



## 2022 RULEBOOK



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## **2022 OTTPA EXECUTIVE BOARD (7 MEMBERS)**

### **CHIEF EXECUTIVE OFFICER**

**Kurt Van Beek**

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712-470-1593(C)

[kurt@outlawpulling.com](mailto:kurt@outlawpulling.com)

### **(Executive Vice President)**

**Dave Nelson**

2851 200<sup>th</sup> St, Ft Dodge IA 50501

515-574-9519 (C)

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### **Senior Vice President**

**Taylor Van Beek**

712-470-1900

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### **Executive Director ( Competition, Rules, Safety)**

**Brandon Holcomb**

3036 600th Rd.New Hampton MO 64471

816-262-4508

[brandon@outlawpulling.com](mailto:brandon@outlawpulling.com)

### **OTTPA PROMOTER (Elected by the OTTPA Board – 3-year term – till 2021)**

**Kurt Kooima**

3316 Elmwood Ave, Rock Valley IA 51247

[kooimak@yahoo.com](mailto:kooimak@yahoo.com)

### **PRESIDENT OTTPA BOARD (Elected by the OTTPA board – 1-year term)**

**David Yarick**

9994 SW CR 7007, Rich Hill MO 64779

417-448-4182 (C)

[dirtslingndr@klmtel.net](mailto:dirtslingndr@klmtel.net)

### **OTTPA VICE PRESIDENT (Appointed by Chief Executive Officer)**

**Ron Stone**

**201 E 5<sup>th</sup> St Ct, PO Box 247, Linwood KS 66052**

785-766-2133 (C)

[ron@outlawpulling.com](mailto:ron@outlawpulling.com)

### **OTTPA Executive Director (Appointed by Chief Executive Officer)**

**Doug Ridder**

2289 Brown Shanty Road, Hermann MO 65041

573-280-1370 (C)

[dougr@outlawpulling.com](mailto:dougr@outlawpulling.com)

### **OTTPA TECH AND FIELD OPERATIONS DIRECTOR (Appointed by Chief Executive Officer)**

**Ryan Boysen**

409 12<sup>th</sup> Street, Onawa IA 51040

712-880-0178

[boysen4240@gmail.com](mailto:boysen4240@gmail.com)

Note: If an OTTPA promoter is no longer associated with an OTTPA event the OTTPA board will elect a new OTTPA promoter at the next annual OTTPA meeting.

OTTPA Board will oversee rules & safety for all classes. Purse & payout recommendations, etc. and forward all info to Executive Board through the OTTPA board President. Terms are 3 years.

NOTE: If a class board member changes class or is no longer an OTTPA member, the class will elect a new class board member at the next annual OTTPA meeting.

OTTPA "President (appointed by the OTTPA board from 1 of the 14 members on the board – 1-year term).

<b>David Yarick* Board President</b>	<b>LLP CLASS: Jeff Sievertsen (Term expires 2021)</b>
9994 SW CR 7007, Rich Hill MO 64779	3050 340th St., Manilla IA 51454
417-448-4182 (C)	712-269-2085(C)
<a href="mailto:dirtslingndr@klmtel.net">dirtslingndr@klmtel.net</a>	<a href="mailto:jrsieversten@gmail.com">jrsieversten@gmail.com</a>
<b>P4x4 CLASS: Matt Strange (Term expires 2022)</b>	<b>SF CLASS: Chad Weitzenkamp (Term expires 2023)</b>
807 West St, New Virginia IA 50210	206 County Rd 20, Hooper, NE 68031
515-249-6074 (C)	402-720-3776
<a href="mailto:Strange3@iowatelecom.net">Strange3@iowatelecom.net</a>	<a href="mailto:chadweitzenkamp@gmail.com">chadweitzenkamp@gmail.com</a>
<b>Independent - Mark Ulmer (Term expires 2021)</b>	<b>LPS CLASS: Dave Novak (Term expires 2022)</b>
453 E Heil St, Menno SD 57045	57546 826 Rd, Howells NE 68641
605-660-3610 (C)	402-615-1070(C)
<a href="mailto:mculmer@gwtc.net">mculmer@gwtc.net</a>	<a href="mailto:David-Theresa-Novak@hotmail.com">David-Theresa-Novak@hotmail.com</a>
<b>MOD CLASS: Craig Ulmer (Term expires 2021)</b>	<b>LSS CLASS: Randy Dunklau (Term expires 2022)</b>
1790 140 <sup>th</sup> St, Larchwood, IA 51241	4638 CO RD P 11, Arlington NE 68002
605-413-8719 (C)	402-618-0007(C)
<a href="mailto:Craig_ulmer@hotmail.com">Craig_ulmer@hotmail.com</a>	<a href="mailto:dunklaus@gmail.com">dunklaus@gmail.com</a>
<b>2WD CLASS: Robert Zajieck (Term expires 2021)</b>	<b>DSS CLASS: Tyler Boeckman (Term expires 2021)</b>
1001 Commerce Lane, Columbus TX 78934	1944 Ivory Ave Waverly IA 50677
979-732-7560 (C)	319-239-2941 (C)
<a href="mailto:Quality_fertilizer @att.net">Quality_fertilizer @att.net</a>	<a href="mailto:jdpulling.power@gmail.com">jdpulling.power@gmail.com</a>

<b>USS CLASS: Glen Frese Jr. (Term expires 2023)</b>	<b>4WD CLASS: Doug Ridder (Term expires 2023)</b>
2979 75 <sup>th</sup> St Atkins IA 52206	2289 Brown Shanty Rd Hermann MO 65041
319-551-0250(C)	573-280-1370
<a href="mailto:gkfres@southslope.net">gkfres@southslope.net</a>	<a href="mailto:Dridder@hermann.k12.mo.us">Dridder@hermann.k12.mo.us</a>
<b>PS CLASS: Dave Yarick (Term expires 2022)</b>	<b>3200 Super Field: Billie Ruwe (Term expires 2021)</b>
9994 SW CR 7007, Rich Hill MO 64779	17886 CO RD 14, Blair NE 68008
417-448-4182 (C)	402-533-3380 (C)
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<b>3500 PRO FIELD CLASS: Brent Roberts</b>	<b>3.0 DIESEL PICKUPS: Ryan Stahl</b>
	12378 Fortune Rd. Clearmont, MO 64431
660-254-9670	660-254-4092
	<a href="mailto:ryan@rsetiedowns.com">ryan@rsetiedowns.com</a>

**Support Staff**

**Director of Operations/Office Manager, Susan Dunklau**  
 4638 CO RD P 11, Arlington NE 68002  
 402-618-7545 (C)  
[susan@outlawpulling.com](mailto:susan@outlawpulling.com)

**Event Entry Clerk - meeting records, purse, payouts**  
**Event Promotions & PR Assistant, Lori Bauer**  
 PO Box 163 Paton, IA 50217  
 515-370-0331(C)  
[lorijeanbauer@yahoo.com](mailto:lorijeanbauer@yahoo.com)

**Director of Tech Services Tech, safety, event & operations manager (appointed by the OTTPA board 1-year term)**

**Ryan Boysen**  
 409 12<sup>th</sup> St, Onawa IA 51040  
[Boysen4240@gmail.com](mailto:Boysen4240@gmail.com)

**Director of Tech Services Responsibilities:**

- Hiring of Tech People, and Laser operators at all OTTPA events.
- Head Tech official will have final say on all safety and competition decisions at events.
- Head of all OTTPA Fuel & Water testing and final say on all results.
- If not at the event, he will appoint 1 tech person as head tech at every event. Head tech chooses where other tech people work at that event.
- Responsible for track preparation, start time, class pulling order, if 2 tracks offered, the class selection for each track, sled setting, pull-off, intermissions, etc.
- Coordinate all responsibilities of promoters with OTTPA such as:
  - An Ambulance or EMT Personnel, a Fire Truck and Fire Dept. Personnel, a box blade with tractor and operator, large tow- motor, backhoe, or loader to handle 2000 lb. weights, 2 people per track to hook & unhook vehicles to sled, a disc/field cult. & water truck to prepare track, a roller with operator (prefer rubber wheel roller), a person to weigh vehicles & measure drawbars, a line marker & lime, a sufficient amount of tow vehicles with drivers, etc.
  - Work Schedule for Entry Clerks, Tech people, and Laser Operator.
  - Responsible for track markers, leader flag, fire extinguishers, radios, lasers, tech & testing supplies, etc. and budget for said items.
  - Work schedule, workers budget and supplies budget submitted to OTTPA Executive Board by May 1st of each year.

Tech Personnel: The OTTPA Director of Tech Services will define the number of tech personnel that will attend each event. Rate of pay is \$250 for the first day and \$200 for each succeeding day. If there are multiple sessions in a day, the rate is \$200 per session.

Entry Clerk: Each event will have 1 entry clerk per track at a cost of \$250 for the first day and \$200 for each succeeding day. If there are multiple sessions in a day, the rate is \$200 per session.

Measuring Device: Each event will have 1 GPS measuring device per track at a cost of \$200 per day or session.

**Director of Competition Responsibilities:**

- The competition director will be responsible for finding factual information on vehicles he or she inspects at events.
- He or she will attend 15 events per season.
- The specific classes and what are being teched will be assigned by Chief Executive Officer, or Chief Operating Officer or President of the Board at random.
- Should the inspections reveal illegal items on a vehicle, the facts of the inspection will be given to the 5-panel board to decide penalties for such infractions.
- This person will handle protests by gathering information, collecting the protest funds and reporting findings to the 5-panel board to decide penalties.

**OTTPA Tech Staff**

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**WARRANTY DISCLAIMER** The rules promulgated in the 2022 Pulling Rules for the sport of tractor and truck pulling, and the rules relating to the safety of equipment are the responsibility of each driver who participates in the sport of truck and tractor pulling under these rules. No expressed or implied warranty of safety is intended nor may be inferred from the publication of either these rules, nor the compliance therewith. Nothing herein should be construed as a guarantee against injury or death to participants, bystanders or spectators. Specification and rules set forth in the 2022 OTTPA Pulling Rules were voted for by competing members at our annual banquet and/or approved by the 2022 OTTPA Board of Directors.

All participants in an OTTPA sanctioned event must assume all liability for any damage or loss caused by or from their equipment and the use thereof. The OTTPA specifically states that if it has not tested any equipment or use of equipment that it refers to in the 2022 Pulling Rules and makes no warranties either specified or implied with regard to or any use thereof. The user must look to the manufacturer with regard to said warranties.

## **2022 OTTPA MEMBERSHIP**

The OTTPA license is similar to a driver's license. It will have the OTTPA logo, your name, address, social security number, class and insurance information. All competing memberships will be valid from January 1, 2022 to December 31, 2022.

