and must match contour of body where it meets the right and left side of body panels. Firewall or cowling outer skin must be stock appearance in size and shape; only inner panel may be altered.
- i. **Hood:** Any hood may be notched, bent or cut in such a manner, as not to detract from the stock appearance or on car using a radiator or simulated radiator, hoods may not be altered so as to detract from neat appearance.
- j. **Body Condition:** At the beginning of race night, all cars must have all body parts intact.

- k. **Airfoils/Wings:** No airfoils, wings or streamlining of body.

3. DIMENSIONS

- a. **Car Height:** Maximum car height 48", top to ground.
- b. **Car Width:** Maximum body width 38".
- c. **Body Height:** 40" maximum body height from bottom of frame rail to top of car.
- d. **Roof Slope:** The slope of the roof may not exceed 3 1/2" measured from the highest point in the rear just before the main cage starts to turn downward, to the lowest point just before the main cage starts to turn downward. The slope on the front hood should remain in proportion to the rest of the body.

4. WHEEL BASE

- a. **Wheelbase:** The wheelbase is to be 73" (1/2" tolerance allowed,) measured at the center of the spindle to the center of the rear end housing.
- b. **Outside Width:** Outside tire width not to exceed 61" (must be able to pass through 61" opening)

5. TIRES and WHEELS

- a. **Tire Size:** The tire size cannot exceed S205-13 (or metric equivalent). The tire size must be denoted as a numerical size (example S205/70-R-13). Tires sized by letters (examples B-60-13) are not legal tires.
- b. **Tire Designation:** Tires must have a S (street?) designation or metric designation (example S195/70-R-13). All tires must have a tread wear rating of 180 or higher.
- c. **Tire Alteration:** Technical committee must be able to read all information molded in tire side walls (grinding, buffing or altering of tire side walls is not allowed.)
- d. **Tread Style:** Recaps are not allowed. Tires may be mud, rain, snow, or highway tread. (Modified 11/7/99)
- e. **Softening Compounds:** No softening compounds will be allowed.
- f. **Tire Durometer:** 50 durometer min.
- g. **Wheel Construction:** Steel wheels only, 13" WHEEL ONLY, 7" maximum width D.O.T. passenger tires. (Revised Dec. '00).
- h. **Wheel Offset:** Offset wheels are OK.
- i. **Bead Locks:** No bead locks

6. FUEL

- a. **Approved Fuels:** Pump gas, aviation fuel, racing gas.
- b. **Illegal Fuels:** No nitrous oxide, no alcohol.

7. FUEL CELL

- a. **Capacity:** Not to exceed 5 gallons.
- b. **Tank Venting:** Tank must be vented so as not to leak fuel in any position and have a non-leaking cap.
- c. **Tank Mounting:** Fuel cell must be mounted between frame rails in trunk.
- d. **Mounting Materials:** Fuel cell must be mounted with metal straps only.
- e. **Firewall:** Must have complete firewall between drive and fuel cell.
- f. **Fuel Pressurizing:** No pressurized fuel system.

8. ENGINES

UPON INITIAL PRE-SEASON TECH THE SERIAL NUMBER OF YOUR ENGINE WILL BE RECORDED, IF YOUR ENGINE IS REPLACED DURING THE SEASON THE NEW ENGINE WILL NEED TO BE TECHED BY THE TECH DIRECTOR BEFORE THE NEXT EVENT. FAILURE TO DO SO WILL CAUSE DISQUALIFICATION. TOP 3 CARS EACH NIGHT WILL HAVE SERIAL NUMBERS CHECKED.

