

# Northwest Iowa Tractor Pullers

## 2024 Rules

### Officers

Brian Woelber—President

Doug & Elaine Cherry—Vice President

Tyler Jorgensen—Secretary/Treasurer

### Inspectors/Rules Committee

Eric Spanjer

Courtney Schiebout

Adam Metcalf

Mike Meyer

Jim Kokes

Scott Spanjer

**It is the duty and responsibility of all participants to read and obey the following rules:**

**To be eligible for awards you must attend 60% of all pulls. All paid members can vote on awards.**

### Classes

|                       |                    |                        |
|-----------------------|--------------------|------------------------|
| Stock single cylinder | 950 lb.-1050 lb.   | Limited to 18 hp       |
| Stock V-twin          | 950 lb.-1050 lb.   | Limited to 18 hp       |
| Stock Altered         | 975 lb.-1075 lb.   | Limited to 20 hp       |
| Limited Modified      | 1150 lb.-1250 lb.  | Limited to 800 cc      |
| Unlimited Modified    | 1225 lb.-1325 lb.  | Limited to 1500 cc     |
| 4-Cylinder Mini-Rod   | 1500 lb.- 1600 lb. | Limited to 4 cylinders |
| 8-Cylinder Mini-Rod   | 1825 lb.-1925 lb.  | Limited to 8 cylinders |

### Sponsor Information

1. A tractor with a blade or a box scraper will be needed.
2. A public address system is needed to keep the spectators informed and interested.

3. Restroom facilities must be available.
4. We suggest that you have a spectator liability insurance policy in effect.
5. Our club will take care of the weighing, signing-in, positioning, and lining up the tractors for the pull.
6. The entry fee that we collect from the tractors will be used to pay our track expenses, and insurance premiums.
7. Our classes are: 950 lb. Stock, 1050 lb. Stock, 975 lb. Stock Altered, 1075 lb. Stock Altered, 1150 lb. Limited Modified, 1250 lb. Limited Modified, 1225 lb. Unlimited Modified, 1325 lb. Unlimited Modified, 1500 lb. 4 Cylinder Mini-Rod, 1600 lb. 4 Cylinder Mini-Rod, 1825 lb. 8 Cylinder Mini-Rod, and 1925 lb. 8 Cylinder Mini-Rod.
8. If you charge admission, we request that you exempt the tractor tow vehicle, tractor driver, and one pitman per tractor.
9. The track will be constructed of a dirt base free of rocks, gravel, and other debris.
10. The track must be a minimum of 250 feet in length, a minimum of 20 feet in width, and a maximum of 30 feet. A track 300 feet by 25 feet is preferred, with 50 feet for the sled and shut down. We suggest an area at least 10 feet wide between the side markers and the spectator area.
11. We will share a program with two tracks, but we will not share a track during our program.

## Membership Information

1. A fee of \$20.00 will be collected for each single membership or \$50.00 for a family membership (parents and children 5-18) per year. A \$40.00 fee will be charged for insurance premiums for each member. Memberships are non-cancelable and non-transferable.
2. Non-members will sign a release form and be charged \$10.00 per hook and \$20.00 to cover insurance. points, and position will not be awarded or counted to non-members, and members will advance in placing.
3. A fee of \$5.00 will be charged per hook for members. A 6 hook ticket for \$25.00, and a 13 hook ticket for \$50 is available. Pulling positions will be drawn before each pulling event. Signup will start 1.5 hours before the event and will run until 0.5 hours before pull starts.  
**NO LATE SIGNUPS ALLOWED!** (Call if going to be late to get signed in)
4. A President, Vice President, Secretary, Treasurer, and a five-person rules committee will be elected from the membership for a one-year term at the annual officers meeting. To be eligible to be an officer, one must be an active member one year prior to election **(Attend 80% of all pulls)**. The duties of the officers will be:
  - a. President will set up, and conduct all meetings and fill in if a rules member is absent at a pull. He/she is also responsible for point standing sheets.
  - b. Vice President will sign in pullers at each event. He/she will fill in for the president in his/her absence. He/she is also responsible for point standing sheets, and signing up new members.
  - c. Secretary/Treasurer is responsible for mailing all correspondence, and rewriting rules when necessary. He/she is also responsible for point standing sheets, and all financial transactions, records, insurance premiums, and coverage. Secretary/Treasurer shall provide every member a balance sheet at the beginning and end of each season.

