

# Four Wheel Drive Truck

## County Fair Pulling Association Rule Book

**Please read all rules and the enclosed registration sheet.**

1. Registration will close 30 minutes before the listed start time.
2. Driver **ONLY** will be admitted to the pit area at NO CHARGE. All others entering the pit will be required to pay admission fee and sign insurance release waiver.
3. Entry Fee \$25.00 cash only. (no check, credit or debit)
4. Truck may be entered only once per class unless otherwise stated by the Director of Competition. (No multiple drivers)
5. **NO TEST HOOK.** If the sled is reset all pullers who previously pulled will have the option to re-hook immediately or drop to last. Floating finish line may be used at the discretion of the Competition Director.
6. Any truck that is not in line and ready to pull when called will be immediately disqualified. No refunds.
7. Any competition vehicle MAY be required to undergo an additional weigh in or tech inspection at any time at the sole discretion of the Competition Director or Head Tech Inspector.
8. ALL drivers are required to attend the drivers meeting prior to the event. (No exceptions)
9. Competitor has 2 attempts at pulling, unless the first attempt exceeds 100 feet. In the event of a pull off the 100-foot rule does not apply, and it will be a floating finish line.
10. If class sizes are not met Officials reserve the right to merge classes or payout 50% of the classes.
11. All classes will reflect on current year SPI rulebook.

### **CLASSES:**

**5800LB STREET LEGAL GAS LIMIT 40 TRUCKS**

**(HALF TON TRUCKS ONLY)**

6500LB STREET ENHANCED GAS	LIMIT 20 TRUCKS
6200LB STREET MODIFIED GAS	LIMIT 20 TRUCKS
6200LB SUPERSTOCK GAS	LIMIT 20 TRUCKS
6200LB MODIFIED 4X4 GAS	LIMIT 20 TRUCKS
6800LB STRET LEGAL GAS	LIMIT 20 TRUCKS
8500LB 2.5 WORKSTOCK DIESEL	LIMIT 40 TRUCKS
8000LB 2.6 DIESEL	LIMIT 30 TRUCKS
9000LB MODIFIED DIESEL	LIMIT 20 TRUCKS

**CHECK INDIVIDUAL FAIR WEBSITES AND FAIR BOOKS FOR:  
CLASS LINEUPS, START TIMES, DATES, PAYOUTS, AND FEES TROPHIES  
WILL BE AWARDED FOR 1<sup>ST</sup> PLACE.**

**5800 & 6800 LB. Street Legal Gas 5800 lb. Is a Half Ton Class 5 and  
6 lug wheels only**

1. **The Street Legal Gas** class is designed for daily driven, on the road pickup trucks (full-bodied gas pickup truck). Valid DOT registration, license plates, insurance, and matching valid state inspection the state the vehicle is registered are mandatory. No dealer, repair, farm, or temporary plates allowed. The vehicle must be four-wheel drive.
2. **Ballast:** Ballast is permitted. Hanging front weights are prohibited. Ballast may be added in the bed of the truck only, no hidden weight or ballast in the cab. If used, ballast must be securely fastened to the bed of the truck. Final decisions rest with the tech official.

3. **Batteries:** The batteries must be securely mounted. They cannot be in the driver compartment or forward of the radiator core support.
4. **Body:** The body must be an OEM truck body, including the full bed floor. The body must retain all original sheet metal. Metal aftermarket hoods are permitted, fiberglass is prohibited. The complete OEM firewall and OEM floor pan is mandatory.
5. **Brakes:** Four-wheel hydraulic brakes are mandatory and must be functional.
6. **Chassis:** The OEM chassis is mandatory. The engine must be in the OEM location for the body being used. The vehicle must retain the full OEM chassis. Wheel tubs, backhalf conversions, tube chassis, etc. are prohibited.
7. **Cooling System:** Radiators must be in the stock location and must be of at least stock size.
8. **Credentials:** All drivers must have a current valid state driver's license and registration.
9. **Driveline:** An OEM transmission and transfer case are mandatory. They must have been an option on a one-ton or smaller pickup. Front and rear axles must also be from a one-ton or smaller pickup (no 5/4 ton axles).
10. **Driver Restraint System:** The OEM restraint system is mandatory and must be worn.
11. **Engine:** Maximum engine size is 500 cubic inch and must be correct manufacturer and size that was a factory available option for that year and make. Engine cannot be bored more than .030 over stock diameter. Engine cannot be stroked, must retain stock stroke. Only type intake manifold and one single four-barrel carburetor limited to 750 cfm maximum. No aluminum heads or aluminum engine blocks unless equipped from the factory. No nitrous oxide allowed and any nitrous bottles must be removed. Air cleaner in the stock location is a must and hood cannot be cut/altered to allow

protrusion of the air cleaner. Factory fuel injection body system allowed.