### Competing Membership – (Can join the day of pull)

- Postmarked by 12/15/21 \$410.00
- Postmarked by 02/01/22 \$485.00
- Postmarked after 02/01/22 \$560.00
- 1st membership per tractor, with vehicle registration, is full price
- 2nd membership per tractor, with vehicle registration, is 1/2 price

- 3rd membership per tractor, with vehicle registration, is 1/2 price

**Competing Membership Includes:**

- 2022 OTTPA Souvenir Program
- 2022 Newsletters
- 2022 OTTPA Official Rule Book
- 2022 Competition License Card
- 2022 USPA Insurance Card
- 2022 OTTPA Address & Phone Directory
- Two OTTPA Decals
- Event Information
- Four all access pit passes

**Vehicle Registration**

- Per Vehicle \$165.00

**Insurance (mandatory)**

- Postmarked by 12/15/21 \$150.00
- Postmarked by 02/01/22 \$170.00
- Postmarked after 02/01/22 \$190.00

**INSURANCE:** The following is a brief summary of insurance coverage for those who hold an OTTPA competition license. Insurance coverage at event site includes \$10 million liability, \$20,000 accidental death and \$240,000 excess medical. Spouse and dependent children also have accidental death and medical coverage for accidents while on site at OTTPA sanctioned events.

For information on insurance coverage, loss reports, etc., refer all calls/correspondence to: USPA 1-217- 923-3949

**OTTPA CHAMPIONSHIP PULLING**

The sport of pulling can trace its roots back to the early days of draft horse pulling at the county fairs in the early part of the 20th century.

One of the first recorded “motorized” pulling event took place in 1929 at Bowling Green, Missouri. As the sport of pulling started taking shape, it grew throughout the 1950’s and 1960’s. What it lacked through the years was a uniform set of rules from county to county and from state to state. Competitors never knew what the rules were going to be from event to event. By the 1970’s different associations across the country were formed to establish uniform rules and give the structure it needed. One of the associations formed was the Outlaw Truck & Tractor Pulling Association.

Since its founding in the 1982 OTTPA has placed high priority on keeping pulling a safe and competitive sport for the competitors and the fans. The OTTPA rulebook has evolved to meet that goal. Today OTTPA has one of the safest records in all of motorsports.

What began back in OTTPA’s infancy has grown into a major motorsport, with some 310 members, who compete in 14 different classes on eight different levels of pulling throughout the Midwest from South Dakota to Texas. The OTTPA has come a long way since its humble beginnings to become one of the most recognized sanctioning bodies in the motorsport of truck and tractor pulling, stressing safety and fair competition.

**PULLING DIVISIONS & CLASSES**

Four divisions with sixteen different classes of competition comprise the OTTPA. They are listed as follows:

<b>Trucks</b>	<b>Tractors</b>
---------------	-----------------

Pro Stock Truck (P4x4)		Light Limited Pro Stock Tractors (LLP)
Diesel 4x4 Trucks (DT26)		Super Farm Tractor (SF)
Diesel 4x4 Trucks (DT30)		Limited Pro Stock Tractor (LPS)
Modified 4WD Truck (4WD)		Pro Stock Tractor (PS)
Modified 2WD Truck (2WD)		Light Super Stock Tractor (LSS)
<b>Modified Tractors</b>		Diesel Super Stock Tractor (DSS)
Modified Tractor (MOD)		Unlimited Super Stock Tractor (USS)
Light Limited Modified Tractor (LLM)		540 Limit Pro Stock Tractor (540)
<b>Mini Mod</b>		Super Field 3200 Tractor Class (32SF)
Blown Mini Mod (MINI)		Pro Field 3500 Tractor Class (35PF)

No class jumping if your class is scheduled at an event which is a given location (i.e. – Ravenna, Wisner, Rock Valley), not the specific session. Vehicle can only jump up to the next class level, if your class is not offered. If jumping up a class, you must be OTTPA legal for that class (i.e.- any class with mandatory turbo, fuel, water, etc. must run that turbo, fuel, etc. to jump up a class.)

Within each division are weight classes illustrated in the table below:

#### OFFICIAL OTTPA CLASS WEIGHTS

##### Trucks

	Pounds
P4x4 - Pro Stock 4x4	6,200
D4x4 - Diesel 4x4 3.0	8,000
D4x4 – Diesel 4x4 2.6	8,000
MOD - Modified 4WD	6,200
2WD - Modified 2WD	6,200

##### Modified Tractors

LLM – Light Limited Modified Tractor	
Turbines	6,200
Other engine types up to	7,200
MOD - Modified Tractor	7,400

##### SF & Pro Stock Tractors

LLP - Light Limited Pro Stock Tractor	8,500
SF - Super Farm Tractor	9,200
LPS - Limited Pro Stock Tractor	9,500
PS - Pro Stock Tractor	10,000
540 – Limited Pro Stock Tractor	8,500

##### Super Stock Tractors

LSS - Light Super Stock Tractor – 6000 alcohol/6300 diesels	
DSS - Diesel Super Stock Tractor (components)	8,200
DSS – Diesel Super Stock Tractor (cast chassis)	8,500
USS - Unlimited Super Stock Tractor	6,200

##### Super Field Tractors

32SF - 3200 Super Field	8,200
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35PF - 3500 Pro Field	9,000
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<b>Mini</b>	
MINI-Mini Mod	2,050

#### **POINTS & END OF SEASON AWARDS**

**Year End Payout:** For your class to qualify for Year End Payout, the class must have a minimum of 5 hooks and 3 or more drivers competing for the championship. The payout is a pre-determined purse as outlined in the chart below.

These dollars will be paid out at the banquet as follows:

D30 - \$4300 - \$1300, \$1000, \$850, \$650, \$500;  
 D26 – \$1250 – \$400, \$300, \$250, \$200, \$100;  
 540 – \$2500 – \$900, \$750, \$400, \$300, \$150;  
 3200SF -- \$2800 - \$900, \$700, \$500, \$400, \$300;  
 P4x4, LLP – \$7000 – \$2400, \$1900, \$1400, \$900, \$400;  
 SF, DSS LSS - \$8000 - \$2800, \$2300, \$1700, \$800, \$400;  
 USS, LPS - \$9000 - \$3000, \$2500, \$2000, \$1000, \$500;  
 4WD – \$10000 – \$3900, \$2900, \$1900, \$900, \$400;  
 PS, 2WD, MOD – \$13500 – \$4600, \$3600, \$2700, \$1600, \$1000;  
 MINI - \$3000 - \$900, \$800, \$650, \$400, \$250.  
 LLM - \$3300 - \$1000, \$800, \$600,\$500, \$400  
 3500PF-\$2800-\$900-\$700-\$500-\$400-\$300

#### **Points Race**

- 1) Points- 1st place receives 28 points, then 26 for 2nd and 1 point less per position down to 17th place or 10 points, after 10th place everyone who is at the events will get 10 points. If 1st place is a non-points runner, then 1st place is 27 points.
- 2) All members will collect points from the date they buy their membership.
- 3) Pre entry discount deadline is May 1. Pre entry not required to collect points.
- 4) All members will receive 0 points for any hook they miss. In the case of breakage, you will have 3 days to fix vehicle from the date of the event(s) pullers vehicle broke at if next event is less than 3 days to next event or family emergency or natural disaster pre-entries puller will get last place points for that event. Breakage is only eligible if it occurred at an OTTPA event.
- 5) No reset of points any time in the season.
- 6) Top 5 eligible for end of year points payout
- 7) Any competitor that meets the qualifications through Wisner can move up into the top 5 during the chase and be eligible.
- 8) Must attend all the pulls after Wisner to collect end of year points money. (Only exceptions would be family emergency or natural disaster.)
- 9) Classes with 0 - 9 – no drops; Classes with 10-18 – 1 drop; 19-25 - 2 drops and 26 + - 3 drops.
- 10) Once a competitor is disqualified from end of year payout, points will still be calculated as normal and can still place in top 5, but no payout.
- 11) All members will accumulate points at all events, even after Wisner.

#### **Instructions to run for points and be eligible for end of year payout.**

- 1) Buy OTTPA membership
- 2) Only miss 2 hooks through Wisner (for classes with 10 hooks or more)
- 3) Make every hook after Wisner (1 miss eligible for breakage in 3-day window)
- 4) Finish in top 5 at the end of year.

Payout	2021 OTTPA PURSE PAYOUT	

Class	Min. Purse	Payout Places	Payout Breakdown
DT26	\$2500	10	\$600, \$475, \$350, \$250, \$200, \$175, \$150, \$125, \$100, \$75
3200SF	\$2000	10	\$400, \$300, \$250, \$200, \$200, \$150, \$150, \$150
NA2WD	\$2000	9	\$500, \$350, \$300, \$200, \$175, \$150, \$125, \$100, \$100
540	\$4000	10	\$800, \$600, \$500, \$450, \$400, \$350, \$300, \$250, \$200, \$150
3500PF	\$3000	10	\$600, \$500, \$400, \$350, \$300, \$250, \$200, \$150, \$150, \$100
MINI – 2 sessions	\$2600	8	\$600, \$500, \$400, \$350, \$250, \$200, \$150, 150
P4x4	\$3500	10	\$850, \$625, \$500, \$375, \$275, \$225, \$200, \$175, \$150, \$125
DT30	\$3500	8	\$800, \$650, \$525, \$425, \$350, \$300, \$250, \$200
LLM	\$3500	10	\$750, \$600, \$475, \$400, \$325, \$300, \$250, \$200, 100, 100
LLP	\$4000	12	\$800, \$675, \$550, \$425, \$325, \$250, \$225, \$200, \$175, \$150, \$125, \$100
SF	\$4000	12	\$800, \$675, \$550, \$425, \$325, \$250, \$225, \$200, \$175, \$150, \$125, \$100
LSS	\$4250	10	\$900, \$800, \$700, \$600, \$425, \$225, \$200, \$175, \$150, \$125
DSS	\$4750	9	\$1100, \$900, \$750, \$600, \$475, \$350, \$250, \$200, \$125
USS	\$4750	8	\$1100, \$900, \$750, \$600, \$500, \$400, \$300, \$200
LPS	\$4500	10	\$950, \$850, \$750, \$550, \$425, \$300, \$225, \$175, \$150, \$125
4WD	\$5000	12	\$1000, \$850, \$700, \$575, \$475, \$375, \$275, \$200, \$175, \$150, \$125, \$100
2WD	\$5000	12	\$1000, \$850, \$700, \$575, \$475, \$375, \$275, \$200, \$175, \$150, \$125, \$100
PS	\$5000	10	\$1100, \$850, \$725, \$600, \$500, \$400, \$300, \$200, \$175, \$150
MOD	\$6000	8	\$1200, \$1000, \$850, \$750, \$700, \$600, \$500, \$400
State	\$3000	8	\$750, \$650, \$550, \$400, \$300, \$200, \$100, \$50

#### Key for official OTTPA classes

Limited Pro Stock Tractor	LPS	Pro Stock Truck	P4x4
Light Super Stock tractor	LSS	Super Farm Tractor	SF
Pro Stock Tractor	PS	Unlimited Super Stock Tractor	USS
Diesel Super Stock Tractor	DSS	Modified 2WD Truck	2WD
Modified 4WD Truck	4WD	Diesel 4x4 Trucks	DT30
Modified Tractor	MOD	Light Limited Pro Stock Tractors	LLP
Diesel 4x4 Trucks	DT26	Super Field 3200 Tractors	32SF
540 Limited Pro Stock Tractors	540	Mini Mods	MINI
		Pro Field 3500 Tractors	35PF

**HOOK FEES (State Hook \$45.00)**

1)

<b>Class</b>	<b>Total</b>	<b>Class</b>	<b>Total</b>	<b>Class</b>	<b>Total</b>	<b>Class</b>	<b>Total</b>
DT26	\$40.00	P4x4	\$45.00	LSS	\$55.00	4WD	\$65.00
32SF	\$35.00	DT30	\$50.00	DSS	\$60.00	2WD	\$65.00
32PF	\$35.00	LLP	\$55.00	USS	\$60.00	PS	\$65.00
540	\$55.00	SF	\$55.00	LPS	\$60.00	MOD	\$75.00
NA 2WD	\$30.00	LLM	\$45.00				

2) 1-time hook fee is \$150 and puller will receive only 2 pit passes.

