

## LEWIS COUNTY DEMOLITION DERBY ASSOCIATION

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### DERBIES

**4TH OF JULY**- START TIME 7:00 P.M.

**AUGUST 14, 2018 (TUESDAY OF THE SWW FAIR)**- START TIME 7:00 P.M.

**AUGUST 19, 2018 (SUNDAY OF THE SWW FAIR)**- START TIME 1:00 P.M.

**LOCATION**- SOUTHWEST WASHINGTON FAIRGROUNDS- CHEHALIS, WA

### ENTRY FEES

**CAR AND DRIVER**- \$55.00

**ADDITIONAL DRIVER**- \$20.00\*

**POWDER PUFF**-\$25.00

**PIT PASS**- \$15.00

**\*IF WOMEN RACE IN POWDER PUFF AND MEN'S RACE, THEY MUST PAY ADDITIONAL FEE**

- Check-in time will start three hours prior to the start of the race. (see start times above)
- The pits will be closed 1/2 hour prior to the start of the race. **NO EXCEPTIONS TO THIS RULE**
- If you are in line to be inspected, or you have already been inspected, you will be admitted.
- 15 minutes prior to the start of the race, there will be a driver's meeting.
- Immediately after the final derby, at the check-in point, prize money and final derby trophies will be awarded.

### **OFFICIALS HAVE FINAL SAY ON INSPECTIONS AND RACING RESULTS**

- Officials will have radios and/or will be wearing orange vests

**\*IF ENTERING FOR PRETTIEST CAR ON THE 4TH OF JULY, YOUR CAR MUST BE PATRIOTIC\***

### PIT RULES

1. Minimum age to access pit area is 16. **VAILD ID REQUIRED**  
**-NO CHILDREN UNDER THE AGE OF 16 IN THE PITS.**
2. Insurance waiver **MUST** be signed at check-in by any individual entering the pits including drivers, pit persons, volunteers, and officials.
3. Drivers, powder puff drivers, and any additional drivers **MUST** check in with their cars.
4. Pit people will check in seperately.
5. Drivers will sign an agreement to remove their cars from the fairgrounds after the final or pay all costs and/or fines associated with the removal of the car.
6. **NO DRINKING OR DRUGS.**
7. Drivers are responsible for their own actions as well as the actions of your pit people.
8. Any driver or persons associated with a driver and their car that is caught breaking these rules will be removed from the pits and the grounds. **THERE WILL BE NO REFUNDS OF ENTRY FEES OR PIT PASSES IF THIS OCCURS.**
9. Pit passes **MUST** be worn at all times or you will be removed from the pits.
10. Fighting, bad mouthing, or harrassment of any driver, pit person, volunteer or official will **NOT** be permitted.
11. Helmets are required. They will be inspected at check-in.
12. Helmets **MUST** have chin strap and it **MUST** be used at all times.

13. **HELMETS MUST REMAIN ON WHILE ON THE RACETRACK.**
14. Seatbelts and shoulder harnesses are required in every car.
  - these can be factory equipment
  - Custom seatbelts and shoulder harnesses will be subject to inspector's approval.
15. **SEATBELTS AND SHOULDER HARNESSSES MUST BE WORN WHILE ON THE RACETRACK**
16. **NO** excessive speed in the pit area. **USE CAUTION. SAFETY FIRST.**
17. Long sleeves and long pants **MUST** be worn while racing (Coveralls are ok).
18. Using cutting torches or welding equipment in the pit area requires proper fire suppression.
19. Intentional hitting of the driver's door will result in an immediate black flag and possible suspension.
  - "**INTENTIONAL**" will be determined by the officials.