12. **Engine** must be naturally aspirated unless otherwise equipped from the factory (i.e. Ford EcoBoost).
13. **Exhaust:** Exhaust must exit rear of cab. No open exhaust allowed. Muffler is a must. Exhaust must pass state inspection standards for noise level. Exhaust must also pass state inspection emissions regulations if applicable. Aftermarket headers with a tube size of 1.75" diameter or less are allowed.
14. **Fire Extinguisher System:** A fire extinguisher system is permitted. It must be securely mounted and it is recommended that it be within easy reach of the driver.
15. **Fuel:** Maximum 93 octane pump gas only; higher octane fuel, race fuel, methanol, or any octane boosters/additives are prohibited. Judgement call of the tech official regarding if prohibited fuels are smelled when going over the scales or competing.
16. **Fuel System:** The OEM fuel tank is mandatory and must be used. Racing fuel cells are prohibited and must be removed from the vehicle.
17. **Hitch:** The hitch must be a receiver-style hitch; reinforcements are permitted.  
Reinforcements must not extend forward of the centerline of the rear axle. The hooking point must be in the rear most point on the vehicle and must be rearward of the stock location of the tailgate. When backing into a vertical wall, the hitch point must be the first thing to hit before the bumper, bed, or other parts of the truck body. The hitch must be horizontal to the ground and stationary in all directions.
18. **Bumpers:** May be notched but must be retained. The hitch's height from the ground may not exceed 26 inches. The hooking point must

have a minimum 3 x 3.75 inch inside diameter opening for the sled hook.

19. **Ignition:** Must utilize the stock ignition system or a distributor style aftermarket system. Aftermarket ignition boxes are prohibited.
20. **Interior:** A complete interior, including dashboard, door panels, headliners, etc., is mandatory. Two matching front seats are mandatory. Aftermarket seats are permitted; they must be fully upholstered. All factory controls (lights, signals, horn, windshield wipers, etc.) must be retained and be operative. The uses of hand-throttle controls are prohibited.
21. **Rear End:** Non-OEM rear-end housings are prohibited. It must have been an option on a one-ton or smaller pick up. Rear axle bolts must be covered by a cap or shield.
22. **Steering:** The vehicle must retain the full, original OEM steering gear. The vehicle must retain the original OEM power steering assistance, if it was so equipped.
23. Additional stabilizers are permitted. Non-OEM power assist methods are prohibited.
24. **Street Equipment:** Complete headlight and taillight assemblies (all) are mandatory and must be operative. Complete OEM windshield and windows are mandatory.
25. **Windows:** Must be operative per factory specifications: that is, they must open and close via OEM electrical or mechanical means.
26. **Suspension Front:** The upper mounting point for strut assemblies must be in the factory location. Adjustable caster/camber pillow ball mounts are permitted. The lower control arm may be strengthened provided factory-mounting points to chassis are maintained. The lower mounting point for the strut assembly may be modified for

improved caster or camber. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Front traction bars are prohibited.

27. **Suspension, Rear:** An OEM-style suspension is mandatory. All OEM suspension mounting points must be retained and used. All rear suspensions must use at least one working shock absorber per wheel. Limiting straps prohibited. Rear suspension blocks are permitted with at least 1" of suspension compression from ride height. Air bag spring assistance is permitted; air bag compressors must be disconnected.
28. **Rear traction bars or ladder bars are PERMITTED.** This is for Safety
29. **Tires:** The tires must be DOT approved tires. Cut tires, studded tires and tire chains are prohibited. Dual rear wheels are prohibited.
30. **Torque Converter:** Lock up torque converter boxes and controllers are prohibited.
31. **Transfer Case:** Non-OEM transfer cases are prohibited. The transfer case must have been an option on a one-ton or smaller pickup truck.
32. **Wheelbase:** The vehicle must retain the original factory wheelbase and track width.
33. Front and rear wheels must have same wheel offset. Final decision resides SPI Tech Officials.

## 6500 lb. ENHANCED GAS 4X4

1. **MANDATORY:** All drivers must have a current valid state driver's license.
2. Class weight is **MAXIMUM** 6,500 lbs with driver.
3. **Ballast:** Ballast is permitted. All ballast must be behind the front grill or securely mounted in rear bed. Ballast in cab permitted if secure.
4. **Batteries:** The batteries must be securely mounted. They cannot be in the driver compartment or forward of the radiator core support.
5. **Body:** The body must be an OEM truck body, including the full bed floor. The body must retain full sheet metal. Metal aftermarket hoods are permitted. Fiberglass is prohibited. The hood must be closed and securely latched while the vehicle is hooked to the sled. The complete OEM firewall and complete OEM floor pan is mandatory. Must have hood, grill, and fenders in place as intended by manufacturer.
6. Complete OEM firewall with no hole is required.
7. **Bumpers:** Front bumpers must be unaltered OEM or equivalent. No homemade bumpers allowed. Brush guards or lower plow frames are allowed as long as they appear unaltered.
8. **Brakes:** Four-wheel hydraulic brakes are mandatory.

9. **Chassis:** The OEM chassis is mandatory. The engine must be in the OEM location for the body used. The vehicle must retain the full OEM chassis. Wheel tubs, back-half conversions, tube chassis, etc. are prohibited.
10. **Cooling System:** Radiators must be in the vicinity of the stock location and be of at least stock size.
11. **Driveline:** An OEM transmission and transfer case is mandatory. They must have been an option on a one-ton or smaller pickup.
12. **Driver Restraint System:** The OEM restraint system is mandatory and must be worn.
13. **Driveshaft Loops:** All trucks must have a minimum of six-inch wide u-joint shields around the rear and the front u-joints constructed of at least ¼ inch steel or 3/8-inch aluminum that will safely contain the u-joints and the end of the rear shaft. Chain safety loops are not permitted. Drive shafts must have at least two loops on each shaft with a minimum of 3/4" wide and 1/8" thick steel or 1/4" aluminum with a minimum of 2" clearance.
14. **Engine:** The engine block must have been available as a factory option on a one-ton or smaller pickup truck. Blocks must circulate coolant freely. Water pumps must be present, but may be powered electrically. The use of concrete or other block fillers is prohibited. All factory belt driven accessories, excluding the air conditioning compressor, must be retained and powered via the crankshaft by a standard serpentine or "V" belt. Electric fans are permitted. Aftermarket radiator assemblies are permitted, but must be securely mounted in the same area as the OEM unit.
15. **Maximum cubic inch:** Limit is 500 cu in +/- 1 percent OEM fuel injection allowed if using OEM fuel lines/rails. Aftermarket cast blocks allowed, Aftermarket intakes allowed. Single piece 4-barrel carburetor limited to a 1450 style base. No dominators or split