3) If you are not registered two (2) hours before the starting time of the pull, you will receive one warning and pay a \$50.00 extra hook fee for the day, in addition to the regular hook fee. If you are late after the first warning, you will have \$100.00 deducted from your payout for that day. If you are in the pre-entry program, you need to contact the Clerk two (2) hours before the starting time if you are unable to attend. You need to go to registration and sign in upon arrival at the track.

4) Members paid off chart above.

**PRE-ENTRY PROGRAM**

1) A vehicle registered in the pre-entry program for the 2022 pulling season will receive a \$5 per hook discount if registered before May 1st. Members can still pre-enter after May 1<sup>st</sup> at any time but will not receive the discount.

2) If in pre-entry program you do not have to be on-site 2 hours before event, however puller must call 2 hours ahead of time if not hooking or will forfeit pre-entry for that hook and pay \$100 fee.

3) Refunds

- a) All entry fees will be refunded for all rainouts or cancelled events; unless you finish in Top 5 in points.
- b) If a member receives end of year payout, no entries that season will be refunded.
- c) If a member for any reason can't continue the season, the entries going forward will be refunded.
- d) At no time during season will points be removed from a vehicle that cannot continue the season
- e) Refunds will be paid out at the banquet.
- f) In order to qualify for the misses, you have to be in the prepaid program.

**SLEDS**

1) All sleds must be of a mechanical device with rider on sled when it is in operation.

2) All sleds also must have workable brakes with a red light that comes on when brake is applied.

3) All sleds must be of a rigid design and stay on the ground to prevent excessive bouncing.

4) All weight transfer mechanisms and sleds, as a unit, must have passed a safety inspection by the North American Sled Owners Association and/or by OTTPA.

5) The sled hitch shall be a centered single design with a pivot design not to exceed 30 degrees or less than 10 degrees.

6) The length of the hitch on an official sled shall be 36 inches for minis, 46 inches for truck and tractors (plus or minus 1/2 inch) measured from the point of hitch rearward to the point the chain attaches to the sled.

7) The sled point of hitch shall not be more than four (4) inches above ground level.

Note: Hook for the primary hitch to be painted orange and the hook for the secondary hitch to be painted white for indoor pulls only.

**HITCH HOLE DIAMETER: 3 INCHES WIDE x 3.75 INCHES LONG**

**DRAWBARS**

Class	Max. Height	Center of Rear Axle
Pro-Stock 4x4 trucks	26 inches	36% of Wheelbase
Modified 4x4 trucks	26 inches	30% of Wheelbase
2WD Trucks	30 inches	18 inches' minimum
All Tractors and Pro Stock Semi's	20 inches	18 inches' minimum

**GENERAL RULES**

- 1) Contestants must be 18 years old or at least 16 years old with a parent or guardian consent.
- 2) Contestants must be a member of OTTPA or pay 1-time hook fee.
- 3) Any competitor or any of his crew incapacitated due to intoxicating agent, and/or drugs, his or her pulling vehicle will not compete for the duration of the pull. Obvious or excessive consumption of alcoholic beverages before or during pull will not be tolerated. Contestant shall not consume alcoholic beverages 6 hours prior to the start of that event.
- 4) Anything detrimental to the OTTPA association or board members will be grounds for disqualification.
- 5) Any pulling vehicles left running with operator not in seat will be disqualified.
- 6) Pulling vehicles must be operated in a safe manner at all times within the confines of the track, pits and staging areas. Officials have the right to stop and disqualify any vehicle not being operated in a safe manner.
- 7) All vehicles must pass a safety inspection.
- 8) Driver must remain seated during pull.
- 9) Driver must have complete control of the vehicle at all times.
- 10) Use of profanity or threats by any puller or member of his pit crew toward any official, promoter or sponsor of a pull shall be cause for suspension of said puller and vehicle for a period of one (1) year and ten (10) days from date of occurrence. In addition, loss of points and any end of season money and/or award.
- 11) Rule's meeting held in November each year, all new rules will be enforced January 1<sup>st</sup>.
  - a) All proposed rule changes from classes are due to the board no later than October 1. Details and discussion items to be presented by Class representative to the full board. Class Rep will circulate through the class members and take a class vote. Information and class vote info due to the board no later than November 1<sup>st</sup>.
- 12) When recertifying the clutch, the serial number has to be legible for tech officials.
- 13) All competing vehicles required to run VP diesel, gas, methanol fuel. VP DX Torque is legal to use.
- 14) When registering the vehicle for the year, you are registering the chassis. That is your chassis for the year points stay with the registered vehicle as long as the owner is the same. (Any major repairs or chassis changes need to be approved by the board.)
- 15) Miss conduct will not be tolerated. Any reported issues of miss conduct at an event the board will determine the penalty.
- 16) Traction Control is defined as any on board computer device that senses an input of increased rpm or lost traction in drive train occurring during the run and sends an automatic output to counter this input. This electronic exchange occurred without operator input. Operator and manually controlled devices to control traction are allowed.
- 17) Sponsor Decals on pulling vehicles - All members must have present on their pulling vehicle (both sides) the 1st time the vehicle goes down the track or no purse or points. Enforced for 2021 season.**

## **Registration**

- 1) If you are not registered two (2) hours before the starting time of the pull, you will receive one warning and pay a \$50.00 extra hook fee for the day, in addition to the regular hook fee. If you are late after the first warning, you will pay \$100.00 extra hook fee for the day, in addition to the regular hook fee. If you are in the pre-entry program, you need to contact the Clerk two (2) hours before the starting time if you are unable to attend. You need to go to registration and sign in upon arrival at the track. Notification of which person is driving the vehicle should be relayed to the Clerk.
- 2) If you are not registered before your class starts you cannot pull that day.
- 3) All pullers will have a drawn number to determine what position they will pull in, unless pre-entered and have numbers drawn for you ahead of entry time.
- 4) If you have pre-entered a pull and you are not there a number will be drawn for you and you will be obligated to use the number drawn.
- 5) Contestants must pull at position drawn within three (3) minutes of time track sled is in readiness; any delay will mean disqualification. An official may drop a contestant having mechanical problems to a later position.
- 6) All contestants must weigh at the scale provided by the sponsoring organization and must abide by weights shown on those scales. All fuel and liquid tanks must be full and safety equipment (i.e. fire suit & helmet) must be on board before crossing the scales. No air may be added to tires or air suspensions after crossing the scale. Reweighting of vehicle will be at the discretion of the official.
- 7) Not more than 200 pounds moved from the rear to the front without rechecking draw bar.
- 8) All events/promotors have to have class schedule set by May 1, after May 1 classes may be added to an event, but cannot be a points hook. Also rain dates have to be on the schedule before May 1, or the new date will not be a points hook.
- 9) STRONGLY recommend that everyone has an exhaust pipe that extends above the motorhome or toterhome so that fumes go above the vehicle.
- 10) Everyone will get 5 show up points on top of whatever position you finish if you are at the event. If event is rained out and you are on site you will get 5 show up points. If you are not yet at event and it gets rained out, you have to be close enough to the event to have been there 2 hours ahead of start time and you have to call either Lori or Kurt to get your show up points.

## **Track Set-up**

- 1) All officially sanctioned contests must have available a pulling dirt track with 100 ft. shutdown not to exceed 300 feet, and not be less than 35 feet wide.
- 2) Spectators must be kept 20 feet from the track with a barrier.
- 3) Track chalk line will be set at a minimum of 320 feet up to maximum of area allowed.

## **On-Track**

- 1) If a senior track official feels that a vehicle is unsafe, he has the right not to allow the vehicle to hook.
- 2) All vehicles are required to drive into position on the track under their own power and leave the track under their own power at the discretion of officials.
- 3) No riders on pulling vehicles.
- 4) All vehicles must be in neutral or park (transmission selector) while being hitched and unhitched to the sled.
- 5) No portion of the vehicle or weights shall interfere with the sled, chain, or hook during pull or while being hooked or unhooked from the sled.
- 6) All pulls must start with a tight hitch. No jerking allowed. All vehicles will have a workable reverse but can be manually rolled to or from the sled in case of mechanical failure only.
- 7) Vehicle must be stopped immediately upon signal from flagman or stopped by sled. The pull shall be considered over where the forward motion stops, with no re-pull allowed if stopped by sled.
- 8) All pull distances will be measured by GPS measuring device or laser.
- 9) Contestants will be allowed a second pull if the first pull does not exceed 100 feet on courses 226-300 feet. (If the driver attempts to stop within these distances but goes past to avoid being bumped by the sled, he will be allowed a re-pull. Driver must raise his hand up when backing out of the throttle.)

10) Contestants may have sled spotted on starting line wherever he or she desires if he or she notifies the officials in sufficient time to have the sled spotted in said location as the sled is returning to the starting line from the previous pull. If preceding contestant moves the sled any measurable amount, the next contestant may have the sled relocated prior to his first attempt.

11) The contestant who draws the lowest number will be the test puller with the following options:

- a) Take the hook
- b) Drop the hook and pull immediately
- c) Drop six (6) places and re-hook, no dropping to last.
- d) While unhooking from the sled, contestant must confirm to the official that he is accepting or declining that pull. If the puller does not confirm, the hook will be considered automatically official.

12) If weight machine (sled) needs further adjustment (reset) the following will happen:

- a) If tech or sled operator makes a change to the sled after the first hook, the first puller may re-hook immediately, drop six (6) places or go to last (if more than one contestant has made a hook before adjustment (reset sled) they will follow test puller in the same numerical order as before the sled was reset.
- b) The next contestant that hooks to the sled after reset will start the class and be measured.

NO MORE TEST HOOKS.

13) In a pull-off there can be a floating finish, the contestants must pull as far as they can and each will be measured.

14) The sled should be re-weighted before the fourth vehicle pulls—or at the discretion of the sled operator and track officials. The sled cannot be lightened if the test puller finishes within 20 feet of a full pull.

15) If the sled would break down during a class and cannot be repaired within reasonable time, the class will be pulled over starting with the number one puller.

16) Once the class has been started, it cannot be stopped except in the case of mechanical difficulties with the sled.

17) If the vehicle goes out of bounds, which is marked by the chalk mark (regardless of distance) the vehicle will be disqualified unless vehicle has first hook option.

18) Any weights or safety equipment lost while hooked to the sled will be cause for disqualification.

19) No liquid weight allowed.

20) Excessive loss of liquid by a vehicle while in forward motion during a contest will be cause for disqualification, unless due to internal breakage. All discharge tubes must vent outside the frame rails in track of rear tires or into a container.

