

# KITSAP DESTRUCTION DERBY ASSOCIATION 2024

Mini Truck Demo  
June 22<sup>nd</sup> 2024

## BUILD RULES

1<sup>st</sup> Place \$2,000 guaranteed payout  
2<sup>nd</sup> Place \$1,200 guaranteed payout  
3<sup>rd</sup> Place \$750 guaranteed payout

\$500 Mad Dog paid to most aggressive driver.

\*\*\*Mad Dog\*\* payout requires 12 cars are more.

## Article I. Eligible trucks

- (a) Any year single rear wheel truck, sport utility vehicle allowed that came from the manufacturer with no larger than a (4) cylinder engine.
- (b) 4 wheel drive must be inactive.

## Article II. General Building Rules

### Section 2.01 What must be removed:

- (a) All glass, including windshield MUST be removed.
- (b) Flammable materials inside the car must be removed. This includes the carpet, the rear seat, and interior trim. Do not forget the door panels and roof liner.
- (c) All light covers/bulbs, side mirrors, hubcaps, grill, side chrome, plastic, and pot metal must be removed. Side chrome shall mean anything below the window frame. Door handles are allowed as is the rearview mirror.
- (d) All trailer hitches, related brackets, reinforcements, and factory fuel tanks.

### Section 2.02 Building, Welding, and Securing

- (a) All doors must be securely fastened by either welding, bolts or chains. If the side irons extend the full width of the door, no other method of fastening is required.
- (b) Hoods may be fastened in a maximum of 6 places other than stock, in which only 2 may go to the frame using no larger than 1" all thread. MAX plate size is 6"x6". Bolts must not exceed 4" above the vehicle surface. Chain if used, must not exceed 3/8" link using 1 loop. 2 loops of #9 wire may be used as a fastening point. 6"x6"x1/4" angle fastened to the hood / fender bolted to each other may be used as a fastening point. Hoods must have (2) non blocked 6" access holes.
- (c) Beds may be fastened in no more than (6) places, Tail gates may be secured in no more than (6) places to the frame, if mounting the tailgate to the frame this will count as bed mounts. The front of bed may be connected to rear of cab using up to (2) 1" bolts with up to 6" plates.
- (d) Bumpers may be attached by welding or bolting without adding additional material.
  - (I) Top of bumper must not exceed 28" from the ground when new.
  - (II) Only one set of bumper brackets/mounts per car.
  - (III) Any OEM bumper will be allowed and may be substituted with up to 4"x4" box tubing while being no wider than the vehicle. Back of bumper must be flat, up to a 2" point may be added in the center of the bumper facing forward with the transition of the point no wider than the frame rail.
  - (IV) OEM bumpers and the above-mentioned bumper may be reinforced inside the skin and in front of the back of the bumper (Between the chrome outer skin and the back outer skin)
  - (V) Bumper brackets may be used on the front bumper not to exceed 1/4" x 4" flat bar extending from the bumper no further than the front of control arm attached to each frame rail on one side only, not to exceed 4" attachment to the bumper. Brackets may follow the contour of the frame, bending up to a 1" TEEPEE into the entire length of the bracket.

## **a. Tires, Wheels, and Steering**

- i. Wheel wells may be trimmed.
- ii. Stock steering and tie rod components may be strengthened.
- iii. Steering U-joints may be added connecting the steering column to the steering box.
- iv. Any Tire and wheel combination except for foam filled tires.
- v. May lock suspension down with 2 straps, max 2"x4" maximum 6" long per upper A arm only.
- vi. All vehicles must have functioning brakes.

## **b. Sign Boards and Flags**

- i. Car numbers will be painted on the sign board. Numbers shall be at least 18" high and a minimum of 2" thick. Signs need to be in contrasting colors (i.e. black lettering on white background).
- ii. Sign board codes must be a minimum of 4"x4". The codes are:
  1. "E" to be used for electric fuel pumps.
  2. "F" to be used for vehicles to be in ONLY the finale
- iii. American Flags may not be flown from your vehicle. You may paint them on.

## **c. Body alterations**

- i. Rear of the vehicle may be pre bent, side panel body forming will be allowed.
- ii. You may cut, notch or remove any additional parts to the standard prep rules.
- iii. Wedging of the bed between the rear axle and rear bumper will be allowed.

## **d. Cooling System/Radiators**

- i. No metal cooling fans are allowed.

## **e. Engine options**

- i. Engine swaps are allowed, must be no larger than a 4 Cylinder, Engine mounts may be welded to the frame, while not reinforcing the vehicle. Stock trans crossmembers may be substituted for material not to exceed 2" x 2" x 1/4" wall tubing.
- ii. Lower engine cradles may be used as long as they are not reinforcing the vehicle.
- iii. Distributor plates, no larger than 2" on either side of the distributor may be used. They will be attached in no more than (4) places and must be mounted to the motor.

## **f. Exhaust**

- i. Stack outlet must be a minimum of 6" above the hood. No flared tips are allowed. Turnouts are at the tech crew discretion.