- d. Rules committee will consist of five members. This committee is in charge of tractor inspections. Rules committee is also in charge of handling any rule controversies that may arise before, during, or after a tractor pull among members, and/or tractors. Any disputes that cannot be settled among the rules committee will be settled by the President, and other officers if necessary.
  - e. All officers and rules committee members will have a copy of the current rules at each event
  - f. A copy of the current rules will be available on line before the first pull.
5. All active members will vote on rules and officers. To be an active member you must attend 4 pulls and be a paid member..
6. A. 15-point system will be used, awarding points as follows:
- |                         |  |
|-------------------------|--|
| 1st place.....15 points | 8th place.....8 points                     |
| 2nd place.....14 points | 9th place.....7 points                     |
| 3rd place.....13 points | 10th place.....6 points                    |
| 4th place.....12 points | 11th place.....5 points                    |
| 5th place.....11 points | 12th Place.....4 points                    |
| 6th place.....10 points | 13th Place.....3 points                    |
| 7th place.....9 points  | 14th Place.....2 points                    |
|                         | 15th place and on if more tractors 1 point |
- B. Each tractor will receive 5 points (light and heavy class) for being inspected on the scheduled inspection day.
7. All events are point pulls. Any tractor hooking to the sled and making a measurable pull (one inch or more) will be awarded one point or position points, whichever is more. In a case in which a driver refuses 1st attempt to take 2nd attempt, and is unable to return, he/she will be awarded last place points. All non-member positions will be eliminated and the following positions will advance with points being awarded for that position. A member's tractor driven by a non-member will not receive points. In the event of a disqualification, the tractor will receive last place points.  
In the event of going out-of-bounds, the tractor will receive last place points.
8. In case of a rainout or sled breakage, all completed classes will receive earned points and all tractors present in uncompleted classes will receive five points per class in which they are signed up for. If the event is rescheduled, it will be considered a new pull with new points.
9. Anyone caught cheating will forfeit all points to date, and will be restricted from pulling at the next two NITP pulling events. This includes the driver and the tractor.
10. All tractors will be assigned a three-digit number, which shall be visibly displayed on the **front and the rear** of the tractor. The digits will be at least three inches high.
- Numbers will designate classes as follows:
- |              |                         |
|--------------|-------------------------|
| 100-199..... | Stock and Stock Altered |
| 200-299..... | Limited Modified        |
| 300-399..... | Unlimited Modified      |
| 400-499..... | 4 Cylinder Mini-Rod     |
| 800-899..... | 8 Cylinder Mini-Rod     |
11. Any driver participating at a NITP sponsored or co-sponsored event will be covered by NITP liability insurance.

## DRIVERS

1. All drivers must be fully capable of handling the tractor.
2. Drivers must be a minimum of the following ages to drive in the following classes:

|                       |          |
|-----------------------|----------|
| Stock single & V-twin | 5 years  |
| Stock Altered         | 10 years |
| Limited Modified      | 14 years |
| Unlimited Modified    | 14 years |
| 4 Cylinder Mini-Rod   | 14 years |
| 8 Cylinder Mini-Rod   | 16 years |

3. Drivers for Stock Class may have an adult walk behind tractor on track.
4. **Any driver who presents him/herself under the influence of drugs and/or alcohol will be restricted from driving that day.**
5. All drivers will wear suitable clothing (sleeved shirt, shoes, and jeans or fire suit); no nylon jacket or pants allowed. A helmet is required for all classes. Full fire suit is required if tractor runs on alcohol fuel. This includes non-members as well.
6. All drivers will conduct themselves and their tractor in a safe and respectable manner at pulls.
7. No driver will leave his/her tractor unattended while the engine is running at a pull.
8. All drivers or suitable persons will drive tractors on, and off the track if the tractor is running or being towed.