21) No one is allowed on the track except for track officials and contestants when the vehicle is under the green flag; track is defined as the area within 35 feet in any direction of contest course boundaries, including staging area at the start end and the run-off area at the finish end of the track.

22) At all times during competition (from the time session starts until it is over), there will be limited access to the track area at the discretion of the track officials.

23) No alcohol allowed on track during the pull.

24) When the same driver is driving two or more different vehicles in the same class and they draw back-to-back numbers, the second vehicle will automatically be moved back one position.

#### **Support Vehicles Allowed**

1) Support vehicles (such as ATV's, golf carts, Mules, Gators, Jeeps, etc.) are to be used as support vehicles only (for towing or carrying fuel, batteries, etc.). Misuse of support vehicles before, during and after the event will not be tolerated,

2) All support vehicles must be parked 1 hour after the conclusion of each evening session at all events. One hour after the show ends, the OTTPA insurance coverage ends. Failure to comply with this rule is considered detrimental to the Outlaw association as outlined in bullet point 4 under the general rules listed above and will result in a 1 year and 10-day ban from pulling with OTTPA.

3) Proof of insurance must be supplied to the entry clerk and a colored decal placed on the support vehicle. Entry Clerk to supply the decal.

#### **Fuel & Water**

1) Anyone found to be using nitro or nitrous oxide will be barred permanently.

2) Usable fuels -VP Racing Fuel and Water only for all classes—absolutely no additives for diesel classes. (Exempted classes LSS & DSS). Alcohol vehicles can run VP Top Lube.

3) Any infraction shall be cause for suspension of said puller and vehicle for the period of one (1) year and ten (10) days from date of occurrence. Moreover, loss of points and any end of season money and/or award.

4 VP Fuel and Water is the only fuel allowed with all vehicles in all classes. A \$50 fine will be accessed for lack of fuel and water test ports for all classes. Also, for any minor infractions of fuel or water quality. All vehicles must display 2 VP Racing Fuels decals. One on each side of every vehicle.

5) No computers allowed that automatically control any mechanical operation of the competing engine, clutch or vehicle except for water injection. No electronic fuel injectors or metering devices will be allowed. Except Diesel 4x4 that have factory computer.

## Safety

1) A minimum of a two (2) pound ABC with gauge dry chemical fire extinguisher secured to the vehicle and convenient to the driver is mandatory.

2) All contestants must wear a dot-approved full faced helmet rated at least or must be SFI spec 41.2. No moto-cross helmets allowed. All helmets must be 2000 and newer. No modification or alteration of the helmet is allowed. All chin straps must be fastened. Helmets with flame retardant linings and a flame-retardant neck skirt are allowed. If you use a helmet with both flame retardant lining and neck skirt, no head sock is required.

3) All contestants must wear fire suits that meet the following requirements:

a) Must be a minimum of SFI 3.2A1 driving suit. Drivers who compete in flip top body styles that do not have complete fire walls must wear a SFI 3.2A5 protective clothing.

b) All drivers are required to wear full fire protection including full face helmets with shield, fire gloves, fire shoes and certified SFI fire suits according to body type specifications. Head sock if helmet does not have flame resistant lining and neck skirt.

c) Contestants must wear 1 or 2-piece fire retardant suit. All drivers in all divisions that require helmets will be required to wear a full 360-degree neck collar meeting SFI spec 3.1 or a Han's device.

d) Helmets need to be hooked, not to be taken off without unhooking them, if seen a DQ will take place.

4) All injection or butterfly shafts of blown engines must have dual return-to-idle arms and springs.

5) All pulling vehicles must have an automatic ignition kill switch/or air shut off. All ignition engines must have a kill switch in working order within easy reach of the driver. Tech officials must be able to easily pull the kill switch from the rear of the vehicle. NO trailer type kill switches.

6) All fuel injected ignition engines must have a fuel shut off valve control within easy reach of the driver. The breakaway switches will have attached to them a minimum of a two (2) inch diameter ring that is 1/8-inch-thick solid to be located approximately 2 to 4 feet above drawbar. No plastic trailer brake switches allowed.

7) All automotive engines equipped with a non S.F.I. approved harmonic balancer shall be shrouded with  $\frac{1}{4}$  x 1-inch steel no more than one (1) inch away in direction of rotation, 360 degrees, to be securely fastened with a minimum of two (2) ears that are  $\frac{1}{4}$  inch thick and 1-inch-wide, each extending one (1) inch in front of the hub. A bolt in the crankshaft to hold dampener puller is required. All balancers or steel hubs required to have a retainer to restrict forward movement more than  $\frac{1}{2}$  inch to keep balancer from coming off the crank.

8) A deflection shield is required on both sides of all engines. Shield must extend the complete length of block casting and be securely fastened. Shield to be made of aluminum or steel a minimum of .060 thickness or safety blanket material. Shielding on all engines must extend from base of head or the uppermost point of piston travel to two (2) inches below bottom center of crankshaft throw and be securely fastened.

9) Tractor inner side shields. All inline engines are required to have an additional side shield consisting of .125 (1/8) steel or titanium or .250 (1/4) inch thick aluminum inside of the current .060-inch steel or aluminum side shields with a minimum of  $\frac{1}{2}$  inch air gap. The shield is independent of the current side shield and must be attached to the chassis (frame) with a minimum of 5/16 fastener at both ends and the center on the bottom or suspended a minimum of 3 inches below the top of the frame rail and to the engine block at both ends bolted solid to the bolt if suspended or with a length of 5/16 chain if fastened at bottom at deck height on the top. This shield must extend from the bottom of the head to the centerline of the crankshaft and extend the full length of the block on each side of the engine.

10) Any vehicle running planetary rear-end must enclose entire driveline in a minimum of 1/4-inch steel or aluminum mounted to the frame with adequate bracing.

11) All competing vehicles must be equipped with working rear wheel brakes, except four-wheel drive trucks, which must have working front wheel brakes. All driveline brakes must have 3/8-inch steel, 360 degrees around brake components, and both ends must be closed with 1/8-inch steel or greater.

12) Vehicle must have tow hitch on front of vehicle. It can extend no more than six (6) inches ahead of the farthermost front portion of the vehicle. It will not be counted when measuring length of vehicle. It must have a three (3) inch diameter hole,

positioned horizontally. It must be strong enough to push, carrying or pulling the vehicle at its heaviest weight. It is to be used only for pushing, carrying or pulling the vehicle.

13) All vehicles to have a primary independent mounted hitch of significant strength to retain the vehicle. The hitch itself is to be painted orange. Directly below the primary hitch with an eight (8) inch minimum separation will be the secondary hitch, painted white. (Mandatory at indoor events)

14) Drawbar must be equipped with a steel hitching device not more than 1 1/2 inch by 1 1/2-inch square (1 ½ inch round stock); nor less than one (1) inch by one (1) inch square (1 1/8-inch round stock) and with an oblong hole maximum of 3 inches wide by 3 3/4 inches long.

15) Primary hitch must be secured to vehicle frame and rigid in all directions. No cables or chains allowed in hitch mounting. Any movement of hitch up or down will not be allowed.

16) Pulling point must be within 1 1/2 inches from back edge of hitch and no less than one (1) inches.

17) All throttles must be self-returning to the idle position when released. Foot throttles are required to have a toe strap.

18) All supercharger drive components must conform to SFI specifications. All superchargers shall have a workable pop-off valve or aluminum studs, and adequate restraints that are SFI certified with legible dates to prevent blower lift off. All centrifugal blowers must have an adequate shield of ½ aluminum or 3/16 steel. All supercharger burst panels must be deflected upward or downward.

19) The use of torque converters, automatic shifts, etc. Will be allowed during pull. All vehicles with automatics must have reverse lockout. All vehicles shall be equipped with a neutral start switch, meaning the engine will start only when transmission is in neutral or park.

20) Mechanical clutch equipped vehicles must have an SFI approved explosion-proof bell housing and a "block saver" steel or aluminum plate between the engine and bell housing.

21) Fully automatic transmission vehicles must have 4.1 SFI approved safety blankets covering not only body of transmission but also complete bell-housing portion. Lenco transmissions are required to have approved explosion blanket.

22) Blankets must be in good condition with SFI date legible and within a 5-year date, or must be recertified by manufacturer of blanket, or replaced.

23) All rules will be enforced by the technical personnel on site referred to as "Technical committee". The technical committee, which is headed by the Tech Director of the Association, will strictly enforce all rules set up by the OTTPA and has the authority to disqualify any contestant if he is not meeting OTTPA specifications prior to hooking to the sled.

24) Violation of any rule shall constitute a disqualification.

25) In the event of disputes, infractions, clarification, all decisions rendered by tech officials will be final.

26) Seat belts are required and must be worn when vehicle is pulling.

27) All competition vehicles (modified tractors are exempt) must have a complete firewall ½ inch thick with no holes except for controls. Holes not to exceed inch larger than the controls.

28) All turbo charged engines exhaust stacks need to remain intact while hooked to sled. If it falls off the vehicle it will result in a disqualification. Puller still receives last place points.

29) Exhaust turbine outlet, 2 bolts minimum, ½ inch diameter grade 5 only. Must be installed in a cross pattern as close to the turbine exhaust wheel as possible.

## **Protests**

1) All protests must be made before prize money is handed out.

a) Protest fee is \$50.00 for any rule except head and engine check.

b) If the protested vehicle is found to be illegal, all prize money for that pull and points for the year are lost and the protestor is returned his protest fee.

c) If the protested vehicle is found to be legal, he (the protested vehicle) keeps the protest fee and all prize money, if any is involved.

2) To protest engine size a \$1500.00 protest fee is required for a pump and/or tear down of the engine.

a) Protests that require the removal of the head (check head legality-cubic inch protest) from the engine are \$1500.00 in cash.

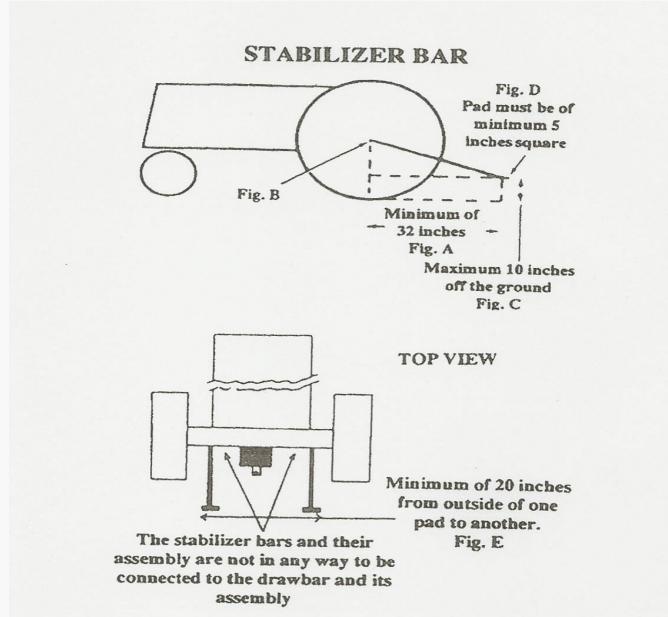
b) The protest must be done in writing and signed by the class member that is protesting.

c) If found legal, the person being protested will receive \$1300.00 and \$200.00 will go to OTTPA Tech.

3) All protests will be handled by the Competition Director and the member board.

