

## Nebraska Bush Pullers

Revised for 2017

### Pro Stock 4x4 Rules

1. Maximum Weight of competition vehicle is 6200#
2. Maximum of one naturally aspirated engine, with a 485 cubic inch limit with a 1% variance is allowed. Maximum engine bore spacing 4.9 inch. Engine must match sheet metal.
3. All body components must retain original location on stock frame of factory production, OEM frame rails only, 133" wheel base maximum. Hood scoops may have rear or forward facing opening.
4. Fiberglass bodies permitted with a protective firewall.
5. Tires must be street legal. No tread alternations. No Barred Tires, Tires will be DOT approved and must maintain original tread pattern. Maximum tire size is 33 x 12.50 or equivalent (ie 305/70/16). Tires will not track past 50% of front or rear width.
6. Solid rear suspension allowed.
7. Any rear-end housing size is permitted. Maximum of one tone front-end housing allowed. No air lockers or electronic locking devices. The width of the housings is to be similar to the width of the factory housings.
8. Weights/weight bar must not extend forward more than 60" from the centerline of the front axle.
9. Engine must be in stock location. Rear of block must be at least 14" behind center line of front axle tube
10. Engine must be same make as vehicle. May run OEM aftermarket cast iron blocks (No Aluminum blocks) with any cast iron heads or aluminum type heads that are NHRA pro stock legal with wedge shaped combustion chambers, no hemi type chamber, OEM or after market. Any internal engine modification allowed.
11. Cast iron and cast aluminum single 4-barrel manifold required. No sheet metal intakes or tunnel rams.
12. No split carburetors allowed. One piece carburetors only.
13. Use of after-market fuel injection systems is not allowed.
14. No electronic timing devices, other than MSD 6,7,8 style boxes.
15. Drive train will consist of the following: Any 1 ton front axle, any transfer case, any rear axle, No planetaries permitted.
16. All exhaust up through hood vertically or down swept rear facing – not out the side of the truck.
17. Hitch Height – 26" maximum, before, during and after the pull and must be rigid in all directions.
18. 25 Degree down angle maximum. Hitch length must be at least 36% of wheelbase no attach point further forward than centerline of rear axle. Draw bar from center line of measured rear axle. Secondary safety hitch required, painted white.
19. Alcohol fuels are not allowed, racing fuels CAN include oxygenated fuel (Q16).
20. A maximum width of truck no wider than 102"
21. No mud flaps or dirt deflectors allowed.
22. Trucks will run steel, magnesium or aluminum flywheels that meet the following criteria:

- a. Steel plate or steel billet flywheel will have a tensile strength of 60,000 psi and a yield strength of 40,000 psi
  - b. Magnesium or aluminum flywheels will meet or exceed former SFI standards 1.1
23. All u-joints must be covered 360 degrees with 1/8 inch steel or 3/16 aluminum having three (3) driveshaft hangers per driveshaft 1/8 inch thick steel or 3/16 inch aluminum 1 inch wide, six (6) inches (maximum) above and below the shaft.
  24. All drive shafts shorter than 24 inches require two (2) hangers.
  25. Automatic transmissions will have a 4.1 SFI-approved blanket or shield.
  26. All trucks must be equipped with a kill switch.
  27. The safety switch will ground the ignition.
  28. Kill switch will be securely mounted to the back of the vehicle and have a two (2) inch diameter solid ring to attach the sled.
  29. A white safety light is required to indicate that competition vehicle is in neutral during process of hooking or unhooking from sled. An additional reverse light is highly recommended, amber in color will illuminate when vehicle is in reverse.
  30. No loose ballast inside vehicle will be permitted
  31. All pulling vehicles are required to have a minimum of 2.5lb fire extinguishers which are fully charged. Extinguishers must be secured and within reach of the driver
  32. Seatbelts are required and must be worn at all times.
  33. All vehicles using a foot throttle must use a toe strap.
  34. All vehicles using an automatic transmission must have a positive gear lockout.
  35. Drivers or crewperson must be seated and in control of the pulling vehicle any time motor is started and running.
  36. No batteries are allowed inside cab of the vehicle unless they are in a marine battery box and secured to the vehicle frame. Shielding is required for battery posts that are exposed.
- \*\*37.** Any interested party wishing to compete with the Nebraska Bush Pullers Pro Stock 4 x 4 class that does not have a legal hitch or wheelbase will be allowed to compete at each individual event if the majority of current members attending vote to allow. The penalty would be a reduction of 200 pounds and a 2" hitch drop. (6,000 pounds max and 24" hitch height). All other rules still apply.