- a. **Engine Types:** Motorcycle engines only. (No snowmobile engines)
- b. **Displacement:** 1201 cc maximum allowable displacement, 4-cycle, 4 cylinders maximum.
- c. **Production Engines Only:** Must be a regular production motor (minimum of 500 units per year).
- d. **Starters:** Must have working starter, clutch and transmission in place.
- e. **Charging System:** Charging system optional.
- f. **Induction:** Must be naturally aspirated.
- g. **Cooling:** Engine must be cooled by original intent. May use extra fans or oil cooler.
- h. **Exhaust System:** Exhaust and headers must be installed so as not to detract from stock appearing hood, with the exception of side panels.
- i. **Mufflers:** Muffler are mandatory, 95 dba @ 100'.
- j. **Camshaft:** Engines built with two valves per cylinder may use after-market cams. No after market cams allowed for engines using more than 2 valves per cylinder. Only stock cams with factory grind lift and duration may be used. No alteration of factory cam specifications is allowed.
- k. **Engine Cases:** No after market cases.
- l. **Auxiliary Starter:** No auxiliary starter.
- m. **Fuel Injection Engine Components:** The following is the list of approved components to be used with Fuel Injected Engines:
 - i. OEM fuel injection only. OEM ignition systems only. No after market fuel injection allowed.
 - ii. After market boxes that adjust Fuel Curve, Timing and RPM only, are allowed. The only boxes that are approved are the Dynojet 2,

3, and 3R. The DYNA JET3 with USB will be allowed with no external modules allowed. Any boxes of this type, other than those specified, must be pre-approved by Pit Steward, 30 days prior to the event.

Any car that is discovered to have any other electronic devices other than those outlined above, or who has made any modifications to these allowed boxes, will be disqualified.

- n. **Cylinder Heads:** No after market cylinder heads. Stock heads only, with stock size valves and seat.
- o. **Crank Shaft:** Stock crankshaft with stock stroke only. No after market crank shafts.
- p. **THE FOLLOWING ENGINE RULES WILL BE INSTITUTED FOR THE 2008⁹ RACING SEASON:**
 - i. **MOTOR MUST BE 2 YEARS OLD TO BE LEGAL. THE MANUFACTURER MODEL YEAR WILL DETERMINE THE YEAR OF THE ENGINE. (2007 ENGINES WILL BE ABLE RUN IN 2008, 2008 ENGINE WILL BE LEGAL IN 2010).**
 - ii. **OEM FUEL INJECTION ONLY. FUEL INJECTION MAY NOT BE MODIFIED IN ANY WAY FROM IT'S ORIGINAL OEM SPECIFICATIONS. CARBS WILL BE ALLOWED IN PLACE OF THROTTLE BODIES. OEM IGNITION SYSTEMS ONLY. NO AFTER MARKET FUEL INJECTION ALLOWED. AFTER MARKET BOXES THAT ADJUST FUEL CURVE, TIMING AND RPM ONLY, ARE ALLOWED. THE ONLY BOXES THAT ARE APPROVED ARE THE DYNOJET 2,3, AND 3R. THE DYNO JET 3 WITH THE USB IS ALLOWED WITH NO EXTERNAL MODULES PLUGGED IN. ANYBOXES OF THIS TYPE, OTHER THAN THOSE SPECIFIED, MUST BE PRE-APPROVED BY PIT STEWARD, 30 DAYS PRIOR TO THE EVENT. ANY CAR THAT IS DISCOVERED TO HAVE ANY OTHER ELECTRONIC DEVICES OTHER THAN THOSE OUTLINED ABOVE, OR WHO HAS MADE ANY MODIFICATIONS TO THESE ALLOWED BOXES, WILL BE DISQUALIFIED. TIMING RETARD ELIMINATORS AND GEAR POSITION INDICATORS ARE ALLOWED.**
 - iii. **ENGINES MUST HAVE STOCK BORE AND STROKE WITH NO MORE THAN 1 MIL. OVER BORE FROM THE ORIGINAL FACTORY SPECIFICATIONS FOR THE ENGINE MANUFACTURER. OEM BORE AND STROKE ONLY. (THE 1 MIL. OVER BORE IS INTENDED FOR CLEANUP ONLY, NOT AFTERMARKET PISTONS.) ENGINES WILL BE CHECKED WITH A BORE AND STROKE GAUGE AND MUST NOT EXCEED MANUFACTURES ORIGINAL CC'S FOR THAT MOTOR.**
 - iv. **STOCK CAM AND ADJUSTABLE CAM SPROCKETS ARE ALLOWED.**
 - v. **STOCK UNMODIFIED CYLINDER HEADS ONLY.**

