

## KDDA Mini Van Derby Rules

### A. VEHICLES ALLOWED

1. Any 2, 4 or AWD American badged (GM, Chrysler, or FoMoCo) Mini van

### B. BUILDING YOUR MINI VAN

1. All glass, including windshield, must be removed. A protective screen of ½" wire mesh or smaller must be installed in front of the driver. A mini Van with a sunroof is allowed as long as the opening is securely covered with 1/2" or smaller wire mesh.
2. Flammable materials inside the mini van must be removed. These include the carpet, the rear seat, and interior trim including side and roof liners.
3. All light covers and bulbs, side mirrors, hubcaps, grills, side chrome, plastic, and pot metal must be removed. Side chrome shall mean anything below the window frame. Door handles are allowed to remain.
4. All trailer hitches, related brackets, reinforcements and hardware will be completely removed.
5. A limited capacity metal tank or racing fuel cell is required as a replacement gas tank. You must solidly mount it in interior of the mini van, ahead of the rear axle, using a minimum 2" strap or 5/16" chain. The tank must be located at least 12" from the inner door panels. The stock tank must be removed completely.
6. Metal splash shields must be installed between gas tanks and drivers and must be securely fastened.
7. 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 to prevent accidental spillage on the driver in case of a leak. A hole must be made in the floorboard for fuel runoff.
8. Electric fuel pumps are optional. If an electric fuel pump is used, you must have an on/off switch that is positioned so that up is on and off is down. The switch must be easily visible, be in a square painted yellow and "off" must be clearly marked. The letter "E" must be on your signboard.
9. Batteries must be re-located inside the mini van. Your battery box must be of metal construction, fully enclosed, securely fastened to the floor and securely fastened shut using 5/16" bolts or 2" straps.
10. Approved 4-point harnesses are mandatory. They must be mounted to stock mounts or have a 2" minimum flat washer where it is mounted through the sheet metal. Do not attach to your cross bar or upright.
11. A front cross brace must be installed above the steering column from window post to window post (in the former position of the dashboard). It must be made of a minimum 2" pipe with 1/8" wall and be securely fastened into position. If a 2-piece pipe is used, it must be securely fastened so that it cannot collapse. You may leave the dashboard in on a mini van much plastic should be removed as possible.
12. A rear cross brace must be installed from door inner skin to door inner skin, as close to the door posts as possible, and at least halfway up from the floor. 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 one 3/4" bolt per side, extending through the side irons. (You must use two bolts per side if your upright is not attached to this cross brace. If the cross brace is collapsed, it must be pinned with a 3/4" bolt (minimum) or welded so it can't rotate.
13. All mini vans must have at least one upright (vertical) post behind the driver's seat (two recommended). The upright must be made of a minimum 2" pipe with a 4" x 4" plate welded to the top. The upright will extend from the roof to the cross bar, or to the floor and be located as close to the seat as possible. It must be attached with a minimum of two 3/8" bolts on each end. Note: If using a two-piece upright, the female end should be above the helmet level, unless the upright is welded or solidly pinned with a 3/4" minimum bolt.
14. Both front doors must be reinforced with a minimum 8" high, 3/16" thick channel iron. The side iron must not be more than 6' 6" and must begin ahead of the front door seam and be no more than 6" in front of the front door hinges. The channel iron must be centered on the door in a horizontal manner. The iron must be bolted with a minimum of

