



# Complete Rules & Regulations 2017

The Achieva Credit Union Box Car Rally rules and regulations are intended to provide fair and uniform policies governing competitions. It is not possible to write individual rules governing every possible situation or circumstance. Therefore, the "Spirit of the Rules" shall grant the authority and responsibility for interpretation of the written rules, and regulations to Achieva Credit Union, to fairly supervise and judge all competition. Achieva Credit Union's interpretation of the written rules and regulations shall be binding on the participant and the competition under their jurisdiction. In addition, Achieva Credit Union may, at its discretion, provide a rule interpretation that shall be binding upon all participants and competitions. It must be understood by all participants of the Achieva Credit Union Box Car Rally that it is not possible to cover all potential issues of legal construction for racing. However, changes, alterations, modifications and/or replacements not authorized by the rules should NOT be assumed to be legal under the "Spirit of the Rules". Any participant unable to locate a written rule, or regulation pertaining to a specific area of construction should first contact Achieva Credit Union for consultation and interpretation. The rules and regulations established by Achieva Credit Union shall be applicable to all Achieva Credit Union Box Car Rally races and events, and shall be taken into account as to all issues involving the construction of a car. By participating in these events, all participants are deemed to have consented to the rules and authority of the person(s) who shall enforce the rules.

Participant compliance with all of the Achieva Credit Union Box Car Rally decisions, rules, regulations and agreements is required at all times. Achieva Credit Union has and reserves the right to take action against any participant for failure to comply with any such decision, rule, regulation or agreement. Achieva Credit Union may in its sole and absolute discretion take the action it deems appropriate in response to any such failure to comply by a participant, up to and including removal from the event and banning from future events.

**No expressed or implied warranties of any kind, including any warranty of safety, shall result from the publication or compliance with these rules, and regulations. In no event shall Achieva Credit Union be liable for any loss, indirect, special or consequential damages even if Achieva Credit Union has notice of possibility of such damages. Achieva Credit Union makes no warranties, including any warranties of fitness for a particular purpose with respect to the publication or compliance with these rules, or regulations. In all situations, the rules and regulations promulgated by the Achieva Credit Union Box Car Rally shall govern and control over any conflicting provision in these plans.**

**Each participant understands and agrees that a prerequisite to competing in the Achieva Credit Union Box Car Rally, that the racer and his or her car shall undergo and pass inspection conducted by Achieva Credit Union. Each participant further understands and agrees that such inspection shall be conducted using the manner and methods deemed appropriate by Achieva Credit Union in its sole discretion to determine compliance with the rules, regulations, Spirit of the Rules and specifications applicable to that division, and that the decisions of Achieva Credit Union and its officials regarding qualifications and disqualification in compliance with the rules, Spirit of the Rules, regulations and specifications applicable to that division shall be final and binding upon all parties.**

## **RULES COMMON TO ALL**

### **1. Divisions**

There will be two car divisions: Homemade and All-American Soap Box Derby style.

### **2. Race Classes**

There will be six race classes in each the Homemade car and All-American Soap Box Derby style car divisions, for a total of twelve: Pee-wee, Teen, High School, Adult, Corporate, and Auto League.

### **3. Age Limitations**

3.01 Participants in the Pee-wee Division must be seven (7) years of age by the date of the event, and shall not exceed twelve (12) years in age. Proof may be required.

3.02 Participants in the Teen Division must be thirteen (13) years of age by the date of the event, and shall not exceed seventeen (17) years in age. Proof may be required.

3.03 Participants in the High School Division must be currently enrolled in the High School represented on the date of the event. Proof may be required.

3.04 Participants in the Adult Division must be at least eighteen (18) years of age by the date of the event. Proof may be required.

3.05 Participants in the Corporate Division must be employed by the company registered on the date of the event, and must be at least sixteen (16) years of age by date of the event. Proof may be required.