9.DRIVE TRAIN

- a. **Driveshaft:** Must use steel drive shaft from motor to automotive rear end. Driveshaft must be painted white.
- b. **Driveshaft Loops:** Drive shaft must have a minimum of 3 360-degree loops. One near each end, one in center. Must be fabricated from a minimum 3/16" x 1-1/2" steel bar, or 1" x .065 steel tubing.
- c. **Quick Change Gearing:** No quick-change rear ends. No quick change in the entire drive system, meaning from motor to the differential.
- d. **Differential:** No after market differentials.
- e. **Driver's Safety:** Any shaft U-joint , fuel line or water line passing through the driver's compartment must be shielded from the driver's compartment.

10 FRAME and ROLL CAGE

- a. **Roll Cage:** Roll cage must be constructed of a minimum 1.25" OD or 1.5" OD x .065 wall tubing in the main roll cage. Secondary members will be a minimum of 1" OD x .065" wall.
- b. **Frame Rails:** All lower frame side rails will be a minimum of 1" x 2" rectangular tubing with a minimum of .120" wall (lower frame rails on right and left side, running from extreme front to extreme rear. Does not include cross member). No round, oval or square tubing in lower side frame rail.
- c. **Cross Members:** There will be a minimum of three (3) cross members in the main compartment; one at the forward end, one in the center and one at the rear. The cross members will be made of steel only, with a minimum wall thickness of .120". Cross members may be round, oval, square or angle.
- d. **Door Openings:** The right and left doors must have a minimum of two bars with a minimum of .065" wall x 1" OD tubing welded through the midsection of the doorframe. The bar supporting the drive shaft tunnel may be included as one of these, only on drive shaft side. Drive shaft side of car must have one bar, minimum of .065" wall x 1" tubing, welded inside to front and rear doorpost positioned horizontally. This bar must not exceed 9" above the top of the frame rail or must not be less than 4" above top of frame rail. If drive shaft tunnel bar is within these measurements, it may be used as this bar. There must also be inside the door opening welded to doorpost, front and rear to support door from being pushed into the driver upon impact.
- e. **Structure Support:** All cars will have a permanent structure support bar, located behind the seat at approx. 23" from the frame rail, extending from side to side. The bottom of the seat will not be more than 63" back, measured from the center line of front spindle. The seat may be tilted back for added driver head clearance, however, no portion of the seat may be back more than 68" measured from the center line of front spindle . A seat pan must be welded in place, using a minimum of 14-gauge steel.

11.ENGINE LOCATION and SET BACK

- a. **Engine Location:** All engines must be front mounted in stock location for model of car.
- b. **Centering:** Engines may not be extended more than 12" to either side of car body centerline at a point at top of frame rail.
- c. **Engine set back:** The square of the motor (rear fins) may not extend more than 17" from center of front axle. No part of the engine or transmission may be more than 21" set back as measured above.

12.SUSPENSION

- a. **Suspension Height:** Front suspension must not exceed 25" measured from the ground to the highest point of any front suspension, or extend rearward past the most forward panel of the fire wall, except under frame rail, where it can not be seen from either side.
- b. **Steering Fasteners:** Steering components must have safety fasteners such as cotter pin or self-locking nuts.
- c. **Pitman Location:** If steering box is mounted in front cowling, the pitman arm may not extend more than 1 1/2" outside the natural contour of the body near that point, and must not prevent proper door operation.
- d. **Axle Offset:** The center of the front and rear axle will be mounted in the center of the frame from side to side (1/2" tolerance is allowed).
- e. **Sway Bars/Traction Bars:** No sway bars or additional traction enhancing devices. One Rubber biscuit allowed.
- f. **Straight Axles:** No straight axles.
- g. **Spring Types:** No leaf springs or torsion bars.
- h. **Rear Suspension Linkage:** No Bird Cage type rear linkage or Jacob's Ladder.
- i. **Shocks:** Steel shocks only, one per tire.
- j. **Trailing Arms:** Rear trailing arms located outside of frame may not extend beyond the rear doorpost.