## PULLING PROCEDURE

1. The officers and/or promoters may prohibit anyone from pulling for a substantial reason, such as hot-rodding or abusive behavior.
2. **There shall be no alcoholic beverages or drugs consumed prior to, or during the pull by members and/or crew.**
3. Any driver not ready at his/her turn due to mechanical problems will have the option to pull in last position in the class in which he/she is registered if officials are notified. If the last tractor in a class experiences mechanical problems, he/she will be allowed five minutes to get hooked once the sled is ready if officials are notified.
4. In pull-offs, tractors will pull in the order in which they finished. In the event of a tie, the parties involved will decide how to break the tie by having a pull-off or by flipping a coin. If the tie is for first place, the parties involved must break the tie by having a pull-off.
5. Any driver not reporting for his/her pull will be eliminated and forfeit entry fee.
6. Tractors will be in neutral before hooking, and hands up will be the signal by the driver.

7. Weights may be repositioned on repulls or false starts.
8. Tractors are limited to one pull per class and two (2) classes per event.
9. The first puller in each class is the test puller, and has the option of a second pull; however, the decision must be made before unhooking. He/she must take third, or last position. Third position is defined as the 4th tractor to go down the track. (Example: 1st position puller will re pull after two other tractors pull). When the first puller rejects first hook, but is unable to come back for the second hook, he/she will be given the last position in the class. If a class is restarted, the 1st puller will restart the class.
10. If the puller is not satisfied with the first attempt and stops or attempts to stop within the first 75 feet without being flagged, he/she will be allowed a second attempt. This attempt must be made immediately without leaving the track.
11. Any tractor coming onto the track with a fuel leak or with an excessive water or oil leak will be prohibited from pulling until repaired.
12. Only authorized personnel will be permitted on the track while a tractor is pulling. Authorized personnel must be 14 or older.
13. All pulls within the boundary lines and beyond the furthest measurable point will be a full pull, except when a floating finish is used. If the track has a floating finish there is no out of bounds past 300 ft.
14. An attempt or a measurable pull is one inch or more.
15. Any contestant who feels another contestant's tractor is illegal may protest that tractor by consulting a member of the rules committee in a respectable manner. All protests will be handled before or immediately after the pull. A written protest has to be given to the exact item being protested. The protester must put up \$50.00 at the time of the complaint. The party in right gets the money. **If the puller in question refuses to be inspected that day, he/she will forfeit all points to date.**
16. If for any reason equipment is not up to the club standards, a driver will be allowed to pull but must repair the item within one week after notification. This does not include safety equipment.
17. **The sled operator may use sled brakes or remote tractor shut-off if he feels it is necessary for safety. The pull will end at this point. A re pull may be allowed depending on the sled operator and/or track official's decision.**
18. All tractors with the driver are required to weigh-in before hooking to the sled in all classes. After weighing, tractors will remain in the staging area.
19. **All decisions made by the track official and sled operator are final. Sled operators and track official/s have the right to deny anyone from hooking to the sled.**

## **TRACTOR CLASSES AND WEIGHTS**

### **STOCK SINGLE & V-TWIN TRACTORS (950 lb.-1050 lb.) Age 5**

Tractors must have a stock chassis and wheelbase, maximum 18 hp lawn and garden engine limited to 3800 RPMs (maximum). Engine must use only factory production stock parts as follows: block, head, cam, valves, rod(s), piston(s). NO ALTERATION OF THESE PARTS ALLOWED. Governed open exhaust (if safely routed up) and 0.60 overbore (maximum) are permitted. A maximum of 1" carb venture. The engine must have been available in the brand of tractor in which it is used. Maximum length (measured from center of rear axle to front most part including weights and brackets) is

seven feet. Maximum tire size is 12x12x26. **Tires must be turf or lug for stock single class. Stock V-Twin can run pulling tires.** No methanol fuel is allowed. Electric fuel pumps optional. Carburetor spacers or standoffs not allowed. Brand of tractor is determined by chassis.

#### **STOCK ALTERED TRACTORS (975 lb.-1075 lb.) Age 10**

Tractors can have up to a 56 inch wheelbase max. Front axle does not have to be stock, maximum 20 hp lawn and garden engine, and a mandatory steel flywheel. Engines are allowed to use an aftermarket stock appearing block. Billet cylinder head allowed. A carburetor of 1.200 venture max for all fuels, and one carburetor barrel per cylinder is allowed. Governor overrides, open exhaust (if safely routed up), and 0.60 overbore (maximum) are permitted. Cylinder head restraint device attached to the frame or lower engine to retain cylinder and head. The engine must have been available in the brand of tractor in which it is used. Maximum length (measured from center of rear axle to front most part including weights and brackets) is seven feet. Maximum tire size is 12x12x26. Tires may be turf, lug, or pulling tires. Electric fuel pumps are optional. Carburetor spacers or stand-off of 1 inch max are allowed. On all V-twin engines shielding is required 1/8 steel or 3/16 aluminum on external side of cylinders extending from head gasket to frame.