## **INSPECTION**

- Have **ALL** equipment with you at check-in: helmet, fire extinguisher, and white flag.
- If you are not ready for inspection, you will be taken out of line and have to wait until you are ready.
- **INSPECTORS (OFFICIALS) HAVE FINAL SAY ON ANY INSPECTION QUESTIONS**
- **IF IT DOESN'T LOOK SAFE- IT WON'T PASS!**

## **MANDATORY RULES FOR CAR SET-UP- DOMESTIC/BIG CAR**

### **SECTION 1- CAR PREPARATION**

1. All glass **MUST** be removed- vacuum all broken glass.
2. Do not break windows inside the door.
3. Winshields are optional.
4. Engines **MUST** be free of flammables- clean and degrease engine.
5. Flammable materials/debris **MUST** be removed from inside the car and trunk.
6. Fire extinguishers are required in all cars- must have a working gauge.
  - Extinguishers **MUST** be securely mounted within easy access of the driver.
7. White flag is required in all cars- for use in case of injury or to wave off.
8. **NO BUNGEE CORDS- NO DUCT TAPE- NO PLUMBERS TAPE**
9. Doors **MUST** be clear of all glass and debris- including inside.
10. All light cover/bulbs, side mirrors, hubcaps, grills, side chrome, plastic, door handles and pot metal **MUST** be removed.
11. All trailer hitches, related brackets, reinforcements and hardware **MUST** be completely removed.
12. Stock fuel tanks **MUST** be removed.

### **SECTION 2- FUEL SYSTEMS**

1. A limited capacity (of 6 gallons or less) metal tank or boat tank is required as a replacement gas tank.
2. You **MUST** solidly mount the tank in the interior of the car, ahead of the rear axle.
3. Tank **MUST** be located at least 12 inches away from the inner door panels
4. If using a metal boat tank, you **MUST** have it securely fastened with metal strapping or chain, and it **MUST** have a metal splash shield.
5. **NO PLASTIC TANKS!**
6. Gas lines and fittings **MUST** be leak proof. **NO EXCEPTIONS!**

7. Rubber fuel lines located inside the passenger compartment **MUST** run through a second larger hose such as a garden hose to prevent accidental spillage on the driver in the event of a leak.
8. A hole **MUST** be made in the floor board for a fuel runoff.
9. Electric fuel pumps are optional.
10. -If an electric fuel pump is used, you **MUST** have an on/off switch, positioned upright so on is up and off is down, with '**OFF**' clearly marked.
11. Switch **MUST** be located on the upright behind driver. Make sure it is clearly marked.
12. Gas tanks may **NOT** be bolted to the frame in any fashion.
13. Gas tanks may **NOT** be used as a kicker to keep the frame from dropping or moving forward/backward. **\*Subject to Tech approval\***

### SECTION 3- BATTERIES

1. Batteries **MUST** be relocated to inside the car.
2. Battery box **MUST** be of metal construction, full enclosed, and securely fastened to the floor.
3. In **NO** way may it be connected/bolted to the frame.
4. The lid **MUST** be securely fastened shut.
5. Two(2) batteries maximum.
6. Switches and/or wires used for powering off the car **MUST** be within reach of the driver while harnessed in.

### SECTION 4- SAFETY BRACING

1. A front cross brace **MUST** be installed above the steering column from the window post to window post (in the former position of the dash board)
  - It **MUST** be made of a minimum 4" pipe/square tubing with 1/4" wall thickness.
  - If a 2 piece pipe is used, it **MUST** be securely fastened so that it can not collapse, either welded or with a minimum 3/4" bolt.
  - The dash bar in **NO** way may touch or be bolted to the frame of the car.
2. A rear cross brace **MUST** be installed from door inner skin to door inner skin, as close to the door post (B post) as possible.
  - **MUST** be at least halfway up from the floor
  - **MUST** be made of a minimum 4" pipe/square tubing with plate welded on the ends.
  - The end plates may not extend more than 15" past cross bar (towards rear of the car).
  - The cross brace **MUST** be bolted with minimum 3/4" bolt per side, extending through the side irons.
  - If the cross brace is collapsible, it **MUST** be pinned with minimum 3/4" bolt or welded so it can't rotate.
3. All cage material **MUST** be no larger than 6" O.D. (outside diameter), unless specified otherwise.
  - It **MUST** be a minimum of 4" off the floor everywhere **EXCEPT** the down legs going straight down.
  - **NO** cage material may be within 6" of the firewall.
  - **MUST** be a minimum of 4" off the transmission tunnel.
4. **ALL BARS MUST BE STRAIGHT.**
  - OPTIONAL:** If floor boards are rusty, you may run **MAXIMUM** 2" pipe/square tubing over to the inner rocker panel sheet metal.
    - It **MUST** be welded. **NO BOLTING** of this bar!
    - This bar may **NOT** be welded to the frame!