# **(VI) Mid to Rear Truck Build Rules**

**a.**

- i. A limited capacity of 6 gallon or less metal tank or racing fuel cell is required (*Stock fuel tanks are no longer allowed*) You must solidly mount it ahead of the rear axle using a minimum 2” strap or 5/16” chain using 3/8” minimum bolts. The tank must be located at least 12” from the inner side panels.
- ii. Metal splash shields must be installed between gas tank and drivers and must be securely fastened. One exception: Racing fuel cells do not require additional splash shields.
- iii. Gas lines and fittings must be leak proof. NO EXCEPTIONS. Rubber fuel lines located inside the passenger compartment must run through a second larger hose such as a garden hose.
- iv. Electric Fuel pumps are optional. The device must be easily visible and switch easily identifiable. The letter “E” must be painted on your sign board.
- v. All batteries must be relocated inside of the vehicle. The battery box must be of metal construction, fully enclosed, securely fastened to the floor (minimum bolt size to the 3/8” with a washer) and securely closed using 5/16” bolts or 2” straps.
- vi. Switches or wires used for powering off the car must be within reach of the driver while harnessed into the seat.
- vii. Modified shifters, pedal assemblies, and slider drive shafts may be used.
- viii. A protective screen of ½” wire mesh or smaller must be installed in front of the driver. Cars with a sunroof are allowed with the opening being securely covered.

**b. Safety Bracing**

- i. A front cross-brace must be installed from window post to window post, above and as close as possible to the steering column (where the dashboard once was). It must be constructed using a minimum of 2” pipe with 1/4” wall and be securely fastened into position. If a 2-piece pipe is used it must be securely fastened so that it cannot collapse.
- ii. A rear cross brace must be installed as close to the driver as possible. It must be made of a minimum 2” pipe with plates welded on the ends. The cross brace must be bolted with a minimum of two 3/4” bolt or all-thread (curly rod is not acceptable) per side, extending through the side irons. (See diagram), (See Rule 4.03(e)). If the cross brace is collapsed, it must be pinned with a minimum size of 3/4” bolt or all-thread (curly rod is not acceptable) or welded so it cannot rotate. Bracing (side shift bar) is recommended (this will not count as your bed mounts) to run from rear cross brace to the floor or frame area to prevent side shift of cross bar.

- iii. All trucks must have a minimum of one upright (vertical) post near the driver's seat, but two is recommended. The upright must be made of a minimum 2" pipe with a 4"x4" plate welded to the top. The upright will extend from the roof to the cross bar or to the floor and must be welded to the crossbar and must be located as close to the seat as is possible. It must be attached with a minimum of two 3/8" bolts on each end. Backing plates (exterior of car) must be used and a maximum of 6"x6" x1/8" thick on both top and bottom (if extending to the floorboards) ends of the upright (see diagram). Note: if using a 2-piece upright, the female end should be above the helmet level, unless the upright is welded or solidly pinned with a 3/4" bolt or all-thread (curly rod is not acceptable) minimum.
- iv. Both front doors must be reinforced with a minimum 8" height, 1/4" thick channel iron. The side iron must not be more than 6'6" and must begin ahead of the front door seam and be not more than 6" in front of the front door hinges. The channel iron must be centered on the door in a horizontal manner. No sloping side irons. The iron must be bolted with a minimum of three bolts or all-thread (curly rod is not acceptable) (3/4" minimum) that extended through the inner panels. Backing plates must be used and must be a minimum of 6"x6" on both front and rear ends of the iron. The front bolt must be located no further back than the front fender/front door seam at least two other bolts must go through the plate connected to the rear cross bar. If the front pin location is not possible due to electrical components, a third bolt must be as far forward as possible. The ends of the side irons must be cut at a 45-degree angle.

### **c. Harness, Seat & Steering Column**

- i. Approved 4-point harnesses are mandatory (lap belt 3" min, shoulder belt min 2"). Lap belts must be mounted to stock mounts or have a 2" minimum flat washer using 3/8" minimum bolts where it is mounted through the sheet metal. The shoulder harness must be firmly attached to a secure area of the vehicle to allow a 45-degree upward slope to the center of the drivers shoulders. At the tech crew's discretion, you may secure the harness to the cross bar.
- ii. The seat may be OEM stock of any make/model car (Honda Prelude/CRX sets not recommended). It is recommended that you place a headrest on the upright behind the seat if the seat was not equipped with a headrest.
- iii. No fiberglass or plastic racing style seats.
- iv. All steering columns in rear wheel drive vehicles must have an added safety support to eliminate the column from dropping into the lap of the driver.

### **d. Rear End / Axle Build**

- i. You may replace your rear axle with any (stock appearing) non braced rear axle from that class.
- ii. You may weld the differential.
- iii. Humps may be chained in no more than (2) points using (1) loop.

**IF IT'S NOT IN THE RULES, DO NO DO IT!**