13.WEIGHT

- a. **Car Weight:** No car shall weigh less than 1,000 pounds without driver.
- b. **Ballast Location:** No ballast will be mounted outside of body or frame.
- c. **Ballast Mounting:** All ballast must be securely bolted or welded inside of body or frame rail and extend no lower than frame rail.
- d. **Ballast Identification:** Ballast will be painted white and have the cars number clearly marked.

9. 14 NERF BARS and BUMPERS

- a. **Front Bumper:** Front bumper must be no wider than 36" and will not extend more than 6" forward of front tires.
- b. **Rear Bumper:** Rear bumper must be no wider than 50" and will not extend more than 6" from extreme rear body or 8" if the car has a simulated fuel tank.
- c. **Bumper Height:** Front and rear bumpers must be a minimum of 4" above the ground, and a maximum of 14".
- d. **Bumper Size - vertical:** Bumper will be a minimum of 6" wide vertically.
- e. **Bumper Material:** Bumpers are to be made from round tubing 1"x .065" minimum and .095" maximum wall.
- f. **Bumper Condition:** There will be no sharp points or edges.
- g. **Nerf Bars:** Nerf bars must be mounted on both sides in front of rear tire and be no more than 18" from center of rear axle to rear of nerf bar. A minimum of a three (3)-point mounting is required. The lower bar must be parallel to lower frame rail from the rear of the car then curve or bend toward lower frame rail, and to end at no more than 8" at outside lower frame rail at front, and 42"c/c at lower mounting point. The upper bar is to attach to the roll cage 18" above the rear attachment point of the lower bar at approx. 45 degrees angle, to intercept lower bar. An additional diagonal brace from frame rail to lower bar is strongly recommended.
- h. **Nerf Bar Material:** These nerf bars will be constructed of a minimum of .065" x 1" OD, and a maximum of .095" x 1" OD wall tubing. Lower bars may not extend more than 1" past the tire tread in rear only. Must roll through 61" opening.

15.ELECTRICAL

- a. **Battery Mounting & Location:** All batteries must be rear mounted (trunk area). Batteries must be securely mounted with a top restraint made of metal. Restraint must also hold battery caps.
- b. **Master Switch:** Cars should have master electrical switch clearly located and marked.
- c. **Traction Devices:** No electronic (i.e.: computer) traction devices. No electronic or manual devices will be adjustable by the driver during a race. Any such devices shall be mounted outside the driver's compartment.

16.BRAKES

- a. **DIRT:** Must have at least a single brake operating both rear wheels if the car has front brakes. If the car has no front brakes, then a brake is required on both rear brakes.
- b. **ASPHALT:** Must have four (4) wheel brakes.