## **Stabilizer Bars Tractors**

- 1) Stabilizer bars are required (no wheels allowed).
- 2) The drawbar and drawbar assembly will not in any way be attached to the stabilizer bar assembly. The stabilizer bar must extend a minimum of 32 inches behind a line (Fig. A) drawn from the center of the wheel (Fig. B) to the ground. Pad must not be more than 10 inches off the ground (Fig. C) at 32-inch point and to be measured during hitch check before competition. The stabilizer pad must be a minimum of 5 inches square (Fig. D), with a minimum of 20 inches allowed from the outside of one pad to the other (Fig. E).



- 3) No crossbars between stabilizer bars allowed behind point of hook.
- 4) All tractors, in addition to stabilizer bars, must have a brace that extends vertically 12" from the rear most tip of skid pads. There must be a support brace extending inward to frame, axle or top of stabilizer bar arms. Material used must be of minimum strength of materials used for stabilizer bars. Design and materials must withstand severe impact of sled.
- 5) Vertical brace should extend rearward a minimum of 2" from radius of rear tire.
- 6) Tractor skid plates for front axle are required specifications are:
  - a) A skid plate must be mounted in line with each frame rail and extend from the center of the front axle forward (on both sides equal in strength to the frame rail material).
  - b) Skid plate surface to be a minimum of 4 inches wide and 12 inches long with a minimum of a 6-inch curve when measured from the front most part of the rolled edge.
- 7) Front axle support to be made of 2-inch x .095 chrome moly steel tubing or same material as tractor frame rails. Front axle support should be connected to each frame rail in line and extend towards front of tractor. Front axle skid support should have a radius to prevent digging into track. Front axle support should be strong enough to support the front-end weight of tractor. Support should be a minimum ground clearance of 4 inches and a maximum of 6 inches.
- 8) On modified tractors where the hitch and wheelie bars are connected to the same frame, the wheelie bars must be fastened at least 4" ahead of the hitch.

### **Two Wheel Drive Trucks**

All Two Wheel Drive Trucks must have stabilizer bars (no wheels allowed). Stabilizer bar length must be a minimum of 2" back from the furthermost point of the tire with a 5" square pad on the bottom maximum 6" high if within tire track or 10" high if not within tire track.

### **Supercharger/Turbocharger**

- 1) All turbochargers not under hood must be completely shrouded, except for inlet and exhaust pipes, with steel 0.060" or thicker. Turbochargers under fiberglass hoods must be completely shrouded with 0.060" metal under the area of the

fiberglass, except for inlet and exhaust pipes. All turbos facing sideways (i.e. towards the crowd) are to have .060 metal in front of the turbo wheel to prevent the wheel from escaping.

- 2) All blower burst panels must discharge straight up or down.
- 3) No chain type couplers allowed for engine drive line connection.
- 4) No titanium wheels in any turbo chargers allowed in any class.

## TRUCK GENERAL RULES

Any owner that is found illegal by tech and knows he is legal may prove himself by tearing down. When any vehicle is found illegal on cubic inch, the vehicle and owner will be suspended for 1 year and ten (10) days and will lose his points for the entire season.

### Drawbar/Hitch

- 1) Drawbar height or distance from center of rear axle cannot change during the pull.
- 2) Hitch point to rear axle centerline must be a minimum of 36% of wheelbase for pro stock and 30% for modified.
- 3) Primary hitch must be secure to the vehicle frame and rigid in all directions. Hitch stem may be any length, as long as point of hook is not less than the minimum % rule of wheelbase, maximum distance cannot change during hook.
- 4) Hitch stem angle must not exceed 25 degrees measured on the stem with angle finder. Main stem must be straight from point of hook to pivot point (on same plane)
- 5) Adjuster going to rear end must be attached on center line or lower.
- 6) Hitch adjuster support (turnbuckle sear) must be vertical.
- 7) Hitch adjuster must be located no more than 6 inches from point of hook.
- 8) Hitch height cannot exceed 26 inches from point of hook to ground or track.
- 9) Hitch cannot pull from rear end.
- 10) Vehicles must have vertical bumpers at the rearmost point of the vehicle. Bottom of bumper to be a minimum of 18 inches from the ground. Bumper to extend a minimum of eight (8) inches vertically. Must be rigid.
- 11) An area five (5) inches wide and twelve (12) inches high immediately above the drawbar must be free of all obstruction (including weights, wheelie bars and second drawbars) for ease of hooking and unhooking.
- 12) No L-shaped drawbars or trick hitches, which will be enforced by putting a straight edge from the point of the hook to the center of the pivot point.
- 13) If body extends more than twelve (12) inches behind point of hook, the open area must be eighteen (18) inches above the drawbar and 24 inches wide at rear most point of body.

### Driveline/Drive Shielding

- 1) Vehicle must have three (3) round metal loops per drive shaft.
- 2) 360-degree loop must be a minimum of 3/8-inch aluminum or 5/16-inch steel, 3/4-inch-wide (or wider) and not more than 2 inches from the shaft in any direction.
- 3) End loops to be placed no farther than six (6) inches from universal covers, with third loop in center of shaft.
- 4) Must use a solid tube (3/8-inch aluminum or 5/16-inch steel) to meet the above requirements.
- 5) If planetary reductions at wheel are used, the following drive shaft shielding criteria will apply.
  - a) No cast metals.
  - b) All remaining drive train, excluding additional manual transmissions, must be enclosed in 5/16-inch minimum steel or 3/8-inch aluminum, round, inside diameter not to exceed two (2) inches more than the outside diameter of the largest universal joint, fastened every six (6) inches or closer, with 3/8 inch or larger bolts, grade #5 or butt and seam welded and securely mounted to vehicle's frame. Applies to all vehicles with exposed drive shaft. No more than ¼ inch of the end of driveline shall be visible with driveline shielding in place.
  - c) Drive shafts between engine and transfer case must have solid shielding a minimum of 3/8-inch aluminum or 5/16-inch steel.
  - d) Vehicle must have 360-degree metal shield around the universal joints, 3/8-inch aluminum or 5/16-inch steel, minimum width six (6) inches. Joint should not be visible from side, top or bottom.
  - e) May use solid tube (3/8-inch aluminum or 5/16-inch steel) to meet the above requirements.

- 6) No counterbalances permitted in driveline.
- 7) No cam type rear-ends. All rear ends must be welded or bolted solid to the frame with a minimum of 3 bolts per side.
- 8) The following rule will apply to all divisions that use solid driveline shields over 16 inches in length:  
Note: this also applies to Mini Rod division and the intermediate shaft on FWD. All driveline shield components must be tethered on each end by two opposing restraints, Tethers must attach at 180 degrees of each other and a minimum of 3" and a maximum of 6" from each end of each driveline shield component.  
Tether to be constructed of a minimum of 2" wide by 1/8" thick nylon or polyester strap. One end of tether must attach to one side of the chassis then go around the driveline shield then attach to the other side of the chassis. Tether must be attached to chassis by a minimum of one 3/8" grade 5 bolt with a grommet on each side or wrap around the chassis and use a buckle to fasten it to itself.

Note: FWD drivelines that use driveshaft hoops must use same tether configuration to be attached to main or common hoop holder between chassis and hoop assembly.

NOTE: If a split design is used, mount as in Rule 5b above.

#### **Body/Doors**

- 1) All side doors must be on and closed during competition. Vehicle doors must have a single latch design, allowing the door to be opened from both the inside and the outside.
- 2) Front and back safety glass or Plexiglas required.
- 3) Flip-top-body type vehicles and vehicles that do not have two (2) working doors or less than stock size window openings; must have door glass lowered or removed while under green flag and must have an escape hatch with a minimum size of 17 inches X 18 inches. Working left hand door RECOMMENDED for safety issues.
- 4) Vehicles that do not have working doors must carry an onboard fire system with a minimum of three (3) nozzles located within the driver's compartment/engine compartment. And drivers must wear SFI 3.2A5 protective fire suits.
- 5) May compete without bumpers, tailgates, van rear doors for greater hook point visibility.
- 6) Truck bodies may be a fiberglass complete body or components.
- 7) Vehicle box must have a floor or bed cover.
- 8) Tinted or shaded windows hindering driver's vision out the front or back will not be allowed.
- 9) Flip-top or funny car type vehicles must have body in lowered position before vehicle may be moved under its own power.
- 10) Flip-top bodies must have a safety lock to hold up the body.
- 11) Body may be raised to start engine and may stay raised while engine is running as long as vehicle is not in motion.

NOTE: Escape hatch will not be counted as a working door

#### **Operator's compartment**

- 1) No fuel tanks, fuel pressure gauges, fuel pumps and/or fuel lines are allowed in the operator's compartment.
- 2) If the fuel tank is located behind the driver, a fire barrier is required from the firewall to the rear of the driver's seat. (0.060-inch aluminum or steel is an acceptable fire barrier material.)
- 3) No radiator, heat exchanger and/or water hoses allowed inside the operator's compartment.
- 4) If a battery is inside the operator's compartment, it must be safely enclosed and securely fastened

#### **Weights/Wheels**

- 1) All weights must be securely attached to vehicle. Loose ballast (sandbags, rocks, unattached metal, etc.) not allowed.
- 2) No dual wheels, chains or studded tires allowed. All tires must have rubber or rubber compound contact between tire and pulling surface.
- 3) Axle and hub bolt shield required, except where planetary final drives are used.
- 4) Shield must be at least 0.060 inches thick.
- 5) Minimum diameter of axle end or hub bolts to be covered on both front and rear axles.
- 6) Mounting shield cannot be mounted to axle end or hub bolts.
- 7) A hole may be installed in center of front shield, so a lock can be operated, so long as hub end or axle bolts are covered.

### **Engine**

- 1) All pulling vehicles must be required to have a steel plate or billet flywheel. The flywheel must be made of steel with the following mechanical properties: tensile strength of 60,000 PSI and yield strength of 40,000 PSI. Any aluminum or magnesium flywheel that meets or exceeds SFI specs will be acceptable. Clutch papers must be on file in the office and must be produced upon demand. SFI approved—new papers are due each year.
- 2) Any truck with engine-driven fan blade is required to have a fan shroud of 1/16-inch minimum steel, 360 degrees around the blade. Shroud shall be no more than one (1) inch from radiator core and one (1) inch past rear blade.
- 3) All exhausts must discharge vertically or underneath and straight back.
- 4) Only one (1) automotive type engine per vehicle.

### **PRO STOCK 4WD TRUCK (P4x4)**

**Unless specifically outlined below in the class specific rules, the Truck General Rules and the overall General rules outlined above apply.**

### **Weights and Wheels**

- 1) Tires must be street legal. No tread alterations of any kind—sharpening, cutting, re-grooving, or tread touch up is not allowed. No larger than 33 x 12.50 x 16 or 305 x 16 only DOT approved with factory stamp. The size must be displayed on the tire.
- 2) Solid rear suspension allowed.
- 3) Any rear-end housing size is permitted. Maximum of one-ton front-end housing allowed. The width of the housings is to be like the width of the factory housings.
- 4) Weights/weight bar must not extend forward more than sixty (60) inches from the centerline of front axle.
- 5) 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 (1) inch.
- 6) Tires can be sanded/trued up, but CANNOT alter tread design, pattern angle or shape.