5. All cars **MUST** have a minimum of one (1) upright (vertical) post.
    - Upright **MUST** be located directly behind the driver's seat
    - **MUST** be made of a minimum 4" pipe/square tubing with a minimum 10"x10" plate welded to the top
    - The upright will extend from roof to the floor.
    - Needs to be located as close to the seat as possible.
    - It **MUST** be attached with a minimum of two(2) 1/2" bolts on each end.
    - If using a 2 piece upright, the female end **MUST** be above the helmet level, **UNLESS** it is welded or solidly pinned with a minimum 3/4" bolt.
    - May add a 2nd upright on the passenger side of the vehicle.
    - Uprights may in **NO WAY** be connected to the frame.
  6. Both front doors **MUST** be reinforced with a minimum 8" wide, 3/16" thick channel
    - The side iron **MUST** not be more than 7' in length
    - The side iron **MUST** start but be no more than 6" ahead of the front door seam.
    - Door bars **MUST** not extend over the edge of the wheel well openings.
    - The iron **MUST** be bolted with a minimum of 4 bolts at least 3/4" that extend through the inner panels.
      - Backing plates (washers) **MUST** be used and be a minimum of 6"x6"x3/16" thick on both the front and rear ends of the door bars.
      - The front bolt **MUST** be located through the A pillar/electrical knockout.
      - At least one (1) other bolt **MUST** go through the plate connected to the rear cross bar.
      - The ends of the side irons **MUST** be cut at a 45-degree angle.
- IF YOUR DOOR BAR COMES OFF DURING THE DERBY, YOU WILL BE DISQUALIFIED**

#### **SECTION 5- SEAT AND SEAT BELTS**

1. An approved 4-point harness is recommended.
  - If using stock seat belt, it needs to be mounted to stock mounts or have a 2" minimum flat washer where it is mounted through the sheet metal.
2. Seat can be **OEM** stock of any make/model car
  - Honda Prelude/CRX seats are not recommended
3. You **MUST** put a headrest on the upright behind the seat if the seats are not already equipped with a headrest
4. **NO** fiberglass, plastic, or unpadding racing style seats.

#### **SECTION 6- BUILDING, WELDING, & SECURING**

**-THERE WILL BE NO OTHER WELDING OTHER THAN WHAT IS STATED BELOW. IF YOU HAVE A QUESTION ABOUT WELDING, PLEASE CALL AHEAD!**

1. **Doors**
  - You may weld the outside door seams, 5" on, 5" off.
    - this means 5" of weld with a 5" gap.
  - You may use filler no larger than 3"w x 1/8" flat or 1/2" re-bar or equivalent.
  - If bolting doors shut, you may use up to four (4) 1/2" bolts per door.
  - If chaining the doors shut, you may use 2 chains no larger than 3/8" per door
  - Single wrap only
2. **Trunk lids, tailgates, and hoods**
  - Hoods can be bolted in a maximum of six (6) places other than stock.