10.17.SAFETY

- a. **Sharp Edges:** All inside suspension mounts must be shrouded from driver compartment. No sharp edges or protruding objects, which could endanger driver, shall be inside driver's compartment. All cut and freestanding edges must be folded, molded or filed smooth (i.e. window and door edges). This does not include trunks, hood or rear access panels.
- b. **Driver's Restraint:** All cars must have an approved 5-point racing harness equipped with a quick release buckle. Both ends of harness must be attached to the frame of the car with not less than 3/8" grade 8 bolts. All seat belts will be installed at a 45-degree angle to the driver's hips. Shoulder harness comes from behind the driver and will go over both shoulders so that they will be held securely in the seat (all safety restraint harnesses will be installed in accordance with manufacture's guidelines). Seatbelts must be replaced or recertified every 2 years.
- c. **Helmet:** Approved racing type helmet with current Snell rating, are to be used. (NOTE: most tracks are requiring a SA-2000 Helmet)
- d. **Steering Wheel:** All cars will have a production made quick-release removable steering wheel.
- e. **Fire Extinguisher:** All cars are required to have a fire extinguisher with gauge inside of car within easy reach of driver. All pits must have a minimum of a 2 lb. fire extinguisher accessible in their pits. Halon fire systems are also acceptable. If used, a minimum of a 5 lb. bottle mounted horizontally, 2 nozzle minimum - with one (1) in drivers compartment and one (1) in engine compartment.
- f. **Cooling/Fuel/Oil Systems:** All cooler, oil or water must be mounted in trunk or engine compartment separated from the driver's compartment by a firewall.
- g. **Cooling/Fuel/Oil Lines:** All lines, fuel, water, oil etc., passing through the driver's compartment must be completely shielded from the driver's compartment.
- h. **Driver's Suit:** All drivers must wear an approved driving suit of at least a single layer. Multiple layer fire suits are encouraged.
- i. **Gloves/Neck Brace:** All drivers must wear an approved neck brace and fireproof gloves. It is also strongly recommended to use a head restraint device.
- j. **Catch Can:** When racing on asphalt, a catch can for oil and water is required.
- k. **Door/Hood/Trunk Latches:** All door latches must be a positive locking device, so as not to open from vibration or up set, and not to jam if door is damaged. All hoods and trunks must be securely fastened by spring latch, nuts and bolts or dzus fasteners (no screws)
- l. **Windows:** No glass of any type is permitted. Rear windows may have a "LEXAN" sheet at a minimum of 1/16" thick. Front windshield must have a 1/2" square mesh windscreen.
- m. **Radios:** No listening or transmitting devices.
- n. **Mirrors:** No rearview mirror of any type.

18NUMBERS

Note: for clarification to all applicable rules, the number with a zero in front of i.e. 04 and 4 will be treated as two separate numbers.

- a. **Number Size:** It is strongly recommended that all numbers and letters be as big as possible and as clear as possible to allow for proper scoring.
- b. **Number Locations:** All cars must have numbers and the letter "R" in five (5) locations: Numbers on right & left door and roof must be a minimum of 12" high and the width must be 2/3 of the height, except for the number #1 on the roof, (it should be as large as possible). The numbers on the rear of the car must be a minimum of 6" and located above the bumper so to be viewed by the driver behind. A 2" minimum number must be placed to the left of the front windshield. The letter "R" must be a minimum of 6" high on both doors and the roof. On the rear and the windshield numbers, the letter must be 1/2" the size of the number. All numbers must be permanent (i.e.: vinyl or painted). No duct tape.
- c. Cartoon characters are part of the history of Dwarf Car racing and it is required that all cars have a cartoon character. All cars must carry the word "DWARF CAR". These words must be at least 2" high and must be on the body skin in plain sight.
- d. The year and make of the car must be displayed in a minimum of 1" letters on the car.
(Most often on the trunk lid).
- e. **Lettering Style:** No Roman numerals, letters or gold leaf.
- f. **Point's Champion:** The #1 is reserved for the top point's champion of the proceeding year. He/she will retain their original number for the future year.
- g. **Duplicate Numbers:** No duplicate numbers within the same racing region.
- h. **Expiration:** Assigned numbers must be used within six (6) months or they can be reissued.

19RULES of CONDUCT

- a. **Alcoholic Beverages:** No alcohol 8 hours before an event. The drinking of intoxicating beverages on the racing premises in advance of any program is strictly forbidden. Any person, who shows evidence of having partaken of alcoholic beverages, will be required to leave the premises immediately and may be subject to a fine of not less than \$50.00.
Refusal to submit to a breath analyzer will automatically make you guilty.
- b. **Drugs:** The use of illegal drugs at any time will be cause for immediate and indefinite suspension and/or fine of not less than \$250.00.
- c. **Sign In:** All cars must sign in with the Pit Steward at least 45 minutes before the first race or he/she will start at the rear of their assigned heat.
- d. **Driver/Car Changes:** Any driver, who competes in a car other than the original car they registered to drive, must get approval from the Pit Steward before competing. If a car change is approved after numbers have been drawn, the driver must go to the rear of that cars assigned heat. If the driver has already completed a race (i.e.-heat) they must go to the rear of the last qualifying main event to continue. If a Main