### **Engine**

- 1) Engine must be the same make as vehicle. Rear edge of block to center of axle can be no less than 14". May only run cast iron blocks with any cast iron heads or aluminum type heads also acceptable are NHRA pro stock legal with wedge shaped combustion chambers, no hemi type chamber (can have spark plug in middle through valve cover), OEM or after market. Any internal engine modification allowed.
- 2) Any single 4500 carb flange, 4-barrel manifold required naturally aspirated. Sheet metal intake manifolds are allowed.
- 3) A 1% variance to the engine limit of 485 cubic inches.
- 4) Maximum engine bore spacing of 4.9 inch.
- 5) No electronic timing devices.
- 6) No traction control, no digital boxes.
- 7) All boxes must be sent away and sealed by MSD prior to pulling.

### **Body/Chassis**

- 1) All body components must have factory production OEM frame.
- 2) Vehicle must retain original wheelbase plus or minus ½ inch and stock appearance, 133" maximum.
- 3) Hood scoops optional.

### **Hitch**

- 1) Any nonmember or puller that does not conform to rules shall lose 2 inches of hitch height. Or 200 pounds of weight by their choice.

- 2) Hitch will be measured with NO ONE standing on the back of the pickup while measuring hitch. NO moving of weight after scale.

#### **Drawbars**

- 1) Primary hitch must be secure to vehicle frame in all directions, Hitch stem may be any length, as long as point of hook is not less than 36% of wheelbase.
- 2) Hitch point to rear axles centerline must be a minimum of 36% of wheelbase. This distance cannot change during the pull.
- 3) Hitch stem angle must not exceed 25 degrees measured on the stem w/angle finder. Main stem must be straight from point of hook to pivot point. (On the same plane).
- 4) No part of hitch can be attached or come into contact w/ rear axle during pull except the Stem adjuster.
- 5) Hitch adjuster must not locate more than 6 inches from point of hook.
- 6) Hitch height cannot exceed 26 inches from point of hook to ground or track.
- 7) No "L" shaped drawbars. No "Reese style" or telescoping hitches. Stem must be rigid 1 piece.
- 8) No drawbar angle greater than the angle of the sled chain. Acceptable angle is 0 degree to a maximum of 25 degrees. This will be measured by the angle of a straight edge from the point of hook to the center of the pivot point.
- 9) All turn buckles that control drawbar height from BELOW the drawbar must be vertical or angle FORWARD from the attachment point on the drawbar to axle housing. Attachment point on axle cannot be above centerline of axle housing.
- 10) All turn buckles that control drawbar height from ABOVE the drawbar must be vertical or angle BACKWARD from attachment point on drawbar to frame.
- 11) Maximum hitch height shall be 26 inches. This maximum cannot change during pull.
- 12) Drawbar to be made of steel, minimum of two (2) square inches' total material at any point. This will include the area of the pin with pin removed. Pins will be minimum of 7/8-inch diameter. Drawbar must be equipped with steel hitching device constructed of not more than 1 ½ inch square nor less 1-inch square (1 1/8-inch round stock) with an oblong shaped hole of 3 ¾ inch long by 3 inch wide.
- 13) No cam type rear ends. All rear ends must be welded or bolted by a minimum of 3 bolts per side solid with a minimum of 3 5/8 grade 5 bolts per side to the frame.

#### **Transmission**

- 1) Aftermarket transmission and transfer case allowed.

#### **Fuel & Water**

- 1) Alcohol fuels and propylene oxide are not allowed.
- 2) VP Fuel and water only with all vehicles. A \$50 fine will be accessed for lack of fuel and water test ports for all classes. Also, for any minor infractions of fuel or water quality. Each vehicle must display 2 VP Racing Fuels decals one on each side.

Member must attend at least 50% of the hooks to submit a rule change request.

### **DIESEL 4X4 TRUCKS (D4x4) 3.0**

**Unless specifically outlined below in the class specific rules, the Truck General Rules and the overall General rules outlined above apply.**

Driver Restraint System: The OEM restraint system is mandatory and must be worn.

Brakes: Four-wheel hydraulic brakes are mandatory.

#### **Body/Chassis**

- 1) The body must be the OEM truck body. The body must retain full sheet metal, after market hoods are permitted. The hood must be closed and securely latched while the vehicle is hooked to the sled.
- 2) 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.
- 3) The complete OEM firewall and floor pan is mandatory.
- 4) Must have tonneau cover and tailgate if bed floor is removed.
- 5) No sheet metal in tanks allowed.
- 6) No traction control permitted.

### **Drawbar/Hitch**

- 1) Hook point must be no closer than 44 inches of centerline of rear axle.
- 2) Hitch height maximum of 26 inches with a minimum of 3.75-inch-long by 3-inch-wide opening.
- 3) Hitch point must be easily accessed, no trick type hitches permitted.
- 4) Hitches must be stationary in all directions and must be frame mounted.
- 5) Hitch must be mounted center line of the rear axle or behind.
- 6) Hitch must not exceed a maximum of 25-degree angle from pivot point to hook point.
- 7) Hitch pivot point is allowed to be above frame rail.

### **Wheels/Weights**

- 1) 7,500 minimum weight – 8,000 lbs. maximum weight.
- 2) Ballast is permitted. Front hanging weights are allowed, not to exceed 60 inches forward of the center of the front axle. This will be measured from center of front wheels to end of weight assembly. Ballast may be added in bed of the truck.
- 3) The tires must be DOT street tires. Maximum size of a 35 inch 12.50 or metric equivalent allowed. Cut tires are prohibited. 102-inch maximum outside tire to outside tire. Rear duals are allowed.
- 4) Wheelbase: Maximum wheelbase is 158 inches. Rear dual wheels allowed.

### **Transmission/Drive shaft**

- 1). Open drive line from flywheel back. Any transmission or transfer case allowed.
- 2) All trucks must have at least six-inch-wide u-joint shields around the rear u-joint constructed of at least  $\frac{1}{4}$  inch steel or a 3/8-inch aluminum that will safely contain the u-joint and the end of the rear shaft. All shields must be securely mounted to the vehicle. Any front shaft u-joint that is visible from the side of the truck must be shielded to contain the u-joint and the end of the shaft. Recommend that all u-joints be covered, and drive shafts have the 3-additional hanger loop as specified in the truck general rules.

### **Engine**

- 1) The engine is limited to a stock appearing engine, which can be interchanged between Dodge, Ford, Chevy, etc. as long as they came in a one ton or smaller pickup from the factory. Complete engine must have stock appearance except where otherwise noted in these rules. Aftermarket intake manifolds are allowed.
- 2) Turbocharger: The vehicle is limited to a 3-inch slick bore without map ring. All provisions allowing the air into the wheel other than via bore is prohibited. The vehicle driver will be responsible for making compressor wheel accessible for tech personnel to measure bore. No removable plugs or reducers allowed to reduce to legal spec.
- 3) Water Injection: Water injection is prohibited. All water injection system components must be removed from the truck.
- 4) Intercoolers: Ice water intercoolers are allowed.
- 5) Exhaust: All vehicles must be equipped to direct exhaust upward. Two 1/2-inch diameter bolts must be placed through the exhaust pipe in a cross pattern one inch of each other, within 12 inches of the turbo.
- 6) Fire Extinguisher System: A fire extinguisher system is permitted.

### **Fuel & Water**

- 1) Fuel must test 150 or below with all vehicles. (Must buy 20 gallons of VP fuel in a year.) VP DX Fuel is allowed. A \$50 fine will be accessed for lack of fuel and water test ports for all classes. Also, for any minor infractions of fuel or water quality. Each vehicle must display 2 VP Racing Fuels decals one on each side.
- 2) Max one P7100 (2 5/8" w 9 9/16" L 8 3/16" H pump body. The use of multiple high-pressure common rail fuel pumps is legal. Power stroke engines with a single factory turbo may utilize a second HPOP. Pumps from different years in the same engine model may be interchanged. P7100 pumps are allowed to run RSV (ag governors).
- 3) Racing fuel cells are permitted.

### **Steering and Suspension**

- 1) Steering:-Aftermarket steering is allowed.
- 2) Suspension, Front: The upper mounting point for strut assemblies must be in 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 limited straps are permitted. Traction bars and devices are permitted. Final decisions rest with the tech officials.

- 3) Suspension, Rear: Welded rear end suspension allowed.

#### **Transmission,**

- 1) Rear axle bolts must be covered by cap or shield.
- 2) Automatic: Aftermarket torque converters, valve bodies and internal components are permitted. Transmission brakes are prohibited. Any non-OEM floor mounted automatic transmission shifter must be equipped with a spring loaded positive reverse lockout device to prevent the shifter from accidentally being put into reverse gear. A functional neutral safety switch is mandatory. All transmission lines must be metallic or high-pressure type hose. All vehicles 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 and must be appropriately labeled as meeting SFI spec 4.1. It must extend from the rear of the block to the front of transmission main body and the bell housing area is to be completely covered with a six-inch overlap where it is fastened. All non-blanket type shields must incorporate two (or one, per manufacturer's instructions)  $\frac{3}{8}$  inch by 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 using an automatic transmission must be equipped with a flex plate meeting SFI spec 29.1 and covered by a flex plate shield meeting FIT spec 30.1.
- 3) Manual: Aftermarket internal components are permitted. A clutch with minimum SFI spec 1.1 or 1.2 is mandatory on all vehicles. All manual transmissions must be clutch assisted. Sequential shifters are prohibited. All vehicles equipped with a manual transmission must have a flywheel shield labeled as meeting SFI sped .3 or greater. Application 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 that bell housing. It must be attached to the block and extend rearward to the transmission with a minimum six-inch overlap where it is fastened.

### **DIESEL 4X4 TRUCKS (D4x4) 2.6**

**Unless specifically outlined below in the class specific rules, the Truck General Rules and the overall General rules outlined above apply.**

**Turbo:** Turbo is limited to a 2.6" inducer bore. Bore must be smooth. No MAP Width Enhancement groove (MWE) allowed. Compressor wheel must protrude into 2.6" bore for 1/8". Bore will be checked with a 2.605" turbo plug. Plug must not be able to enter inducer bore and contact wheel.

**Brakes:** Front wheel hydraulic functional brakes are mandatory.

#### **Wheels/Weights/Tires**

- 1) Ballast is permitted. Front hanging weights are allowed, Weight not to exceed 60 inches forward of the center of the front axle. This will be measured from center of front axle to end of weight assembly. Ballast may be added in the bed of the truck. Weight box permitted only for weight.
- 2) The tires must be DOT street tires. Cut tires are prohibited. 35x12.50 maximum Factory dually trucks are allowed but must be STOCK size tires for that year and model.
- 3) No duals allowed.

#### **Engine**

- 1) 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.
- 2) Blocks must circulate coolant freely. No hard-filled blocks. Water pumps may be factory or electric powered. 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 cooling fans are permitted.
- 3) Exhaust: All trucks must be equipped to direct exhaust upward. Hood stack permitted. Two 1/2 inch diameter bolts must be installed through exhaust pipe in a cross pattern within 1 inch of each other, as close to the turbo as possible.
- 4) Cooling System: Radiators must be in stock location and be of at least stock size

- 5) Harmonic Balancer: All engines turning more than 4500 RPM must be equipped with a harmonic balancer or dampener meeting SFI Spec 18.1.
- 6) Intercoolers: Factory style or aftermarket air-to-air coolers allowed. No types of water to air coolers, no use of ice, water, cooled gas/vapor, or spray bars allowed.