- The two(2) front bolts may go to the frame.
- The other four(4) bolts **MUST** be sheet metal to sheet metal
- Maximum of 1" all thread. No pipe.
- If you use chain, you may weld maximum 6" washers to the hood.
- If bolting, the 6" washers **MUST** be free floating.
- Bolt size **MUST** be a minimum of 5/8" and a maximum 1".
- Maximum plate size is 6"x6".
- Two(2) 6x6" plates/washers per bolt.
- Bolts **MUST NOT** exceed 4" above the vehicle's surface.
- NO** welding of cutouts allowed.
  - You can use a maximum of eight(8) 3/8" bolts and 1<sup>1/4</sup>" washers.
- You **MUST** have a minimum 10" hole in the hood for fire protection.
- Hoods **MUST** be in stock location.
- Hoods **MUST** be able to be opened at the request of the Tech Inspector.
- Trunks may be fastened using chains, bolts or welds.
  - only 2 may go to the frame.
  - Welds can be 5" long with a 5" gap to the next weld on the outside trunk sheet metal only.
  - If using filler plates, it **MUST** not exceed 5"x3"x1/8" in each plate or 1/2" rebar or equivalent.
  - If bolting, plate size can **NOT** exceed 6x6".
  - All thread maximum 1" may go through frame or be welded to the side of the frame.
- Only allowed six bolts or chains if not welding and still only 2 may connect to the frame.

### 3. **Body**

- Body creasing, enhancing of existing body lines, and addition of body lines is allowed to the side of the car only
- **NO SEDAGONS. NO TUCKING OF DECK LID. NO CANOEING.**
- Trunk lid seams **MUST** be clearly visible and accessible.
- **NO** doubling of body panels allowed.
- **NO** added metal.
- Any spot with four(4) layers of sheet metal or more will be required to be torched out completely.
- Quarter panels **MUST** remain vertical.
- Core support seam welding or rebolting is **NOT** allowed.
- Holes may be cut in the floor and firewall to accommodate the shifter, fuel lines, and transmission lines.
- You may cut a hole in the firewall to accommodate the engine, within reason.
- You may have up to five(5) bolts maximum 3/8" and washers maximum 1<sup>1/4</sup>" in each wheel opening.
  - They may **NOT** be higher than 5" above the stock lip location of the wheel opening.
- NO PAINTING BUFFING, OILING, OR UNDERCOATING FRAMES.**
  - You will **NOT** be inspected or allowed to compete.
- You may weld frame seams from the front of control arm forward.
- Front frame rails may be cut off no further than the front of the factory core support holes.

- Closing of the Y frames is allowed. Or you can weld a 4"x8"x3/16" plate on top only. One **OR** the other.

#### **SECTION 7- WINDOWS AND WINDOW SCREEN**

1. A protective screen **MUST** be installed in front of the driver.
2. Cars with a sunroof are allowed as long as the opening is securely covered with sheet metal.
3. Two(2) quality window bars are required vertically down the windshield from top to bottom.
  - Window bars **MUST** be bolted with minimum 5/16" and maximum 1/2" bolts.
  - **NO** sheet metal screws are allowed to fasten window bars. Window bars are for driver protection, not car reinforcement.
  - Window bars can **NOT** be welded in place.
4. Optional rear window bars may be added.
  - **NO** more than 6" extension on the roof.
  - **MUST NOT** contact the deck lid, trunk pins, trunk plates, or frame in **ANY** way.
  - Maximum two(2) parallel with the roof.
  - They may be **NO** more than 2"x1/2" thick stock.

#### **SECTION 8- RADIATOR/COOLER**

1. **ONLY** stock cooling systems permitted. **NO** exceptions.
2. Radiators and/or fans can be removed.
3. Expansion tanks **MUST** remain in engine compartment as close to stock location as possible.
4. Radiators **MUST** remain in stock location.
5. If using a non-stock transmission cooler, it **MUST** be in an enclosed box inside the vehicle.
6. Transmission coolers and all hoses **MUST** be leakproof.
7. **NO** screw-type clamps on any transmission hose connections inside the car.
8. **MUST** be approved crimped fittings (hydraulic fittings).
9. Transmission cooler and components may **NOT** be bolted to the frame.