carburetors allowed. Engine driven fans require 360-degree metal shielding. Aluminum heads allowed on small block engines ONLY!

16. **Exhaust:** Must exit behind cab. Open exhaust is permitted.
17. **Fire Extinguisher System:** A minimum of a 2lb fire extinguisher must be loaded and in the vehicle.
18. **Fuel:** Gas is the only fuel permitted. Aftermarket fuel cells are allowed. Use of **Alcohol** is prohibited
19. **Harmonic Balancer:** Must be SFI approved. Or be shielded 360 degree with  $\frac{1}{4}$  in steel.
20. **Hitch:** Hitch pin may be no smaller than grade 8 5/8" pin/bolt. Must be attached to the frame only including bracing and supports. No bracing or supports can be attached to the body, Axle, or the suspension. Hook point cannot exceed 26" from the ground. Hook point of hitch must be the furthest point back of the truck. No point of the hitch may attach forward of the center line of the rear axle. Sled stops are the only thing that may extend rearward of the hitch.
21. **Interior:** No batteries, water hoses, fuel lines allowed in cab.
22. **Nitrous Oxide:** Propane AND THE USE OF OTHER OXYGEN EXTENDERS ARE PROHIBITED. All system components MUST be removed.
23. **Rear End:** Non-OEM rear-ends housings are prohibited. The rear end must have been an option on a 1-ton or smaller truck. Rear axle bolts to be covered by a cap or shield.
24. **Safety:** All trucks must have a working kill switch with a minimum of a 2" round diameter ring. Located in the rear center of the

truck easy to reach and free from the chain and draw bar. When pulled must kill all power to the ignition and fuel pump.

25. **Drivers must wear a helmet.** All other safety and general rules must be followed.
26. **Steering:** The vehicle must retain the full, original OEM steering gear. The vehicle must retain the original OEM power steering assistance, if it was so equipped. Additional stabilizers are permitted. Non-OEM power assist methods are permitted.
27. **Suspension:** The factory suspension configuration must be retained. The upper mounting point for strut assemblies must be in the factory location.
28. **Adjustable caster/camber:** Pillow ball mounts are permitted. The lower control arm may be strengthened provide factory-mounting points to chassis are maintained. The lower mounting point for the strut assembly may be modified for improved caster or camber. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Traction bars and devices are permitted.
29. **Suspension, Rear:** An OEM-style suspension is mandatory. Traction bars and devices are permitted; they must be bolt on only; welds are permitted for attachment to frame or axle housing. Control arms may be strengthened or replaced, provided all original mounting points are retained. Strut tower braces, lower tie bars, sway bars, limit straps, and camber kits are permitted. The rear suspension may be bolted solid to eliminate travel. Blocking of the rear suspension is permitted.
30. **Tires:** The tires must be DOT street tires. Cut/Altered tires are prohibited.

31. **Transfer Case:** Non-OEM transfer cases are prohibited. It must have been an option on a one-ton or smaller pickup truck.
32. **Transmission:** Must be from a passenger vehicle rated one ton or less. All trucks require a reverse light. Automatic transmissions require a 3 strap SFI approved blanket or a SFI approved Kevlar shield. Manual transmissions require an SFI approved bell housing.
33. **Wheelbase:** The vehicle must retain the original factory wheelbase and track width. Front and rear wheels must have same wheel offset. Final decision resides with Tech Officials. **6200**

#### **LB. STREET MODIFIED GAS – RULES**

1. This class is open to street modified 4x4 trucks. **Trucks MAY be hauled to the pull.**
2. **Tires:** No dual wheels, studded tires, or tire chains permitted. All tires must carry a D.O.T. number on the side wall. No cut, siped, altered, or sharpened tires. MAX TIRE SIZE 35x12.50. No more than half tire offset from front to rear tire paths.
3. **Ballast:** Ballast may be added on the front of the vehicles, but must be securely fastened to the truck and not extend more than 60 inches from the center line of the front wheels or 193" from center or rear axle.(whichever is less) No snowplow blades are allowed. Snowplow frames are acceptable. If any weight is lost during hook, you will be disqualified
4. **Hitch:** Trucks must pull from a Class 3 or drawbar hitch. Hitch must be safe (no pulling from bumper). Hitch length to be a minimum of 36% of wheel base from center of rear axle to hook. Drawbar may not be connected to, or supported by any part of the chassis except the frame. Hitch point may not be more than 26" from the ground, nor extend past the center or the rear axle. The hole for hitching must accommodate a minimum of 3.5 inches across.