**LIMITED MODIFIED TRACTORS—limited to 600cc snowmobile or 800cc motorcycle maximum (1150 lb-1250 lb) AGE 14 WITH VALID DRIVER'S PERMIT** Non-automotive engines are limited to a maximum of 800 cc, gas and alcohol engines must be naturally aspirated, and up to one carburetor barrel per cylinder or one injector per cylinder. Diesel engines are allowed one turbocharger and must follow the other diesel specific rules. Chassis is limited to eight feet maximum length (measured from center of rear axle to front most part including weights and brackets) and five feet maximum width. Maximum tire size is 12x12x26. Multi-engines are allowed. Alcohol fuel is allowed. A roll bar/cage is optional, but recommended.

**UNLIMITED MODIFIED TRACTORS – limited to 1500cc snowmobile or motorcycle engine(s) (1225 lb - 1325 lb) AGE 14 WITH VALID DRIVER'S PERMIT** Non-automotive gas and alcohol engines must be naturally aspirated, limited to one carburetor barrel per cylinder or one injector per cylinder. Diesel engines are allowed one turbocharger, and must follow the other diesel specific rules Chassis is limited to eight feet maximum length (measured from center of rear axle to front most part of tractor including weights and brackets) and five feet maximum width. Alcohol fuel is allowed. Maximum tire size is 12x12x26. Multi-engines are allowed. A roll bar/cage is optional, but recommended.

#### **4 CYLINDER MINI-ROD TRACTORS (1500 lb -1600 lb) AGE 14 WITH VALID DRIVER'S PERMIT**

Engines limited to a maximum of four cylinders, fuel injection will be allowed or limited to one carburetor barrel per cylinder, and engines are limited to one turbo. Chassis is limited to eight feet maximum length (measured from center of rear axle to front most part of tractor including weights and brackets) and six feet maximum width. Alcohol fuel is allowed. Maximum tire size is 15x15.5x31. Multi-engines are allowed. A deflection shield will be installed on the rear of the engine behind the head to block area to protect the driver from coolant if head gasket failure occurs. All diesel engines will have a restraint cable 5/16" or larger over the head to prevent head from lifting off. A roll cage is mandatory. A neck collar is required.

#### **8 CYLINDER MINI-ROD TRACTORS (1825 LB - 1925 LB) AGE 16 WITH VALID DRIVER'S LICENSE**

Maximum of eight cylinders, naturally aspirated, fuel injection will be allowed or up to one carburetor barrel per cylinder. Eight feet maximum length measured from center of rear axle to front most point of tractor including weights and brackets. Six feet maximum footprint width. Alcohol fuel is allowed. Multi-engines are allowed. Tire size is 15x15.5x31 or 15x18x34. If tire size is 15x18x34, tractor and driver must weigh in at 1800 lb. – 1900 lb. A roll cage is mandatory. A front end skid plate/s are required. A neck collar is required.

#### **MULTI-DIVISION TRACTORS**

Any tractor adding engines will be considered a different tractor with a different number, and allowed in another division.

**WARNING: All weight classes listed are maximum weight. NO EXTRA ALLOWANCE.**

## **TRACTOR EQUIPMENT RULES**

- |                            |                             |
|----------------------------|-----------------------------|
| <b>A. Brakes, Steering</b> | <b>H. Safety</b>            |
| <b>B. Drawbars</b>         | <b>I. Seats and Fenders</b> |
| <b>C. Drivelines</b>       | <b>J. Stabilizer Bars</b>   |
| <b>D. Chassis</b>          | <b>K. Disqualifications</b> |
| <b>E. Engines</b>          | <b>L. Weights</b>           |
| <b>F. Exhaust</b>          | <b>M. Exhibition Pulls</b>  |
| <b>G. Kill Switches</b>    |                             |

### **BRAKES, STEERING**

All tractors will have working brakes and suitable steering.