#### **SECTION 9- BUMPER AND BUMPER BRACKETS**

1. You may use stock bumper or a maximum 5"x5"x3/16" box tubing.
  - NO** modifications allowed to tube bumpers.
  - Box tubing bumper **MUST** have open ends and have nothing inside.
2. **NO** spikes or protruding items.
3. Bumper swaps are allowed.
  - May only use one(1) set of brackets/shocks.
4. You can use any shock style car front bumper with any shock style brackets.
  - Brackets **MUST** be in stock location and original orientation to be used.
  - May **NOT** be stretched or manipulated to gain length.
5. Bumper brackets **MUST** be no more than 10" back from the end of the frame.
6. **NO** shocks inside or on top of frames **UNLESS** they came factory equipped **AND** are in stock position.
7. If using brackets/shocks, **MUST** be a visible gap between end of frame and bumper.
  - Bumper **MUST** be mounted on the brackets/shocks.
8. Front and rear bumpers may be welded solid.
  - i.e.- bumper to bumper shock, shock to bracket, bracket to frame.
  - NO** extra metal.
  - Bumper may **NOT** be welded to the body.

9. Bumper shock itself may be collapsed and welded.  
-**NO** added metal.
10. You may weld the bumper directly to the frame without utilizing brackets or extra metal.
11. You may weld the outer skin to the inner skin structure of the bumpers.
12. Rear bumper brackets **MUST** follow front bracket rules.
13. Bumper brackets can only be welded 10" from the end of frame.
14. Bumpers may be cut to keep them out of the tires.
15. Bumpers may be welded directly to the end of the frame (hardnose).  
-If doing this, you do **NOT** get any brackets or shocks. All **MUST** be removed.  
-You may cap the end of the frame with 1/4" flat plate the size of the frame (6x6" max).  
-Plate **MUST** remain flat.  
-You may **NOT** relocate the core support in any way.
16. If factory brackets extend back further than 10", you may still only weld the first 10".
17. Both front **AND** rear bumper **MUST** be a minimum 16" and maximum 24" from the ground to the bottom of the bumper.

#### **SECTION 10- MOTOR MOUNTS AND PROTECTORS**

1. Motor mounts and transmission mounts may be strengthened with bolts, welds, or chains.
2. Motor straps welded to the frame and bolted to the motor are allowed.  
-Straps can be a maximum of 3/8" thick flat bar and **NO** more than 2" wide.  
- **ONLY** one(1) strap per side.  
- May go **NO** further than 3" in front of the forward most part of the cylinder head.  
- Straps may **ONLY** have 2" of edge contact to the frame.
3. If using an engine cradle, you may use **ONLY** two(2) front engine hold downs.
4. If you run a Distributor Protector, do **NOT** mount your dash bar or **ANY** other bars closer than 5" to the rear most point of the firewall/cowl. **YOU WILL NOT RUN!**
5. Distributor Protectors are allowed.  
- **MUST** be attached to engine or transmission **ONLY**.  
-Back side **MUST** be no more than 12" wide.  
- **MUST NOT** contact cage before, during, or after the event.  
-May **NOT** be welded, bolted, or connected to body, hood, or frame.
6. Forward supports **MUST** be inside normally positioned headers and **NOT** extend past the water pump.
7. Distributor Protector may **NOT** be welded to the transmission bell housing.
8. Distributor Protector may only bolt to the factory transmission mounting bolts that bolt the transmission to the engine.
9. Distributor Protector **MUST NOT** connect to lower cradle in **ANY** way.
10. Aftermarket Distributor Protectors and cradles are allowed.
11. If you use a front plate, it may **NOT** be gusseted to header flanges or other component in **ANY** manner.
12. Cradles **MUST** be bolted in the car at or near the OEM engine mounting points within 3" of OEM.
13. You can beat flat the engine side of the firewall **ONLY**. Do **NOT** weld or bolt firewall.
14. Do **NOT** reinforce the firewall/cowl.
15. Do **NOT** beat, paint, weld on/to, or modify the driver's side of the firewall/cowl in **ANY** way.
16. **NO** stack protectors.
17. If using an engine cradle, it **MUST NOT** be connected to the distributor protector or frame in **ANY WAY**.