#### **Fuel & Water**

- 1) Hand throttles permitted.
- 2) Fuel cell permitted in factory location or mounted securely in the bed.
- 3) VP Fuel and Water only with all vehicles. VP DX Fuel is allowed. A \$50 fine will be accessed for lack of fuel and water test ports for all classes. Also, for any minor infractions of fuel or water quality. Each vehicle must display 2 VP Racing Fuels decals one on each side.
- 4) Fuel Injection Pump: The fuel injection pump is limited to cylinder number specific (I.e. 6-cylinder pump on a 6-cylinder motor). Dual high-pressure common rail fuel pumps or HPOPs are allowed. Ag governors permitted. No Sigma or 12-cylinder pumps allowed. P pump 3000 or 7100, 13 mm plungers max, ag or street governors.
- 5) Nitrous Oxide: Nitrous Oxide is prohibited. No other oxygen extenders are allowed. All system components must be removed from the truck.
- 6) Propane: Propane is prohibited. All system components must be removed from the truck.
- 7) Water injection is prohibited. All system components must be removed from truck.

#### **Steering & Suspension**

- 1) Driveline: An OEM transmission and transfer case are mandatory. They must have been an option on a one ton or smaller pickup.
- 2) Rear End: Non-OEM rear-end housings are prohibited. The rear end housings must have been for a one ton or smaller pickup. Rear axle bolts must be covered with a cap or shield.
- 3) 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 or backward) are 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.
- Suspension - Rear: The upper mounting point for strut assembly must be in factory location. Adjustable caster/ camber pillow ball mounts are permitted. The lower control arm may be strengthened provided the factory mounting points are maintained. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Traction bars and devices are permitted. Raising or lowering of vehicle height with suspension modifications is permitted but must be bolt on only. Welds permitted for attachment to frame and axle only. Blocked suspension permitted. No air bags. Rear suspension may be made solid.

#### **Body/Chassis**

- 1) Batteries: Cannot be in the cab.
- 2) Body: The body must be OEM truck body including the full bed floor. No flatbeds permitted. The body must retain the full sheet metal. After market hoods permitted. The hood must be closed and securely latched when hooked to sled.
- 3) Chassis: The OEM chassis is mandatory. The engine must be in the OEM location for the body used. The vehicle must retain the OEM chassis and wheelbase, not to exceed 172". Wheel tubs, back half conversions, tube chassis, etc., are prohibited.
- Deleted section on interior.
- 4) Kill Switches: All trucks are required to have kill switch located on the back of the truck, located near the hooking point. On trucks with an electric injection fuel pumps it must have an electric shut off or disconnect for the injection pump on the back of the truck. It is recommended to have an air shut off on all trucks. Kill switch failure will result in disqualification. Electric shut off or air is permitted.
- 5) All visible u-joints must be shielded, along with axle bolts.
- 6) Steering: Hydraulic steering permitted

#### **Drawbar & Hitch**

- 1) Hitch: Hitch must be frame mounted. The use of Reese style hitches is prohibited. Hitch must be centerline of rear axle or behind. Hitch must not exceed 25-degree angle from pivot point to hook point. No hitch supports or adjusters fastened to

rear axle housing shall be above center point of rear axle. Pivot pin of drawbar can be no further forward than the centerline of rear axle.

2) Hooking point: The hooking point is defined as the point of contact between the hook of the sled and the rearmost part of the opening of the hitch (i.e. - where the hook drops). Hooking point must have a minimum of 3 inch by 3  $\frac{3}{4}$  inch inside opening for the sled hook. Hooking point must be parallel to the ground and must not hinge or pivot in any direction. Hook point to be no closer than 44" of centerline of rear axle and maximum hitch height of 24". Hitch must be stationary in all directions. Final decision of legality of all hitches resides with the head tech official.

#### **Transmission**

1) Transfer Case: Non - OEM transfer cases are prohibited. It must have been an option on a one ton or smaller pick-up truck.

2) Transmission - Automatic: Non - OEM transmissions are prohibited. 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. 3) All vehicles using an automatic transmission must be equipped with a flex plate meeting SFI Spec 29.1. A blow proof transmission blanket must be used.

4) Transmission - Manual: Non - OEM transmissions are prohibited. Aftermarket internal components are permitted. A clutch meeting minimum SFI Spec 1.1 or 2.1 is mandatory on all engines. All manual transmissions must be clutch assisted. Sequential shifters are prohibited. All transmissions or clutch pedals will have a safety interlock switch so that vehicle will not start in gear. A blow proof transmission blanket must be used.

### **MODIFIED 4WD TRUCKS (4WD)**

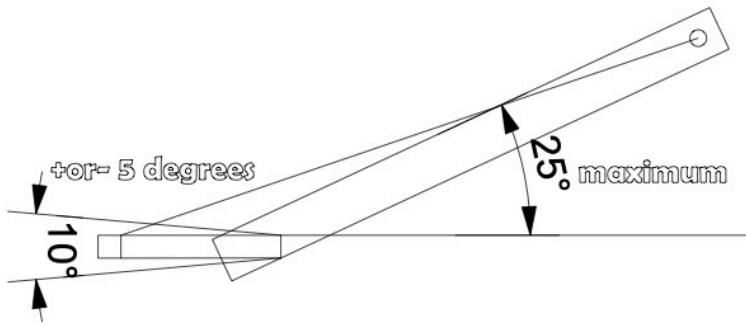
**Unless specifically outlined below in the class specific rules, the Truck General Rules and the overall General rules outlined above apply.**

- 1) Vehicles in this class must be 4 Wheel Drive
- 2) All pulling vehicles must have an automatic ignition kill switch/or air shut off. All ignition engines must have a kill switch in working order within easy reach of the driver.
- 3) No electronic traction control devices such as MSD digital, Davis Electronics or power grid will be allowed.
- 4) No electronic fuel injector or metering devices allowed such as timing retards or fuel lean out all must be triggered manually by the driver as the vehicle pulls.
- 5) Wiring and components must be readily visible for inspection.

#### **Body/Chassis**

- 1) Vehicle must have hood, grille & fenders in place as intended by manufacturer.
- 2) Vehicle body style must be or have been available from a dealer as mass-produced. Fiberglass replicas will be allowed.
- 3) Vehicle must maintain original appearance.
- 4) Vehicle appearance:
  - a) No bare chassis or flat beds permitted.
  - b) Must have metal frame.
  - c) Non-metal floor allowed in bed.
  - d) Windshield but can be removed in foggy conditions at time of pull. If you Don't have windshield, you need to have your face shield down on your helmet.
  - e) Fiberglass hood scoops, spoilers, fender flares are allowed. NOTE: Contact the OTTPA Board for Variance
- 5) No onboard compressors or controls that can change the suspension. Single fill point for all air suspensions.

#### **Drawbars/Hitch**



- 1) Primary hitch must be secure to vehicle frame in all directions, Hitch stem may be any length, as long as point of hook is not less than 30% of wheelbase.
- 2) Hitch point to rear axles centerline must be a minimum of 30% of wheelbase. This distance cannot change during the pull.
- 3) Hitch stem angle must not exceed 25 degrees measured on the stem w/angle finder. Main stem must be straight from point of hook to pivot point.
- 4) No part of hitch can be attached or come into contact w/ rear axle during pull except the Stem adjuster.
- 5) Hitch adjuster must not locate more than 6 inches from point of hook.
- 6) Hitch height cannot exceed 26 inches from point of hook to ground or track.
- 7) No "L" shaped drawbars.
- 8) No drawbar angle greater than the angle of the sled chain. Acceptable angle is 0 degree to a maximum of 25 degrees. This will be measured by the angle of a straight edge from the point of hook to the center of the pivot point.
- 9) All turn buckles that control drawbar height from BELOW the drawbar must be vertical or angle FORWARD from the attachment point on the drawbar to axle housing. Attachment point on axle cannot be above centerline of axle housing.
- 10) All turn buckles that control drawbar height from ABOVE the drawbar must be vertical or angle BACKWARD from attachment point on drawbar to frame.
- 11) Maximum hitch height shall be 26 inches. This maximum cannot change during pull.
- 12) Drawbar to be made of steel, minimum of two (2) square inches' total material at any point. This will include the area of the pin with pin removed. Pins will be minimum of 7/8-inch diameter. Drawbar must be equipped with steel hitching device constructed of not more than 1 ½ inch square nor less 1-inch square (1 1/8-inch round stock) with an oblong shaped hole of 3 ¾ inch long by 3 inches wide.
- 13) No cam type rear ends. All rear ends must be welded or bolted by a minimum of 3 bolts per side solid with a minimum of 3 5/8 grade 5 bolts per side to the frame.

#### **Engine**

NOTE: Automotive engine is any engine or its replica available in a passenger car. A maximum of eight (8) cylinders. A replica, to be considered legal must accept and swing a stock crankshaft. No diesel engines permitted.

- 1) Must have a 3-point engine mount and a support saddle for the rear of the transmission.
- 2) Engines must be naturally aspirated only.
- 3) Engine must be in stock location, which is defined as being within engine compartment as manufactured, behind stock grille and in front of stock firewall.

- 4) Vehicle may run without radiator, engine may be moved forward, but engine must stay behind the grille, except for high performance type starters and accessories with crankshaft.
- 5) Rear of engine block may not be moved forward of centerline of front axle
- 6) VP Racing Fuels only. No pressurized fuel system. No M3, M5, or oxygenated type gas allowed. No nitro-based fuel nitro or power enhanced alcohol will be allowed, no oxidizing type fuels. Top lube allowed. Each vehicle must display 2 VP Racing Fuels decals one on each side.
- 7) No superchargers or turbo chargers allowed.
- 8) Engine may have a maximum bore spacing of five (5) inches.
- 9) Automotive engines at all levels of competition are only allowed to run a maximum of two (2) valves per cylinder.
- 10) Fuel injection (and carburetors) and header may protrude through the hood.

NOTE: 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.

- 11) Vehicle must have vertical exiting exhaust; height of pipe must be a minimum of one (1) foot above the bend. NOTE: Vertical is defined as "being in plumb" with a ten (10) degree variance in any direction permitted.
- 12) Vehicles to conform to provision of Modified Tractor engine shielding. NOTE: Entire engine to mean anything that is bolted to the engine block.

#### **Frames**

- 1) May be different from the make and model of the truck body.
- 2) Tubular steel frame is allowed.

#### **Wheels/Weights**

- 1) Center of wheels cannot exceed plus or minus six (6) inches of fender wells for wheelbase being used, which means a vehicle may run up to a maximum of 133-inch wheelbase.
- 2) Wheels must be in fender wells as described above. The body may be stretched in the middle to accompany this.
- 3) 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 (1) inch.
- 4) Weights/weight bar must not extend forward more than sixty (60) inches from the centerline of the axle.
- 5) Tires are a maximum tire size to be 112-inch circumference on an 18-inch rim inflated to 30 PSI, with original bar not to exceed 18 inches in width before cutting.
- 6) All measurements on the rough are allowed + or - 1 inch until can be measured properly on flat surface.