5. **Engine:** Only cast iron blocks allowed, both cast heads and aluminum heads are allowed in the Street modified class. Aluminum intake and headers are permitted. Trucks may use anything for carburetors, but must use only one. Nitrous oxide, propane, or other oxygen extenders prohibited. Motor must be naturally aspirated. Engine swaps between manufacturers are NOT permitted. Maximum engine size of 599 cubic inch. Engine must be mounted within 3" of factory location.
6. **Exhaust:** Open exhaust permitted. Headers permitted and may be upward or downward direction
7. **Body:** Trucks must maintain all OEM sheet metal, including intact firewalls. If bed floors have been previously removed, they must add a bed liner or tonneau cover to maintain appearance of Street Vehicle. Fiber glass permitted for hood scoops only. Must maintain factory windshield and rear window glass, including functional headlights and taillights. Trucks may use racing seats, but interiors must be intact (Door panels, dashboard) seatbelts, etc.) Racing seat with harness recommended-Not required. No tilt bodies, center seat driver controls permitted. No fuel lines running inside the truck cab. Tech official reserves right to deduct ballast from front of truck if modifications have been done to unfairly lighten vehicle compared to competitors within the class.
8. **Chassis:** OEM 1-ton or smaller drive train permitted only. No drop boxes permitted. No tube frames, or back half conversions. Rear suspension must maintain full factory leaf spring suspension (Min 5 leaf springs). Solid suspensions permitted by any means (blocking solid, stacking leafs, or removal of spring shackles) Front or rear traction bars permitted. 3 or 4 link suspensions not permitted in front or rear unless factory equipped.
9. **Brakes:** Min of 2 brakes on at least 1 axle. Manual brakes permitted, but no drive line brakes permitted

10. **Safety:** Trucks must have kill switches that work, drivers must wear helmets and have fire extinguishers. Driveshaft safety loops: Min 6" wide @ front/rear u-joints (min ¼ Steel or 3/8 Alum). Safety chains not permitted. Reverse light mandatory-Neutral light recommended. Automatic transmissions require 3 strap SFI blanket or Kevlar. Standard transmission must us SFI approved bell housing. Blanket over transfer case recommended. Electric fuel pumps must be shut off by kill switch.
11. **Cooling:** Radiator must be in stock location and at least the size of the factory equipped. Electric water pumps permitted

12. **DRIVERS MUST WEAR A HELMET IN THIS CLASS.**

**6200 LB SUPER STOCK GAS- RULES**

1. Max weight of vehicle and driver to be 6200 pounds.
2. Radiators must be maintained and ahead of engine
3. Engine must be behind grill.
4. Dry sump oiling systems permitted.
5. Headers can be upright or downward, open exhaust permitted.
6. Tube frames and modified OEM frames are permitted.
7. Max wheel base 135".
8. DOT street tires- but may be altered. No bar tires permitted
9. Trucks must have working kill switches, driveline shielding, fire extinguishers, etc
10. Drivers must have fire extinguishers and wear seatbelts.

## 11. Fiberglass bodies permitted

### **MODIFIED 4X4 TRUCKS**

1. Maximum weight of competition vehicle is 6200 pounds.
2. Cubic inch limit is 650.
3. Any automotive type engine must be naturally aspirated with only two valves per cylinder and must accept a stock automotive crankshaft.
4. Rear of engine block can be no farther forward than the centerline of the front axle.
5. Maximum bore spacing allowed is 5.00”.

6. Engine must be behind grill.
7. Front weights may not extend more than 60 inches from centerline of front axle. No loose weights allowed in cab or under hood.
8. Truck or van bodies permitted and must have complete firewall.
9. Planetary axles are permitted.
10. Tube frames are permitted.
11. Axle shields are required. Shield to be .060" thickness steel or aluminum. Shield not to be mounted to axle ends or hub bolts. A single hole may be cut in one to allow locking in of hubs.
12. Maximum wheelbase is 133 inches on all Modified 4X4 trucks. Wheels must be centered in wheel wells. Body must be lengthened or shortened between cab and rear wheel wells, to maintain rear wheels centered in rear wheel well.
13. Front tow hitch will be strong enough to push, pull or pick the vehicle up. Only a 6x6 piece of steel with a minimum thickness of 1" and a maximum of 1.25" thickness will be allowed. A round three (3) inch hole is required in front tow hitch.
14. Maximum tire size to be 112-inch circumference, when inflated to 30 psi with original bar, not to exceed 18 inches in width before cutting.
15. Clear Plexiglas or factory tint glass permitted.
16. No mud flaps or dirt deflectors will be permitted.
17. No fuel tanks, fuel lines, pressure gauges or pumps allowed in cabs. All hydraulic lines in cab must be shielded top and sides with a minimum of .060 aluminum.

18. All air or hydraulic suspension systems cannot have hydraulic, air, or electric lines attached to these devices during competition.
19. Hitch height maximum is to be 26" at point of hook before, during, and after pull.
20. Hitch must be rigid in all directions and solidly mounted. Pulling point can be no more than 1 inch from back edge of drawbar. No clevis, chains, or cables permitted.
21. in hitching device. From point of hook to centerline of rear axle shall be no less than 30% of truck wheelbase and shall not slope any greater than 33 degrees to hitch point.
22. No hitch supports or adjusters, if fastened to the rear axle housing shall be above the center line of the rear axle. Pivot pin of drawbar can be no farther forward than centerline of the rear axle.