## **SECTION 11- SUSPENSION**

1. Any passenger car **FACTORY** 5 lug rear ends may be used.  
- You may interchange make and models.
2. **NO** braced, hybrids or truck rear ends allowed.
3. **NO** axle savers.
4. Leaf conversions are **NOT** allowed on **ANY** car. Stock leaf springs **ONLY**.
5. Suspension **MUST** remain stock style/type.
6. Raising the suspension is allowed as long as the front **AND** rear bumpers are a minimum 16" and maximum 24" from ground to bottom of bumper.
7. You may weld, bolt, or chain down A-arms.  
-Maximum 3" welds, 1 <sup>3/4</sup>" bolts or 3/8" chain.  
-**ONLY** two(bolts) per A-arm.

## **SECTION 12- EXHAUSTS**

1. Stacks **MUST** be a minimum 18" from exhaust port.
2. Stacks **MUST NOT** point forward.

## **SECTION 13- CARBS**

1. You **MUST** have either an air cleaner or suitable flame arrestor.
2. Two(2) large holes at least 6" in diameter **MUST** be put in the hood for fire extinguisher access.
3. Stack holes are acceptable for fire access holes.
4. **NO** alternative starting methods  
- i.e. starting fluid

## **SECTION 14-BRAKES**

1. Cars **MUST** have a minimum of two(2) working hydraulic brakes or a drive line brake.

## **SECTION 15- TIE-RODS AND WHEELS & TIRES**

1. Any air tire allowed.  
- i.e. DOT, Forklift, Skidsteer, etc.
2. **NO** studded tires.
3. **NO** duals.
4. Valve stem protection is permitted.
5. Tie-rods may be reinforced  
-**MUST** have stock tie-rod ends.
6. Recentering is allowed.
7. **NO** reinforcing wheels.
8. **NO** beadlocks.

## **SECTION 16- SIGN BOARDS AND FLAGS**

1. Car numbers will be painted on sign board.
2. Numbers **MUST** be at least 18" high and minimum 2" thick.
3. **MUST** be in **CONTRASTING COLORS**.  
- i.e. black numbers on a white board.  
-including custom signs

**\* IF SIGN BOARD IS UNREADABLE, THE CAR WILL NOT PASS INSPECTION UNTIL CORRECTED.**



### SECTION 17- REPAIRING DAMAGED CARS

1. When repairing damaged cars, you may use **NO** more than two(2) 4"x4"x 1/4" plates per frame corner section.
2. You **MUST** have **NO** more than eight(8) plates.  
-Two(2) plates RF frame, two(2) plates RR frame, two(2) plates LF frame, two(2) plates LR frame= **8** total.
3. **YOU MAY NOT TAKE PLATES AWAY FROM ONE FRAME SECTION AND ADD TO ANOTHER**
4. Plates **MUST** be at least 3" apart.
5. - They may **NOT** attach to each other in **ANY** fashion.
6. Repaired pieces **MUST** have an inspection hole drilled in the center of the plate.

### SECTION 18- MISC

1. You may cut firewall for distributor clearance.  
-You **MUST** cover the hole to block fire from getting into the passenger compartment.
2. Body mounts may be removed.
3. If replacing body mount bolts, you may use bolts(all threads) maximum 3/4".  
-Washers **MUST** be no more than 3"x3"x 1/4".  
- Washers **MUST NOT** cover body mount hole on exterior of frame.
4. You may add two(2) body mount bolts, one per side.  
- Bolts/fasteners **MUST** be **NO** larger than 3/4".  
- Washers maximum size is 3"x3"x1/4".  
- **MUST** be brightly painted for easy viewing.  
- If using a station wagon with body bolts in the humps, these are your two(2) additional mounts. You will **NOT** be allowed to add more mounts.
5. You may chain the humps.  
- One(1) wrap of chain allowed.  
- It may go around the rear end one(1) time, up through the body and around the frame one(1) time, and be bolted together.
6. If you don't chain your humps, you may run one(1) chain from rear frame rail to rear frame rail behind the rear humps.
7. - Maximum 3/8" chain.
8. **EITHER #5 OR #6, NOT BOTH.**