event has been run, no changing of cars will be allowed for that night. Any driver who competes in a car that he/she is not eligible to drive, shall forfeit all prize money and points won, and shall be subject to fine and/or suspension. All operational cars will pack the track. Any driver with good reason, who is unable to pack the track, must inform the RMD CRA official prior to hot laps. Those cars not packing the track will not be allowed to hot lap and or may have to start at the back of their heat.

- e. **Driver Responsibility:** The driver shall be responsible for the actions of his/her entire pit crew that are with the car. The driver shall be the sole spokesperson for the car and pit crew in any and all matters pertaining to the race, and only the driver shall take part in any arbitration with the race officials in charge.
- f. **Race Delay/Spins:** Cars spinning twice in any race will, at the tracks' discretion, receive the "BLACK FLAG". Non-competitive cars, which are a hazard to the other cars, will at the track's discretion receive the "BLACK FLAG". If a driver continues or re-enters the race without permission of the RMD CRA, and/or track officials, he/she will start the next event they enter at the rear. Any driver that fails to finish their heat will start at the rear of the semi-main or main event. Any driver who continuously delays a race by spinning, crashing or causing a crash, stopping on the track, not lining up or any other activity that delays the program can be penalized by the tech and/or board of directors and will include the following penalty: Starting the following races at the rear until such time that it has been determined that the driver can participate without incident or delay of the program.
- g. **Inappropriate Behavior:** No RMD CRA member or pit crew, whether a member or not, shall participate in:
 - i. Fighting
 - ii. Shouting contests
 - iii. Cussing matches
 - iv. Obscene gestures

In the pits or on the race premises at anytime. Anyone involved in the above activities, which is in someone else's pit area, will be deemed the party who is at fault.

1st. offense: warning.

2nd. Offense: forfeit points and purse for the night.

3rd. offense: cannot race the following race.

- h. **Penalties for Inappropriate Behavior:** Any member who performs an act or participates in actions deemed detrimental to Dwarf Car racing or RMD CRA will face a fine of at least \$50.00, and the member may also lose accumulated points, money won, or be suspended.
- i. **Rookie of the Year:** The Rookie of the Year shall be the rookie with the most points at the end of the season. A rookie is characterized as a person who has not taken more than three green flags in main events in a Dwarf Car. Rookies will be required to fly a rookie flag and start in the back for the first three events. After a review of the Racing and Tech. Committee, the flags can come off and you may start in your drawn spot.