**8500 lbs 2.5 WORKSTOCK 4X4**

1. Class weight is 8500 lbs maximum with driver.
2. **Ballast:** Ballast is permitted. Hanging/hidden front weights are prohibited. Ballast may be added in the bed of the truck. If used, ballast must be securely fastened to the bed of the truck. Final decisions rest with the tech official. Ballast in cab is prohibited.



3. **Batteries:** The Batteries must be securely mounted. They may not be located in the driver compartment or forward of the radiator core support.
4. **Body:** The body must be OEM truck body, including the full bed floor. The body must retain all original sheet metal. The hood must be closed and securely latched while the vehicle is hooked to the sled. The complete OEM firewall and OEM floor pan is mandatory.
5. **Brakes:** Four –Wheel hydraulic brakes are mandatory and must be functional.
6. **Chassis:** The OEM chassis is mandatory. The engine must be in the OEM location for the body being used. The vehicle must retain the full OEM chassis. Wheel tubs, backhalf conversions, tube chassis, etc are prohibited.
7. **Cooling Systems:** Radiators must be in the stock location and must be must be of at least stock size.
8. **Credentials:** All drivers must have a current valid driver’s license.
9. **Driveline:** An OEM transmission and transfer case are mandatory. They must have been an option on a one-ton or smaller pick up.
10. **Driver Restraint System:** The OEM restrain system is mandatory and must be worn. Helmet must be worn when pulling.
11. **Drive Shaft Loops:** All trucks must have a minimum of 6” wide Ujoint shields around for rear U-Joint to accumulate points. Constructed of at least quarter inch steel or 3/8-inch aluminum that will safely contain the U-joint and the end of the rear shaft. Any Ujoint on the front axle that can be seen from the front or the side of the truck must be shielded the same as all other u-joints. All shielding must be securely mounted to the vehicle.

12. **Engine:** The engine is limited to a stock appearing, OEM compression engine, available from the factory in a one ton or smaller truck. Cubic inch limit of 444 cu in.
13. **Blocks:** must circulate coolant freely. No hard-filled blocks. Water pumps may be electric or factory. All factory belt driven accessories, excluding air conditioner compressor must be retained and powered via the crankshaft by a standard serpentine or v belt or belts. Electric cooling fans are permitted. NO SIDE DRAFT/RUNNER STYLE INTAKES PERMITTED.
14. **Exhaust:** The exhaust must exit rearward of the driver's compartment. Stacks exiting through the hood or fender well are prohibited. If the muffler or catalytic converter have been changed from stock, two 3/8-inch diameter bolts must be installed through the exhaust pipe in a cross pattern within one inch of each other as close to the turbo as is practical. Upward exhaust required for all vehicles pulling for points.
15. **Fire Extinguisher System:** A fire extinguisher system is permitted. It must be securely mounted. All vehicles must have at least a 2 ½ lb. fire extinguisher with working gauge mounted within drivers reach.
16. **Fuel:** The fuel must be pump #1 or #2 diesel only. Soy/Bio-diesel fuel is permitted.
17. **Off-road diesel fuel is prohibited.**
18. **Fuel Injection Pump:** The fuel injection pump is limited to cylinder number specific (i.e. 6-cylinder pump on 6-cylinder motor). Dual high pressure common rail fuel pumps or HPOPs are permitted. The P pumps that are allowed are the p3000 and the p7100. Ag governors are not allowed. No sigma or 12 cylinder pumps allowed.
19. **Fuel System:** The OEM tank is mandatory and must be used. Racing fuel cells are prohibited and must be removed from the vehicle.

20. **Harmonic Balancer:** All engines turning 4500 RPM and higher must be equipped with a harmonic balancer or damper meeting SFI Spec 18.1.
21. **Hitch:** The hitch must be a receiver-style hitch; reinforcements are permitted.
22. **Reinforcements** must not extend forward of the centerline of the rear axle and must remain inside of the frame rails. The hooking point may be no closer than 44" from the centerline of rear axle (will be measured where sled hook rests). The hitch must be horizontal to the ground and stationary in all directions. Bumper may be notched or removed. Hitch height from the ground may not exceed 26 inches. The hooking point must have a minimum 3x3.75 inches inside diameter opening for the sled hook. Trick hitches/drawbar style are prohibited. Trick hitches will be determined by SPI tech official.
23. **Intercoolers:** Factory style or aftermarket air to air replacement only in the stock location. **AIR TO WATER INTERCOOLERS ARE PROHIBITED.** Any means of cooling the air before the engine is prohibited. **NO USE OF ICE OR WATER.**
24. **Interior:** A complete interior, including dashboard, door panels, headliners, etc. is mandatory. Two matching front seats are mandatory. Aftermarket seats are permitted; they must be fully upholstered. All factory controls (lights, signals, horn, window's, wipers ect.) must be retained and be operative. The use of handthrottle controls are prohibited.
25. **Nitrous Oxide/Propane:** Nitrous Oxide is prohibited. No other oxygen extenders are allowed. Propane is prohibited. All system components must be removed from the truck. No pressurized bottles.