3.06 Participants in the Auto League Division must be employed by the company registered on the date of the event, and must be at least sixteen (16) years of age by date of the event. Proof may be required.

### **4. Weight Limitations**

4.01 In the Pee-wee Division, a combined weight of an assembled Box Car and the participant must not exceed three hundred (300) pounds.

4.02 In the Adult Division, a combined weight of an assembled Box Car and the participant must not exceed four hundred (400) pounds.

4.03 In the Teen Division, a combined weight of an assembled Box Car and the participant must not exceed four hundred (400) pounds.

4.04 In the High School Division, a combined weight of an assembled Box Car and the participant must not exceed four hundred (400) pounds.

4.05 In the Corporate Division, a combined weight of an assembled Box Car and the participant must not exceed four hundred (400) pounds.

4.06 In the Auto League Division, a combined weight of an assembled Box Car and the participant must not exceed four hundred (400) pounds.

### **5. Attire**

5.01 A participant must wear adequate foot protection with a sole while racing.

5.02 A participant must wear a helmet in proper racing position (on the participant's head with the helmet bill to the front and properly strapped). The Helmet must provide proper protection for the driver. Allowable helmet type examples include bicycle, motorcycle, or race car style helmets. Subject to approval by an Achieva Credit Union Official before a participant is allowed to compete.

5.03 A participant must wear adequate and appropriate clothing, including any apparel specified and determined by Achieva Credit Union.

## **6. Conduct**

6.01 A participant, or member of the participant's party, must not use, possess or distribute alcohol, tobacco or drugs, with the exception of those prescribed by a physician specifically for that person.

6.02 A participant or member of the participant's party must not verbally or physically abuse, use profanity and/or demonstrate unsportsmanlike conduct toward another participant, official and/or spectator.

6.03 A participant or member of the participant's party must not in any way endanger another participant, official and/or spectator.

6.04 A participant or member of the participant's party must not in any way obstruct or interfere with another participant's car.

6.05 A participant must not in any way attempt to gain an *unfair* advantage over another participant.

6.06 A participant must not conceal or use any type of electronic and/or communication devices in his or her car while racing.

6.07 A participant must not violate any rule, regulation or agreement.

## **7. Car Eligibility**

7.01 The participant must take part in the construction or modification of his or her car.

7.02 Cars must be constructed and updated per the most current construction rules and regulations.

7.03 Wheels must be of strong and durable construction, so as to allow the participant to compete safely. Home manufactured wheels and tires are not allowed. All wheels are subject to inspection and approval by Achieva Credit Union Officials. Recommended wheels include the sanctioned AASBD wheels available for sale from [www.aasbd.com](http://www.aasbd.com), or hard plastic lawn mower wheels available from your local hardware store. The use of castors is **not** allowed.

7.04 Only strong solid metal axles are to be used, and are subject to inspection by Achieva Credit Union Officials. (Solid axels can be found at your local hardware store).

7.05 Altering, modifying or tampering with the floorboard, shell (if applicable), or any other hardware so as to provide an unfair advantage, or could be seen as hazardous, is prohibited and means for disqualification.

7.06 Any car disqualified from an Achieva Credit Union Box Car Rally race may not be entered in another race without deficiencies being corrected, and passing a re-inspection.

## **8. Racing**

8.01 All cars must start at a starting line or a starting ramp on the track, positioned so that their foremost parts, or noses, are at the starting points.

8.02 One participant in the Achieva Credit Union Box Car Rally must be designated as the driver and must remain seated and in the vehicle throughout the entire heat.

8.03 There can be up to two (2) additional “participating” team members during the race. Those two (2) other team members can assist positioning the car at the starting line.

8.04 Achieva Credit Union encourages a team effort, so no limitation to team size for the construction of the car will be made. However, on the day of the race, the Participation Team will be limited to three (3) members. One (1) will be the driver and two (2) will assist in positioning the car at the starting line.