- j. **Sportsman of the Year:** The Sportsman of the Year shall be determined by his attitude, dedication to the sport, promotion of the sport, and overall sportsmanship shown to the Association and fans. He shall also have competed in at least 57% of the point races.
- k. **Pitman of the Year:** Pitman of the year shall be determined by a vote of the drivers for the qualities of the sportsman of the year plus a dedication of helping others.
- l. **Most Improved Driver:** drivers will vote most improved award. You can win this once.
- m. **Award Qualification:** To be qualified to vote in the above awards you must participate in 57% of the races.
- n. **Membership status:** Paid memberships will be in force from November 1st until November 31st of the following year. One car membership is entitled to one vote. A driver will be given two grace races if he/she has never taken a green flag in a Dwarf Car before. Driver's car must have no performance or safety infraction to qualify for a grace race. Any driver without current membership will be assessed a \$15.00 fee per race, which will be put into the championship point fund. However, the fee will be waived if the race is an open competition event. No points will be awarded to a non-member participant. After the second (2) grace race, the driver must be paid member to participate in any other race.
- o. **Pit Meetings:** All drivers or their representatives will be required at the pit meetings.
- p. **Tech Assistance:** It will be required for a representative from every car to participate in Tech Inspection responsibilities one week a year with a Tech Inspector. The driver of the car will be responsible for supplying a representative on the date that he is assigned.
- q. **Penalty Assessment:** Penalties for violations of the RMDRCRA rules are determined by the gravity of the violation and its effect on fairness of competition, the orderly conduct of the event, and the interest of Dwarf Car racing & RMDRCRA. Such penalties may include, but are not limited to, disqualification, suspension of membership privileges, fines or loss of points. The RMDRCRA board of directors shall use the following guidelines for the imposition of penalties in the situations described below, but may assess a greater or lesser penalty depending on the circumstances.
 - i. Any member who threatens or assaults, either verbally or physically, any RMDRCRA official or board member or persons serving under their direction, may face a suspension, a fine of \$100.00 and loss of money for that event, and loss of accumulated points.
 - ii. Any member who fights in the pits, track, or on the race premises may face a fine of \$200.00, suspension, money loss from that event, and all accumulated points.
 - iii. Any driver displaying less than five fingers out the window of a car in an unsportsmanlike manner will face a fine of no less than \$25.00, and a letter of reprimand.

20PROTEST

- a. \$25.00 fee to file a protest, \$100.00 fee to file an engine protest, \$350.00 fee to file a teardown protest. Only the driver, tech. committee and the President may file a written, signed, breakdown protest, technical inspection protest, or safety protest against another driver. The driver must have participated in that day's event. Protest must be written and delivered within 15 minutes of the end of the main events. It must be delivered to the Tech. Man or to a board member, with the proper amount of money. The board members in attendance will rule upon the protest on that day. Any board member involved in a protest, will not vote. However, TRACK decisions are final. If your protest is supported, money will be returned. If denied, money goes to driver being protested.

21APPEAL

- a. Must be submitted to the secretary, in writing, BEFORE the start of the next race. It must be received with a \$25.00 fee. The full available board will then hear the appeal in person at the event. If the appeal is supported, the fee will be returned. If upheld, the money goes to the point fund.

VIOLATIONS & FINES

All Money for fines will be taken from purse.

1. Safety violations

No car will be allowed to race if a safety violation is found.
Violation(s) must be corrected and signed off by the Tech Committee in order to race.

2. Non-performance enhancing

Rules: #1, #2, #6, #8, #9, #12, #13, #14, #16, #17

1st. Offense ----- Warning

2nd. Offense ----- \$10.00

3rd. Offense ----- \$20.00

4th. Offense ----- \$30.00

No protest allowed.

3. Performance enhancing

Rules: #3, #4, #5, #10, #11 or anything determined by the Tech Committee or Board to be performance enhancing.

1st Offense ----- \$50.00

2nd Offense ----- \$100.00

3rd Offense ----- \$300.00

If allowed to race, protested and found guilty, or if the car fails to pass "post-race tech inspection", loss of purse and points, for that night only.

4. Motor rules

Rule #7

1st Offense-----loss of points and money earned that night

2nd offense----- loss of season accumulated points and money for the night.

5. Conduct rules

18a ----- \$50.00

18b ----- \$250.00

18f ----- 1st. Warning

2nd. Forfeit points & purse.

3rd. forfeit next race.

18h ----- \$50.00, may lose points, money, or suspension.

18s ----- \$100.00, suspension, loss of purse & accumulated points.

18t ----- \$200.00, suspension, loss purse

18u ----- \$25.00

The Board will have full authority over violations that are not listed

RACING FLAGS

Green Flag -----Start of race.

Yellow Flag -----Slow and hold your position.

Red Flag -----Stop, do not move.

Black Flag -----Leave the track.

Blue w/ Diagonal Orange Stripe-----Lapping car attempting to pass, use caution.

White Flag w/ Red Cross-----Ambulance on track.

White Flag-----One lap to go.

Checker Flag-----Finish.