26. **Rear-end:** Non-OEM rear-end housings are prohibited. It must have been an option on a one-ton or smaller pick up. Rear axle bolts must be covered by a cap or shield.
27. **Steering:** The vehicle must retain the full, original OEM steering gear. The vehicle must retain the original OEM power steering assistance, if it was so equipped. Additional stabilizers are permitted. Non- OEM power assist methods are prohibited.
28. **Street Equipment:** Complete headlight and taillight assemblies (all) are mandatory and must be operative. Complete OEM windshield and windows are mandatory.
29. **Windows:** must be operative per factory specifications: that is, they must open and close via OEM electrical mechanical means.
30. **Suspension, Front:** The factory suspension configuration must be retained.
31. **Modifications to the front suspension** that would alter the original location (I.e. moving it forward or backward) is not permitted. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Traction bars and devices are permitted.
32. **Air shocks are prohibited.** Final decision rest with the SPI tech department.
33. **Suspension, Rear:** An OEM- style suspension is mandatory. Traction bars and devices are permitted; they must be bolt-on only; welds are permitted for attachment to frame or axle housing. All OEM suspension mounting points must be retained and used. All rear suspensions must use at least one working shock absorber per wheel. Limiting straps prohibited. Rear suspension blocks are permitted with at least 1" of suspension compression from ride height. Air bag spring assistance is permitted; air bag compressors must be disconnected.

34. **Tires:** Tires must be DOT street tires. Cuts tires are prohibited. The use of dual rear wheels is prohibited.
35. **Transfer case:** Non-OEM transfer cases are prohibited. The transfer case must have been an option on a one-ton or smaller pickup truck.
36. **Transmission, Automatic:** Non-OEM transmissions are prohibited. All vehicles with engines running 4500 RPM or more using an automatic transmission must be equipped with a transmission shield meeting SFI Spec 4.1 and must be labeled accordingly. A blanket-type shield is permitted; it must be appropriately labeled as meeting SFI Spec 4.1 and it must extend from the rear of the block to the front of tail housing with a minimum of six-inch overlap where it is fastened. All non-blanket type shields must incorporate two (or one, per manufacturer's instructions)  $\frac{3}{4}$  inch by  $\frac{1}{8}$  inch straps that bolt to the shield on each side and pass under the transmission pan unless the transmission pan is labeled as meeting SFI Spec 4.1. All vehicles with engines running 4500 RPM or more and using automatic transmissions must be equipped with flex plate meeting SFI Spec 29.1 and covered by a flex plate shield meeting SFI Spec 30.1.
37. **Transmission, Manual:** Non-OEM transmissions are prohibited. A clutch meeting minimum SFI Spec 1.1 or 1.2 is mandatory on all vehicles with engines running 4500 RPM or more. All manual transmissions must be clutch assisted. Sequential shifters are prohibited. All vehicles with engines running 4500 RPM or more equipped with a manual transmission must have a flywheel shield labeled as meeting minimum SFI Spec 6.3 or greater. Applications for which an SFI Spec flywheel shield is not available may use a properly attached SFI 4.1 OR 4.2 blanket that completely covers the bell housing, it must be attached to the block and extend rearward to the transmission with a minimum of six-inch overlap where it is fastened.

38. **Turbocharger:** The engine is limited to a single small frame (S300, GT4094, HX40 or smaller) turbocharger, the compressor inducer being 2.5" in diameter and will be measured using a 2.55" plug. Bushings are permitted but must be non-removable, the bushing must maintain a 2.5" diameter for at least 0.250" in front of the compressor wheel, and may be no farther than 0.175" from the face of the compressor wheel at any point. A map width enhancement (MWE) groove is allowed in the original location with a maximum width no greater than 0.200" at any point, any provision allowing air into the wheel other than via the bore and MWE groove is prohibited. Ford 6.4L Power Stroke engines may utilize the factory compound turbo configuration in OEM stock form only (2.59") atmosphere inducer. Aftermarket exhaust manifolds are permitted with a flange dimension no larger than T4 (3.500 x 2.750"). The vehicle's driver will be responsible for making the compressor wheel/bore accessible for inspection by the SPI Tech Officials.

Turbocharger; 2.6" Smooth Bore: The vehicle is limited to a single 2.6" inducer bore turbocharger. The compressor wheel must protrude into the 2.6" bore no less than 1/8". The inlet will be measured using a 2.605" plug, the plug must not be able to enter the inducer bore. MWE grooves are prohibited, the turbo inlet must be smooth bore. The vehicle's driver will be responsible for making the compressor wheel/bore accessible for inspection by the Tech Officials.

39. **Water Injection:** A Water injection is prohibited. All system components must be removed from truck.

40. **Wheelbase:** The vehicle must retain the original factory wheelbase and track width.

41. **Front dual wheel:** spacers may be used only with accompanying positive-offset dually style wheels. Front and rear wheels must have same wheel offset. Final decision resides with Tech Officials

### **8000 Lbs 2.6 DIESEL 4X4**

1. Class weight is **8000 lbs** with driver.
2. **Ballast:** Ballast is permitted. Front hanging weights may not extend more than 60 inches from the centerline of the front axle.
3. **Batteries:** The batteries must be securely mounted and concealed. They may not be located in the driver compartment.
4. **Body:** The body must be an OEM truck body, including the full bed floor. The body must retain full sheet metal. The hood must be closed and securely latched while the vehicle is hooked to the sled. The complete OEM firewall and complete OEM floor pan is mandatory. A factory install or commercial style aftermarket bed must be installed. No Flat beds. Must have complete bed floor.
5. **Brakes:** Front hydraulic brakes are mandatory.
6. **Chassis:** The OEM chassis is mandatory. The engine must be in the

OEM location for the body used. The vehicle must retain the full OEM chassis. Wheel tubs, back-half conversions, tube chassis, etc, are prohibited.