8.05 No mechanical, electrical, or motorized assistance is to be used in the racing vehicle.

8.06 A participant must not interfere with any other driver.

## **9. Heats**

9.01 Races will be run on a system of single and/or double elimination by heats.

9.02 The time achieved by a participant in a previous heat shall have no bearing in subsequent heats.

9.03 The winner of a heat will be the Box Car with the lowest time.

9.04 The winner of a class will be the Box Car with the lowest recorded time of any heat raced in that class.

## **10. Car Design, Construction and Regulations**

10.01 Box Cars may be built by the participating team or participants will be allowed to purchase pre-manufactured cars, as long as they only move with the aid of gravity, and have adequate braking and steering systems. Modifications to purchased cars is allowed to ensure adequate safety systems are installed, including but not limited to steering and brakes. Embellishments and design liberties to all cars is encouraged.

10.02 The design of the car is open to interpretation & imagination by the participating team, and must be a vehicle which can move down the track with only the aid of gravity. No motors (electric or gas), or any other mode of propulsion may be used. Box Cars range from the realistic to the imagined. Examples of car design include the realistic looking car, to the imaginary vehicles like a couch with wheels, a mini fire engine or even a guitar. A very loose interpretation of the car will be used by the officials inspecting the vehicles, but safety will be of top priority. Achieva Credit Union officials reserve the right to refuse any vehicle from competing in the race if they deem said vehicle to be unsafe for any reason. It is recommended that all car plans are submitted for prior approval before the race to avoid any last minute disqualifications due to safety concerns.

10.03 Box Car body requirements.

- A.** Minimum of ½” plywood must be used for the floor.
- B.** No windshields of any kind will be permitted.
- C.** Interior area must be open for inspection purposes.
- D.** It is recommended that all exposed edges of the cockpit opening have pipe insulation or equivalent padding for driver safety.

- E. Cars in the Homemade car division may be built in any shape the driver/builder desires as long as the driver's vision is not blocked in any way.
- F. Cars in the All-American Soap Box Derby style car division must follow the specified body styles of the All-American Soap Box Derby.
- G. A seat may be used but must be removable for inspection.
- H. Only quality wheels and axles are permitted.
- I. **NO** tampering or altering of wheels or axles is allowed; wheels may be painted.
- J. Wheels must be secured on axles with cotter pins or locking nuts.
- K. A minimum of 2" x 4" pine or equivalent strength metal must be used to secure axles to body.
- L. Steering is required on all Box Cars, and is subject to inspection.
- M. All cars must have some type of a steering wheel system.
- N. All cars must be equipped with a minimum of braking capability consisting of a hardwood block connected to a hinge and pedal system, so as to contact the ground when pedal is depressed.
- O. The use of any liquid lubricant, such as WD40 or silicone is allowed on the wheel bushing and steering components.
- P. No method of propulsion can be used.
- Q. No improvements to car on ramp or starting gate will be allowed.

#### 10.04 Car Dimensions

- A. Maximum length - 96 inches.
- B. Minimum length - 48 inches.
- C. Minimum cockpit opening if applicable - 14 inches wide, 25 inches long and 16 inches high.
- D. Ground clearance - no less than 3 inches from bottom of floor to ground.
- E. Ramp clearance – no greater than 6 inches from front wheels to nose of the car. Ramp angle is approximately 12-15 degrees.
- F. Wheelbase from tip of front wheel to back of rear wheel is a maximum of 90 inches and a minimum of 48 inches. Maximum wheel width to be 48 inches from the outside edge of the front and rear wheels, and minimum width of 24 inches.

#### 10.04 Car Weight

- A. All Box Cars to be limited to weighing no more than one hundred fifty (150) pounds.
- B. The use of additional weights in the cars may be used (although in our testing it appears to make little difference).
- C. If the use of additional weights is used (with the exception of the driver) they will have to be secured to the car permanently, and are subject to inspection by Achieva Credit Union officials for approval. Carrying weights in pockets/clothing is prohibited for safety reasons.