

Brooksville Pulling Association 4x4 Gas Rulebook

General Safety Rulebook applies to all classes.

4X4 Street (Fan Participation)

1. DOT approved tires
2. One ton or less factory type drive train with factory suspension in place.
3. Maximum 26 inch hitch height at hook point.

4X4 MODIFIED*

1. Limited to 6500 Lbs.
2. DOT approved tires or under 35 inch pull tires
3. Naturally aspirated only.
4. Hanging weights may not extend more than 16 feet from centerline of rear axle.
5. Hitch must be a minimum of 36 inches from centerline of rear axle. Maximum 26 inch hitch height at hook point.

4X4 OPEN MODIFIED*

6. Limited to 6750 Lbs.
7. DOT approved tires or under 35 inch pull tires.
8. Naturally aspirated only.
9. Hanging weights may not extend more than 16 feet from centerline of rear axle.
10. Hitch must be a minimum of 36 inches from centerline of rear axle. Maximum 26 inch hitch height at hook point.

4X4 HEAVY MODIFIED*

1. Limited to 8,000 Lbs.
2. DOT approved tires or under 35 inch pull tires
3. No motor limit. No NOS, Propane or Alcohol.
4. Hanging weights may not extend more than 16 feet from centerline of rear axle.
5. Hitch must be a minimum of 36 inches from centerline of rear axle. Maximum 26 inch hitch height at hook point.

***4X4 Modified, 4X4 Open Modified and 4X4 Heavy Modified classes are used to group vehicles that cannot meet 4X4 Pro Stock or 4X4 650 Cubic Inch Modified class rules.**

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4X4 PRO STOCK

1. Weight limit: 6200 lbs.
2. 500 cubic inch engine limit. No aluminum blocks.
3. Maximum wheel base 136 inches, Maximum width rear 8 feet, front 8 feet 6 inches.
4. Only one carburetor allowed (no split carburetors). No electronic fuel management systems.
5. Gasoline only.
6. Maximum 26" hitch height at hook point. Point of hook on hitch must be a minimum of 36" from center of rear axle. (A tab on rear end for easy measurements is recommended.)
7. Open exhaust allowed. Upright ok, if down, exhaust headers should be run in a safe direction.
8. No dual wheels.
9. No planetaries allowed.
10. Weight bar cannot extend forward more than 60 inches from center of front axle. (Axle must be in stock location, you can't relocate wheel wells.)
11. If truck bed is cut out, bed cover required.
12. Back of engine block must be located no closer than twelve inches from center of front axle.
13. Truck frame required. May be reinforced.
14. Aftermarket gear box and transfer case allowed.
15. May use airbags in suspension. No controls inside cab or access to driver while driving (under green flag).
16. Radiator must be within the confines of the body of the truck (In engine compartment or the bed area, not in the cab).
17. No fuel tanks or batteries in driver compartment.

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18. Trucks using standard transmission with gear stick in cab must have a 5/16 inch chain or 2" x 18" strap in place to prevent transmission twist.
19. Fiberglass bodies and lift-up bodies are allowed. Lift-up bodies must have a lock on the lift to prevent falling.
20. All engines must retain stock bore spacing. OEM is defined as available by the original equipment manufacturer on mass produced vehicles. Aluminum cylinder heads permitted, must retain stock intake port configuration and accept OEM intake manifolds. No NHRA, IHRA or drag type pro-stock heads permitted. Fords will be allowed "A" type of cylinder heads or their replicas and Dodge will be permitted "B-1" type cylinder heads or their replicas.
21. No tunnel ram intakes. No sheet metal intakes. No two piece intakes.
22. Tires 35 inch DOT tires, cut or 31"x15.5x15 cepek type.
23. All drivers must wear a helmet, fire suit, safety restraints, head-sock, gloves, shoes, and have an operating fire extinguisher within reach of driver.
24. All drivers must wear safety neck collars.

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4X4 650 CUBIC INCH MODIFIED

Body/Chassis

1. Weight: 6200 lbs.
2. Vehicle must have hood, grill, and fenders in place as intended by manufacturer.
3. Vehicle body style must be or have been available from a dealer as mass-produced.
4. Vehicle must maintain original appearance.
5. Vehicle appearance
 - a. No cab and bare chassis, or flat beds permitted.
 - b. Non-metal floor allowed in bed.
 - c. Fiberglass hood scoops, spoilers, fender flares are allowed.
 - d. Allowed to use stock appearing pickup truck and van fiberglass bodies and body parts.
6. Side doors must be mounted and closed if vehicle was manufactured with doors.
7. Truck doors must have a single latch design, allowing the door to be opened from both inside and outside.
8. Flip-top-body type vehicles that don't have two (2) working doors must have glass lowered.
9. Vehicles with less than stock size window openings must have an escape hatch with a minimum size of 17"X18". Escape hatch will not be counted as working door.
10. Air shock type devices are allowed as long as there are no lines or controls going to or from them. (Valve Steam Only)
11. Adjustable front suspension stops must be mechanical. Pneumatic, hydraulic, electrical adjustable stops not allowed.
12. Vehicles in this division must have vertical bars at the rear most point of vehicle. Bottom of bumper to be a minimum of 8 inches vertically. Must be rigid.
13. Hood line variance: original hood line should be kept and a 3" maximum clearance will be allowed for speed equipment.
14. Truck must have bed floor or bed cover.

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Drawbars

1. No drawbar greater than the angle of the sled chain. (Acceptable angle: 0 degrees to a maximum of 25 degrees.)
2. Draw bar height: 26 inches.
3. Draw bar length: 30% of wheel base.