7. **Credentials:** Drivers must have a current valid state driver's license.
8. **Driveline:** An OEM transmission and transfer case is mandatory. They must have been an option on a one ton or smaller pick up. Open driveline allowed with 3.0 smooth bore turbo only.
9. **Driver Restraint System:** The OEM restraint system or SFI approved 5-point harness is mandatory and must be worn.
10. **Drive Shaft Loops:** All trucks must have a minimum of 6" wide Ujoint shields around for rear U-Joint. Constructed of at least quarter inch steel or 3/8-inch aluminum that will safely contain the U-joint and the end of the rear shaft. Any Ujoint on the front axle that can be seen from the front or the side of the truck must be shielded the same as all other u-joints. All shielding must be securely mounted to the vehicle.
11. **Engine:** The engine block must have been available as a factory option on a one ton or smaller pickup truck. Cubic Inch limit of 460 CI. Water pumps may be factory or electric powered. Electric cooling fans are permitted. No billet aluminum or billet steel heads. NO DECK PLATE ENGINES PERMITTED.
12. **Exhaust:** All vehicles must be equipped to direct exhaust upward including stock exhaust systems. Hood stacks are permitted. Two 3/8-inch diameter bolts must be installed threw the exhaust pipe in a cross pattern within one inch of each other as close to the turbo as is practical.
13. **Fire Extinguisher System:** A fire extinguisher is permitted, it must be securely mounted. All vehicles must have at least a 2 ½ LBs extinguisher with a working gauge mounted within drivers reach.



14. **Fuel:** The fuel must be pump #1/#2 diesel only. Soy/Bio diesel fuel is permitted. A fuel cell may be used in place of the factory fuel tank; fuel is not permitted in driver's compartment.
15. **Fuel Injection Pump:** A fuel injection pump is limited numbers specific (I.e. 6 cylinders pump on a 6 cylinder motor). Dual high pressure common rail fuel pumps or HPOPs are permitted. AG governors are permitted. No Sigma or 12 cylinder pumps allowed.
16. **Harmonic Balancer:** All engines turning 4500 RPM or higher must be equipped with a harmonic balancer or damper meeting SFI Spec 18.1.
17. **Hitch:** Hook point must be no closer than 44 inches of centerline of rear axle (will be measured where sled hook rests). Hitch height maximum of 26 inches for 4-wheel drive pickups and maximum 30" for 2-wheel drive with a minimum of a 3.0"x3.75" opening. Hitch point must be easily accessed. No "trick" type hitches permitted.
18. **Hitch** must be stationary in all directions. Reinforcements must not extend forward of the centerline of the rear axle and must remain inside of the frame rails. Hitch must not exceed a maximum of 25degree angle from pivot point to hook point.
19. **Intercoolers:** Factory style or aftermarket intercoolers are allowed. Water to air intercoolers allowed. Ice and water must be weighed at time of crossing the scales.
20. **Interior:** The vehicle must be equipped with at least one seat for the driver; it must be properly installed. Either the normal foot throttle or an approved spring-loaded hand throttle will be permitted in this class. (See General Rules)
21. **Kill switches:** All trucks are required to have a kill switch located on the back of the truck, located near the hooking point. They must have an air guillotine of the spring-loaded type. If during competition the kill switch slides loose or falls out distance will be measured. Securing the kill switch is the driver's responsibility.

22. **Nitrous Oxide:** Nitrous oxide is prohibited. No other oxygen extenders are allowed.
23. **Propane is prohibited.** All system components must be removed from the truck.
24. **Rear-end:** Non-OEM rear-end housing are prohibited. The rear-end housing must have been for a one ton or smaller pick up. Rear axle bolts must be covered with a cap or shield.
25. **Safety Equipment:** All drivers must wear a helmet, long pants, not necessarily fire suit pants, leather shoes.
26. **Steering:** The vehicle may retain the original OEM steering gear or use of hydraulic steering. Additional stabilizers are permitted.
27. **Street Equipment:** Complete headlight and tail light assemblies (all) are mandatory. Complete OEM windshield is mandatory. Driver's window must be operative.
28. **Suspension, Front:** The factory suspension configuration must be retained. Modifications to the front suspension that would alter the original location (i.e. moving it forward and backward) is not permitted. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Traction bars and devices are permitted. Air shocks are prohibited.
29. **Suspension, Rear:** Solid rear suspension permitted. Air bag spring assist permitted.
30. **Air bag compressors must be disconnected.**
31. **Tires:** The tires must be D.O.T street tires, with a tire limit size of 35 inches. Cut tires are prohibited.
32. **Transfer Case:** Non-OEM transfer cases are prohibited. It must have been an option on a one ton or smaller pickup truck.