### **DRAWBARS**

Minimum drawbar length is 6" from the center of the rear wheels to the point of hook and cannot be adjustable to less than 6". Drawbar must be stationary in all directions and 13" maximum from top of the hitching device to the ground. Hitching device must be parallel to ground and not more than 3/4" in thickness with a 2" diameter opening. Cross-section thickness must be equivalent to 1/2" round stock. Pulling point may not be more than 3/4" from the back edge of the hitching device. Only one drawbar and hole will be allowed. Hole has to accept a 2" round pipe or 2" round ball. There should also be 6" of clearance (3" on each side of the center of the hitch) from the hitch vertical, for visibility and ease of hooking. No weights allowed in the center.

### **DRIVELINES**

1. Driveline shielding.
  - a. All exposed gears, chains, and belts will be shielded with .060 or more steel or aluminum and all drive chains and belts will have 1/8" or more steel or aluminum 360 degrees. Chains running parallel with tractor will be shielded on top, front, and rear with 1/8" steel or aluminum.
  - b. Driveline brakes must be shielded 360 degrees with 5/16" minimum thickness steel and both ends must be closed with 1/8" steel minimum.
  - c. All remaining drivelines (drive shafts, u-joints, etc.) must be enclosed with 5/16" minimum steel 360 degrees fastened every 6" or closer with 3/8" or larger bolts being grade 5 or better or welded to the frame.
  - d. Transmissions in mini-rod tractors will be shielded on at least top, and sides around main body with not less than 1/8" steel, or at least 1/4" aluminum, or an approved safety blanket, or a combination of two or more of the above.
2. Clutches, flywheels, and bell housings.
  - a. Mini-rods must have a manufactured-approved bellhousing and use block plate with clutch set-up; those not using approved bellhousing will have a suitable shield surrounding the flywheel 360 degrees (1/4" thick mild steel or equivalent in tensile strength and not less than 4" wide securely mounted either to engine or frame) or an approved safety blanket.

- b. A metal cover (no plastic) will be used under the torque converter on all automatic transmissions.
- c. All bolts will be in place in bell housings.
- d. Billet steel flywheels are mandatory for clutch setup tractors except stock tractors.

## **CHASSIS**

- 1. All tractors will have wide front ends (wheels at least 24" apart or stock width on stock/stock altered chassis).
- 2. No four wheel drive tractors.
- 3. All tractors will be clean and painted.
- 4. All tractors will be equipped with a loop or hook in front of the tractor to hook a pull-back rope.

## **ENGINES**

- 1. No nitrous-oxide or pressurized fuel tanks allowed. Steel or steel braided lines with flange fittings are required on fuel injection systems, and any system with 15 psi or higher fuel pressure.
- 2. All tractors will have a factory throttle set-up or dead man throttle (being closed in rearmost position with double return springs on carburetor).
- 3. All engines equipped with a harmonic balancer will have a bolt in the crankshaft to hold the balancer on. Balancer will be solid steel, and if not, it will be shrouded with 1/4" steel no more than 1" away in direction of rotation 360 degrees to be fastened securely. If a pulley is not used ahead of balancer, a strap across the front of shroud is necessary.
- 4. All engine fans must be shrouded with 24 gauge or thicker aluminum 360 degrees. Electric fan excluded.
- 5. Mini-rod tractors will have either:
  - a. Two front motor mounts, two rear motor mounts, and a support saddle (sufficient strength cable may be used) for the rear of the transmission with 1/2" maximum clearance.
  - b. Two front motor mounts, a support saddle (cable may be used) at rear of engine with 1/2" clearance maximum, and a mount at rear of transmission. (This is to prevent the engine or transmission from dropping if breakage occurs).
- 6. A deflection shield is required on both sides of the engine. Shield must extend the full length of the block castings and be securely fastened; it must be made of aluminum or steel and a minimum of .060" thick.
  - a. Shields on V8 mini-rod engines shall be from the bottom of head (top of block) and extend to 2" below bottom center throw of crankshaft; solid frame will qualify for shield if .060" thick.
  - b. Shields on 4-cylinder mini-rod engines shall be from bottom of head (top of block) and extend to 2" below bottom center throw of the crankshaft.
  - c. A shield is recommended on all motorcycle engines between driver and engine for protection in case of an engine or transmission blow-up. Clutch basket will be shielded 360 degrees with 1/8 steel or 1/4 aluminum (the engine casting will suffice as part of the shield where applicable).
  - d. Engine shields are not required on stock tractors, but are recommended.