Driveline/Driveline Shielding

1. Drive shafts between engine and transfer case must have solid shielding a minimum of 3/8-inch aluminum or 5/16-inch steel.
2. Vehicle must have 360-degree metal shield around the universal joints, 3/8-inch aluminum or 5/16-inch steel, minimum width 6 inches.
3. Axle and hub bolt shield required, except where planetary final drives are used.
 - a. Shield must be at least 0.060 inch thick.
 - b. Minimum diameter of axle end or hub bolts to be covered on both front and rear axles.
 - c. Mounting shield cannot be mounted to axle end or hub bolts.
 - d. A hole may be installed in center of front shield so lock can be operated, so long as hub end and axle bolts are covered.
4. No counter balancers permitted in driveline.

Engine Limitations

1. Vehicles are limited to a single automotive type engine. Automotive engine is any engine or its replica available in a passenger car or truck. Maximum (8) cylinders. A replica to be considered legal must accept and swing a stock crankshaft. No diesel engines permitted.
2. Maximum of 650 cubic inches naturally aspirated engine.
3. Acceptable fuels are gasoline and alcohol.
4. Engine must be in stock location, which is defined as being within engine compartment as manufactured, behind stock grill, and in front of stock firewall.
5. Vehicle may run without radiator, and engine may be moved forward, but engine must stay behind grill.
6. No superchargers or turbochargers allowed.

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7. Automotive engines are only allowed to run a maximum of (2) valves per cylinder and one spark plug per cylinder.
8. Fuel injection (and carburetors) and headers may protrude through the hood. Bubble or scoop is optional, but if used the scoop or bubble must cover the carburetors or fuel injection, if induction system protrudes through the hood.
9. Maximum bore space to be 5.0 inches on center.
10. Vehicle must have vertical exiting exhaust. Height of pipe must be a minimum of one foot above bend. Vertical is defined as "being in plumb" with a 10-degree variance in any direction permitted.

Frames

1. May be different than the make and model of truck body.
2. Must be main supporting member of chassis.
3. Tubular steel frame is allowed.
4. Center of wheels cannot exceed plus or minus 6 inches of fender wells for wheelbase being used, which means that a vehicle may run up to a maximum of 133-inch wheelbase.
5. Wheels must be in fender wells as described above. Body may be stretched in middle to accommodate this.
6. The outside edge of the tire on the narrow axle must overlap the centerline of the tire on the wide axle by at least one inch.

Hitch

1. No portion of truck may interfere with sled, chain or hook during pull or while being hooked or unhooked.
2. An area 5 inches wide and 12 inches above the drawbar must be free of all obstructions (including weights, wheelie bars and second draw bar) for ease of hooking and unhooking.
3. Vehicle must have tow hitch on front of vehicle.
 - a. It can extend no more than 6 inches ahead of farthest front portion of the vehicle.
 - b. It will not be counted when measuring length of vehicle.
 - c. It must have a 3-inch diameter hole, positioned horizontally.
 - d. It must be strong enough to push or pull the vehicle at its heaviest weight.

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4. Trucks where drawbar height adjust link is attached to rear differential housing the attaching point must be at axle centerline or below.

Safety

1. All drivers in all divisions must wear a helmet, fire suit safety restraints, head-sock, gloves and shoes, and have an operating fire extinguisher within reach of driver.
2. All trucks using a standard manual transmission must have a minimum of 5/16" diameter safety chain to be hooked to transmission and frame to keep transmission from rotating.
3. All drivers must wear safety neck collars.
4. Vehicle must have a complete firewall with no holes except for controls. Holes not to exceed 1/2 inch larger than control.
5. Flip-top or funny car type vehicles must have body in lowered position before vehicle may be moved under its own power.
6. Flip-top type bodies must have a safety lock to hold up the body.
7. Body may be raised to start engine and may stay in raised position while engine is running as long as vehicle is not in motion.
8. Automatic transmissions require a scatter blanket and mounting as following:
 - (i.) Two front engine mounts, two rear engine mounts, and a support saddle for rear of transmission, with 1/2-inch maximum clearance; or
 - (ii.) Two front engine mounts, support saddle at rear of engine, with 1/2-inch clearance, and a mount at rear of transmission. This is to prevent engine or transmission from dropping if breakage occurs.
9. A deflection shield is required on both sides of engine.
 - a. Shield must extend complete length of block casting from frame upward to cylinder heads and be securely fastened.
 - b. To be made of aluminum or steel with a minimum of 0.060" thick.
10. Operators Compartment
 - a. No fuel tanks, fuel pressure gauges, fuel pumps and or fuel lines inside operator's compartment.
 - b. If the fuel tank is located behind the driver, a fire barrier is required from the firewall to the rear of drivers at. (0.060-inch aluminum or steel is acceptable fire barrier material.)

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11. Vehicles must use wheels for weight rack, no more than 6 inches off the ground, within 6 inches of the forward most part of the vehicle.
 - a. Wheels must be a minimum of 6 inches in diameter by 4 inches wide.
 - b. Wheels must support the weight of the vehicle.
 - c. Wheels must be raised or removed for the purpose of ground clearance when vehicle is not on competition track.
 - d. Wheels must be at least 3 feet apart.

12. Weights must be safely secured to vehicle, and must not extend forward more than 60 inches from the centerline of front wheel.

Tires

1. Maximum tire size to be 112 inch circumference, when inflated to 30 psi on original bar, not to exceed 17 inches in width before cutting.

2. The rules in this class are subject to modification and changes in order to comply with other sanctioning bodies.