- two bolts (3/4" min-1-1/2" max) that extend through the inner panels. Backing plates must be used and must be a minimum of 6" x 6" x 3/16" thick 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 and at least one 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. The Side iron may be welded to the car skin in addition to the above bolting.
15. All doors must be securely fastened by either welding, pinning them with a minimum 1/2" bolt or chaining them in a minimum of one place. If the side iron extends the full width of the door, no other fastening method is required. Note if the side iron does not extend past the rear edge of the side cargo door; the rear edge of the side cargo door must be fastened in at least 3 locations.
  16. Tailgates and hoods must be secured shut with bolts, chains or welds as follows:
    - a. Hoods can be bolted in a maximum of 4 places other than stock. Bolt size must be a minimum of 5/8" and a maximum of 1". Only 2 bolts, in an area on either side of the radiator can extend through the frame. All bolts must have washers twice the size of the holes for bolt clearance, but not exceed 6" x 6". Bolts must not exceed 4" above the vehicle surface.
    - b. Chains must be a minimum 3/8" welded type. A bolt no smaller than 3/8", with washers, must connect the chains. Larger chains and bolts are acceptable as long as they are not used for reinforcing. Tech crew's decision.
    - c. Tailgates / rear hatches may be fastened in a maximum of 6 places using chains or bolts. Bolts must have washers that are twice the clearance hole size, but not exceeding 4" x 6". Bolt size must be a minimum of 1/2" and a maximum of 3/4"
  17. Welding over factory seams without adding any metal other than wire is permitted. **From the driver's side door forward on the driver's side only.**
  18. Damaged bumpers maybe replaced with OEM bumpers. Bumpers must be bolted on. Can use two additional 1/2" bolts on passenger side. Drivers side may be welded.
  19. Rear ends may be welded.
  20. Tie rods may be re-enforced with angle iron or rod.
  21. A chain or cable must be attached to the frame on the front of the mini Van for the tow trucks to use when the mini Van needs to be towed off of the track.
  22. No more than a 10" hole for the shifter can be used and it must be covered with a non-flammable material.
  23. You must cover holes larger than 4" x 4" in the firewall with a non-flammable material.
  24. Switches or wires used for powering off the mini Van must be within reach of the driver while harnessed in. There will be no acceptable excuse for not being able to turn off your mini Van in an emergency situation.
  25. No cooling system other than stock is permitted. Radiators and/or fans can be removed. Expansion tanks must remain in engine compartment as close to the stock location as possible. Heater cores must be secured and covered if left in the mini Van. Radiator support or radiator attachment will be no stronger than stock. Tech crew decision is final.
  26. Transmission coolers other than stock, if used, must be in the back seat area, below the window level. Transmission coolers and all hoses must be shielded from driver. A hole must be cut in the floor to allow for fluid run off or leaks.
  27. Motor mounts and transmission mounts may be strengthened with bolts, welds or chains. Motor straps welded to the frame and bolted to the motor are allowed. Straps can have a maximum thickness of 1/4" flat bar only and are limited to one straps each side. Engine supports may be used as long as they are not reinforcing the frame.
  28. You must have either an air cleaner or suitable flame arrestor on your carburetor. Two large holes, at least 6" in diameter, must be put in the hood for fire extinguisher access. The holes should not be directly over the air cleaner assembly.
  29. Mini Vans must have a minimum of two working hydraulic brakes.
  30. Horns must be disconnected. Optional canister type air horns may be installed in a similar fashion as a fire extinguisher. The horn may only be used in emergency situations, and only to alert the judges or officials of an emergency.
  31. The make of tires is optional. The horizontal tread will be no more than 5/16" and the side lug tread will not exceed 7/16". Only steel wheels will be permitted. The tech crew

may check your spare tires. Running with an illegal tire will result in a loss of pay and points and you will be suspended for the night.

32. Motor swaps ok as long as the motor swapped in is in the same location as the stock motor.
33. Airbags must be removed prior to the event. NOT AT THE FAIRGROUNDS.
34. Cargo mini-vans must have windows cut in the sheet metal the same size as a normal mini-van. The cut metal may be folded over and bolted maximum of 2 bolts per side max size of bolts is ¼" with washers no larger than 1". That is a total of 8 bolts per window opening.
35. Non-cargo mini-vans may pinch and bolt window openings as described above in 34.
36. Welding in locations other than described above is prohibited.
37. All competitors must make hard contact every 90 seconds at a maximum. Obvious sand baggers will be black flagged before their time is up.
- 38. If it does not say you can do it then don't.**