7. Silencers are highly recommended for all snowmobile engines.

## **DIESEL ENGINES**

- A. Engine must be compression ignition and use #2 diesel fuel only.
- B. Maximum of 4 cylinders or less
- C. May be liquid or air cooled
- D. No belt driven cooling fans. Electric fans only.
- E. Maximum of 2 valves per cylinder. Injectors must remain in stock location.
- F. No billet injector pumps. No electronic or common rail injection systems.
- G. Tractors are allowed a single (1) turbo charger with any manifold modifications necessary to mount the turbo charger.
- H. Manifold pressure may be a single stage only.
- I. Turbo charger must be a single shaft fixed vane type. No variable vane turbo chargers allowed. No inlet or outlet size restrictions.
- J. Turbo must be fitted with a shutdown guillotine on the compression inlet side of the turbo.
- K. No intercoolers or aftercoolers. All compressed air to enter the intake manifold.
- L. All turbocharged engines are required to have one cable that must surround the engine block and head. This cable shall be located between the first and second cylinder.
- M. Cable should go through the exhaust manifold port area. The cable will be a minimum of 5/16 thick with two (2) clamps at the splice. The cable should allow for approximately 4 inches of slack.
- N. Water injection will be allowed.
- O. All tractors must have a fuel shut-off, and an air shut-off mounted in the driver's compartment, and within reach of the driver.
- P. Killswitch device mounted on rear of the tractor must disconnect power to the electric fuel pump/injector pump along with activating turbocharger guillotine.

## **EXHAUST**

All exhaust must discharge upward. Height to be a minimum of 12" after the last bend in the pipe that discharges upward (measured from top of pipe to bottom of bend). All exhaust must be securely attached. Stock tractors will be allowed factory exhaust, upward discharge recommended. Engines equipped with a turbo will have a safety cross in exhaust made from 1/4" stock or equivalent or larger.

## **KILL SWITCHES**

1. All tractors will have a rear-mounted kill switch mounted above the drawbar hook point and at least 24" above the ground with a **minimum of a 2" solid steel ring hole**. The kill switch must be located out in the open, above the weights and weight brackets, and clearly visible.
2. The kill switch will short out or kill the power to the ignition system and the electric fuel pump, if applicable. All diesel engines will have air shut-off accessible to the driver and connected to the kill cable of the sled.
3. In the event that the kill switch kills the tractor accidentally for any reason other than sled malfunction, the pull will be measured at that point.

## **SAFETY**

1. All mower decks, loaders or other hang-on accessories will be removed.
2. Approved safety helmets must be worn in all classes with chin straps fastened. Full-face shield recommended. Fire suits required with alcohol fuel, and recommended in all classes.
3. Dry chemical fire extinguishers are required for all classes. It must be a minimum of a 2 ½ lb. fire extinguisher, fully charged, with gauge. In working condition, and accessibly located.
4. All tractors using automatic transmissions MUST be equipped with a two-hand reverse gear lock-out system.
5. A back-up light system is optional in all classes. A white light (automotive quality), and must be mounted on the rear center of the tractor. An indicator light on the dash must be operated off the same system. Lights must be operated by the shift lever when moved to reverse gear position. No other lights will be allowed on the rear of the tractor.
6. All tractors will be equipped with a starter system other than pushing or pulling. This will be used unless breakage occurs.
7. All mini-rod tractors will be equipped with a starter interrupter switch activated by a shift lever, which will allow starting only in a neutral or park shift position on automatic transmission-equipped tractors or when the clutch pedal is depressed on manual shift transmission equipped tractors (neutral safety switch or clutch disengagement switch).
8. Radiator overflow must discharge into a tank, which must be large enough to contain fluid and be sealed to prevent spraying out.
9. No wheel covers on rear wheels unless bolted.
10. All tractors will have a shut-off switch convenient to the driver other than the kill switch.
11. All tractors will have a fuel shut-off between the tank and fuel pump. This will be located in an easily accessible and visible location with a label and directional arrow.
12. Diesel powered tractors will have a deflection shield installed on rear of head to protect driver in case of head gasket failure.
13. Tractors with diesel engines are required to have a 5/16" or larger restraint cable overhead to prevent head from lifting off.
14. Billet steel flywheels are required on all clutch set-ups (except stock tractors).