33. **Transmission, Automatic:** Non-OEM transmissions are prohibited. The transmission must have been an option for a one ton or smaller pickup truck.
34. **Aftermarket torque converters,** valve bodies and internal components are permitted. Transmission brakes are prohibited. ANY Non-OEM floor mounted automatic shifter must be equipped with a spring-loaded positive reverse lockout device to prevent the shifter from accidentally being put into reverse. A functional neutral safety switch is mandatory. Vehicle must not start in gear. All transmission lines must be metallic or high pressure type hose. All automatic transmissions must be equipped with a transmission shield meeting SFI Spec 4.1 and must be labeled accordingly. A blanket type shield must be used and appropriately labeled as meeting SFI Spec 4.1 and it must extend from the rear of the engine block to the rear of the tail housing with a minimum of six inch overlap where it is fastened. All vehicles using an automatic transmission must be equipped with a flex plate meeting SFI Sec 29.1
35. **Transmission, Manual:** Non-OEM transmissions are prohibited. The transmission must have been an option on a one ton or smaller truck. Aftermarket internal components are permitted. A clutch meeting minimum SFI Sec 1.1 or 2.1 is mandatory on all engines. All manual transmissions must be clutch assisted. Sequential shifters are prohibited. All transmissions must have a fly wheel shield labeled as meeting minimum SFI Spec 6.3 or greater. Applications for which an SFI Spec fly wheel shields is not available may use properly attached SFI 4.1 or 4.2 blankets that completely covers the bell housing. It must be attached to the rear of the engine block and extend rearward to the transmissions with a minimum of six-inch overlap where it is fastened. All transmissions or clutch pedals will have a safety interlock switch so that the vehicle will not start in gear.
36. **Turbocharger; 2.6"** Non-Protrusion: The engine is limited to a single turbocharger, the compressor inducer being 2.6" in diameter and will be measured using a 2.65" plug. Bushings are permitted but

must be non-removable, the bushing must maintain a 2.6" diameter for at least 0.250" in front of the compressor wheel, and may be no farther than 0.175" from the face of the compressor wheel at any point. A map width enhancement (MWE) groove is allowed in the original location with a maximum width no greater than 0.200" at any point, any provision allowing air into the wheel other than via the bore and MWE groove is prohibited. The vehicles driver will be responsible for making compressor wheel accessible for SPI tech personnel to measure bore and able to inspect compressor wheel.

37. **Turbocharger; 2.6" Protrusion:** The vehicle is limited to a single 2.6" inducer bore turbocharger. The compressor wheel must protrude into the 2.6" bore no less than 1/8". The inlet will be measured using a 2.650" plug, the plug must not be able to enter the inducer bore. A map width enhancement (MWE) groove is allowed with a maximum width no greater than 0.200" at any point, and an overall diameter no greater than 3.700" at any point. Any provision allowing air into the wheel other than via the bore and MWE groove is prohibited. The vehicle's driver will be responsible for making the compressor wheel/bore accessible for inspection by the SPI Tech Officials.
38. **Turbocharger; 3.0" Smooth Bore:** The vehicle is limited to a single 3.0" inducer bore turbocharger. The compressor wheel must protrude into the 3.0" bore no less than 1/8". The inlet will be measured using a 3.005" plug, the plug must not be able to enter the inducer bore. MWE grooves are prohibited, the turbo inlet must be smooth bore. The vehicle's driver will be responsible for making the compressor wheel/bore accessible for inspection by the SPI Tech Officials.
39. **Water Injection:** Water injection is prohibited. All system components must be removed from truck.
40. **Wheelbase:** The vehicle must retain the original factory wheel base and track width. Cab and chassis trucks may not exceed 172 inches. Center to center of axles.
41. **Front dual wheel spacers** may be used only with accompanying positive-offset dually style wheels

### **9,000 LB. MODIFIED DIESEL – RULES**

1. This is an open modified diesel truck class. Trucks MAY be hauled to the pull.
2. No studded tires or tire chains. Tires may be cut. Diesel trucks with dual rear wheels (2WD and 4WD) may enter and run in this class.
3. Pulling hitches are permitted. Hitch point may not be more than 26" from the ground. The hook point must be the furthest point to the back of the truck. Hook point must be past the bed of the truck if there is no bumper, or past the end of the bumper. Each truck driver must supply his/her own twisted

clevis. The hole for hitching must accommodate a minimum of 3.5 inches across.

4. No aluminum engine blocks are permitted unless O.E.M. No open headers will be allowed. Diesel fuel additives are permitted. Dual turbochargers are permitted.
5. Solid suspensions are permitted. Lift kits are acceptable. Traction bars may be used.
6. Weights on the front of vehicles must be securely fastened to truck and must not extend more than 60 inches from the center line of the front wheels. No snowplow blades are allowed. Snowplow frames are acceptable. The wheel base may not be changed from the original manufacturer. Wooden flatbeds are permitted.
7. Drivers MUST wear a helmet in this class.
8. SEE OPERATION OF CONTEST RULES.

### **PROTEST PROCEDURE**

1. All protests must be made in writing and submitted and signed within five (5) minutes of class being protested has completed. Protest must clearly define three items, (A) Who is protested, (B) What they are protested for, limited to one (1) item per protest, and (C) who is protesting.
2. All protest fees will be in cash. If protested vehicle is found legal, then fee will be forfeited to person found legal. If vehicle is illegal, then vehicle is disqualified with a loss of purse & points and fee is returned to protester.
3. Fee for protest is as follows:

A. Cubic Inch- \$1000. Complete tear down. A 1% variance will be given for wear and tear. \$100 from protest fee for teardown is paid to the OFFICIAL in charge of the teardown. Remainder of teardown fee is returned to protester or given to protested party pending outcome of teardown.

B. Fuel, Visual, Turbo, Performance Enhancements, etc.-\$500. Any competitor knowingly competing with a performance enhancing equipment or illegal fuels and verified by a Head Tech Official at the event will be disqualified for a period of one year and ten days and including actions discovered by protests, at all associated Fair events. Suspensions will include driver and vehicle.

4. The officials and the protested are the only people allowed near the vehicle during protest.

5. Anyone causing disruption during a protest will be disqualified.