15. All 4 cylinder, and V8 Mini Rods will be equipped with a full roll cage. These will have 2 main hoops (minimum) constructed from 1.75" x .095" chromoly or 1.875" x .083" seamless mild steel or 3 hoops constructed of equal strength. All brace tubes can be constructed of 1.50 a.083 chrome moly or 1.625x .065 seamless mild steel. There will be 2 vertical bars located behind the driver constructed of the same material. All horizontal and vertical tubes shall be placed in such a manner as to provide maximum cage strength. The back corners of the cage will need angle braces for side to side strength. All hoops and vertical back tubes shall be mounted to the tractor's rear axle, differential, main frame (if available) auxiliary frame extension of ¼" sheet metal may be used to mount cage to rear axle. All bolts will be 3/8 grade 8. With driver in normal position, there shall be a minimum of two inches between main hoops and driver's helmet, both vertically and laterally. The driver helmet must be behind front hoop.
16. All tractors with full roll cages will be equipped with a 5-point harness. A full roll cage is defined as having more than one hoop over driver.

### **SEAT AND FENDERS**

1. All tractors must have a substantial seat with a minimum of 4" back firmly attached, or a manufactured seat equal in strength. Drivers will remain in seat with no bouncing, and feet will remain on footrests any time the tractor is in motion at a pulling event.
2. All tractors must have fenders. Fenders are to consist of a barrier between driver and tire. Stock and stock altered tractors will have a hood, fenders, and all safety shields.

### **STABILIZER BARS**

All tractors will have two wheelie bars at least 10" apart measured from inside of wheels or pads and have at least 1" wide wheels or 3" or larger square pads not more than 5" off the ground and not less than 5" behind rear tires measured to the center of pads or wheels, and strong enough to support the weight of the tractor. Wheelie bars will in no way interfere with sled during hookup or pull. The drawbar and drawbar assembly will not in any way be attached to the stabilizer assembly. Bumper bars will be part of the wheelie bars. This is a vertical bar at least 6" long mounted on the rear most part of wheelie bars.

### **FRONT END SKID PLATES**

Skid plates must be one of the two types listed below:

1. A skid plate mounted to the center of the front axle/frame, and must be a minimum of 10 inches wide with rolled edges front and rear. Plates must be a minimum of 4 inches in length. Plates must be centered and securely mounted.
2. A skid plate mounted in line with each frame rail(on both sides) equal in strength to frame rail material. Skids must be securely mounted, and braced to the chassis. Skid plate surface to be minimum of 2 inches wide and 10 inches long with a minimum 2 inch curve when measured from the front most part of the rolled edge.
3. Highly recommended for all classes.

### **DISQUALIFICATIONS**

1. Any part from tractor lost while hooked to the sled will be cause for disqualification. If weights drag on the ground while pulling the pull will be disqualified (internal breakage excepted). This rule includes test puller.
2. If one or more tires of a tractor touches a boundary line it will be disqualified, and tractor will also lose second

attempt option, if it is before the 75-foot marker. Driver will be given last place points. Test puller will be given the option hook.

3. Any tractor starting without the green flag will be disqualified.
4. Any driver not keeping at least one hand on the steering wheel and remaining fully in the seat during his/her pull will be disqualified.
5. Any tractor jerking the sled during starting or shifting will be disqualified. Sled operator will make the decision.
6. Second verbal warning on the same rule will be cause for disqualification.
7. No one other than the driver will ride on any pulling tractor or tow vehicle when it is moving whether it is being driven or towed during our program. Tractor will be disqualified for complete event with no hook refunds.
8. Any arguments, tempers, or whining displayed at an event are means for disqualification.

#### **WEIGHTS**

1. All weights will be secure, and stationary.. (No containers of loose weight).
2. No part of any weight will extend more than 24" behind the center of rear axle.
3. All weight classes are maximum weight. **NO EXTRA WEIGHT ALLOWANCE.**

#### **EXHIBITION PULLING**

Any tractor not qualifying for a class because of weight or equipment not complying with rules (other than safety requirements) and being approved by officers and/or rules committee and sled operator will be allowed to pull exhibition. Safety requirement discrepancies will prevent any tractor from pulling. Any non-member making an exhibition pull will be charged \$5.00 for insurance, and \$5.00 hook fee per pull. Exhibition hooks will be allowed only when time permits.