### **SUPER MODIFIED 2WD TRUCKS (2WD)**

**Unless specifically outlined below in the class specific rules, the Truck General Rules and the overall General rules outlined above apply.**

NOTE: Vehicles in this division will adhere to all pertinent criteria of modified tractor safety, construction, unless special variations are noted.

#### **Body/Chassis**

- 1) The maximum length of the vehicle is no more than 15 feet from centerline of rear axle to forward most portion of the vehicle including the weight racks.
- 2) The 15 foot from center of rear axle overall rule will apply to all 2WD vehicles with the exception of a ten (10) inch over-length allowance for cosmetic fiberglass only. No steel structure, reinforcement, or steel bumpers allowed past 15 feet. Tow hook to be consistent with 15-foot rule.
- 3) Maximum width of vehicle is eight (8) feet.
- 4) Chassis (frame) may be truck frame or fabricated frame like modified tractors.
- 5) Vehicle appearance:
  - a) Fiberglass hood scoops, spoilers, fender flares are allowed.

- b) Allowed to use stock appearing pickup truck and van fiberglass bodies and parts. -
- c) All 2WD vehicles must have a presentable front windshield of glass, Plexiglas or Lexan. Does not have to be a full windshield.
- d) Vehicle to conform to provisions of modified tractor engine shielding.

#### **Frame**

- 1) Tubular steel frame is allowed.

#### **Wheels/Weights/Tires**

- 1) Weights are not to extend forward of maximum length stated in Rule 1 under the Body/Chassis section above, not rearward more than 12 inches from hitch point and must not interfere with hitching and unhitching of vehicle.
- 2) Any factory production body truck or van is allowed including passenger-type bodies.
- 3) Must run a minimum of 14-inch front rims with an automotive or front tractor tire.
- 4) Any wheelbase is permitted.
- 5) Front wheel and axle to remain in the visual center of the front wheel well. Maintain minimum of two (2) inches of complete original type wheelhouse forward of front wheel. Must be able to see forward most part and rearward most part of tire from a side view.
- 6) Rear tire diameter shall not exceed 143-inch circumference when mounted on an 18-inch rim and inflated to 28 PSI. The ground patch is not to exceed 19 inches based on the original tread.
- 7) Maximum pull distance of 340 feet. Any 1<sup>st</sup> hook over 340 the sled must reset.

#### **Driveline/Clutch**

- 1) No electronic, pneumatic or hydraulic devices that effect the clutch system are allowed. All staged or variable released clutches of any description prohibited. (This does not affect slave cylinder for clutch pedal.)
- 2) All 2WD vehicles engine/automatic transmission combinations must have either:

NOTE: Engine to clutch to transmission to be constructed like the modified tractors. Torque converters, automatic shifts, etc. are permitted.

#### **Engine/Engine Limitations**

- 1) Must have a 3-point engine mount and a support saddle for the rear of the transmission.
- 2) 2WD OTTPA competition – a limit of 650 cubic inches and two (2) valves per cylinder.
- 3) There will be no timing delay devices allowed.

NOTE: Entire engine is to mean anything that is bolted to the engine block. Except for high performance type starters with crankshaft drive, rear of engine block may not be moved forward of center line of front axle. The engine is any engine or its replica available in a passenger car. Maximum of eight (8) cylinders. A replica to be considered legal must accept and swing a stock crankshaft. No diesel engines permitted.

- 4) All boosted V8 motors limited to a maximum 5" bore spacing.

#### **Super Chargers**

- 1) Maximum super charger limit is 14-71 hi-helix, no screw type super chargers permitted.

#### **Turbo Chargers**

- 1) Allow only single staged turbochargers in the division and must therefore follow the safety rules that apply to all turbocharged engines which are found in the General Rules Section under Supercharger/Turbocharger.

#### **Fuel & Water**

- 1) Fuel injection and carburetors and headers may protrude through the hood.
- 2) VP Fuel and water only with all vehicles. A \$50 fine will be accessed for lack of fuel and water test ports for all classes. Also, for any minor infractions of fuel or water quality. Each vehicle must display 2 VP Racing Fuels decals one on each side.

NOTE: Bubble or scoop is optional, but if used, the scoop or bubble must cover the carburetor(s) of fuel injection, if induction system protrudes through the hood.

#### **Exhaust**

- 1) Vehicle must have vertical exiting exhaust.
- 2) Height of pipe must be a minimum of one (1) foot above the bend. NOTE: Vertical is defined as "being in plumb" with a 10-degree variance in any direction permitted.
- 3) Exhaust turbine outlet, 2 bolts minimum,  $\frac{1}{2}$  inch diameter grade 5 only. Must be installed in a cross pattern as close to the turbine exhaust wheel as possible.

### **6200 LB Naturally Aspirated Two Wheel Drive Trucks**

#### **Engine**

- 1) 540 cubic inch limit +1%
- 2) Only one automotive type of mass-produced engine, with only two valves per cylinder
- 3) Engine block must have standard OEM bore spacing and accept a stock OEM automotive crankshaft
- 4) Aftermarket cast iron block is allowed but aluminum blocks will NOT be allowed
- 5) NO HEMI, BILLET or Chevy spread port heads. Only 2 valves per cylinder.
- 6) Intake valve angle Chevy – rectangular port gaskets 24-degree, Ford – Cobra Jet intake gaskets, Dodge/Chrysler – 15 – degree.
- 7) The head must accept a stock OEM intake and exhaust manifold bolt pattern
- 8) No sheet metal intakes allowed
- 9) No shims/spacers between head and intake or the intake and block.
- 10) Any cast iron head with stock OEM intake pattern is allowed
- 11) Hand/CNC, porting, straight planning, larger valves and raised port heads are allowed.
- 12) NO angle planing of the heads
- 13) All carburetor or fuel injection butterfly throttle shafts must have dual return to idle arms and springs, one on each side.
- 14) No computers allowed that automatically control any mechanical operation of the competing engine, clutch or vehicle
- 15) No electronic fuel injectors or metering devices will be allowed.
- 16) No electronic traction control allowed
- 17) No electronics to engage clutch will be allowed
- 18) Electronic control devices or programmable boxes for ignition timing are prohibited
- 19) No blowers or turbos
- 20) Aluminum Heads allowed.

#### **Fuels**

- 1) Usable fuels – VP Racing Fuel, absolutely no additives – (except top lube)
- 2) No nitro, nitrous
- 3) All fuel lines must be steel braided or high pressure reinforced rubber. No plastic tubing allowed unless OEM installed and approved.

#### **Tires/Weights**

- 1) Tractor or aftermarket pulling tires. 44.8" height x 19.40" width or 16-1-18.4
- 2) No dual rear wheels allowed
- 3) Weights cannot extend more than 12 inches from drawbar

#### **Chassis**

- 1) Maximum wheelbase on all trucks is 165 inches regardless of body type
- 2) Air or hydraulic devices to raise or lower the front of the chassis is prohibited
- 3) Maximum length to be 15 foot from center of rear axle to furthest most forward point
- 4) The 15 feet from center of axle overall rule will apply to all TWD trucks except for a 10" inch over length allowance for cosmetic fiberglass only. No steel structure, reinforcement, or steel bumpers allowed past 15 feet.

- 5) All vehicles must have vertical bumpers. Bumpers must extend minimum of 8" vertically. Bottom of bumper to be a maximum of 24" from the ground.
- 6) Maximum width of vehicle is 96"
- 7) Flip/tilt top bodies or vehicles with less than stock size window openings must have a driver escape hatch no smaller than 17"x18"
- 8) Flip/tilt top body type vehicles and vehicles with less than two working doors must carry an on-board Halon fire system with a minimum of three nozzles located in driver's compartment/engine compartment and fuel compartment. Must not be expired.
- 9) All vehicles must have an approved fire wall with no openings larger than ½"
- 10) Only ¼" Lexan, .060 steel, or 3/16 aluminum are the only materials allowed for firewalls. No plexiglass firewalls permitted.
- 11) White reverse light both to the rear of the vehicle and inside the cab visible by the operator and lit while vehicle is in reverse required in all classes
- 12) Kill-switch is required on all vehicles
- 13) Must be operated from the rear of the vehicle, mounted independent of the hitch, so that the sled can shut the vehicle down. There must also be a means of shutting the vehicle down within the driver's reach.
- 14) Mandatory 4-point harness and racing seat

#### **Driveline Requirements**

- 1) A minimum .060" thick aluminum or steel deflection shielding is required on both sides of all engines. Shielding must extend the complete length of block casting, cover the area of the block from the top of piston travel to 2" below the crank centerline and be securely fastened. Solid frame rails with no holes may serve as part of the shield.
- 2) All foot operated throttle pedals must have a toe-strap
- 3) All automatic transmissions must have a positive reverse gear lockout
- 4) All harmonic balancers must be rated an SFI 18.1 spec. A bolt to hold the balancer to the crankshaft is required.
- 5) Transmission bell housing and scatter blanket requirements:
- 6) All auto transmissions and torque converters must be covered 360 degrees from the rear of the engine block to the front of the tail shaft with an SFI 4.1 spec blanket or shield. Blanket must be fastened to the engine block with two straps, one above and one below the crankshaft centerline. Blanket must have 6" of overlap on the bottom with straps that are 2" wide and no more than 1" apart. Blanket must be fastened to the engine block with two straps, one above and one below the crankshaft centerline. Blanket must have 6" of overlap on the bottom with straps that are 2" wide and no more than 1" apart.
- 7) All manual transmission clutches are required to be surrounded by an SFI 6.2/6.3 spec bell housing or an SFI 4.1/4.2 spec scatter blanket that covers the entire bell housing area from the rear of the engine to the front of the transmission. No holes allowed in the bell housing other than those put in by the manufacturer or used for clutch engagement purpose.
- 8) Driveline brake must be surrounded 360 degrees with 3/8" thick steel and both ends closed with 1/8" thick steel.
- 9) Two-wheel drive trucks must have 2 working front or rear brakes

#### **TRACTOR GENERAL RULES**

No four-wheel drive model tractor is eligible.

No OEM cast component tractors allowed.

No billet blocks allowed. This rule does not apply to the MOD Tractor class and LLM Tractor class or Mini Rods.

Maximum tire size allowed for competition: 24.5x32 with a maximum of 210 -inch circumference+ 1%, when inflated to 10 psi. on a 26-inch-wide rim. Tread width not to exceed 25 inches.

Maximum tire size allowed for competition: 30.5x32 with a maximum of 212-inch circumference + 1%, when inflated to 10 psi. on a 28-inch-wide rim. Tread width not to exceed 31 inches. No radial tires allowed.

If the OTTPA Board doubts the legality of any entry, or upon protest of another contestant in that class, the contestant in question must verify that 150 units of the tractor in question must have been manufactured (notarized statement from the manufacturer) will furnish part numbers and prove to the board's satisfaction that the tractor is a legal entry.

#### **Drawbar**

- 1) Minimum drawbar length is 18 inches from center of rear axle with a maximum height of 20 inches, rigid in all directions. Drawbar maximum of 10 degrees.
- 2) Pulling point must be within one (1) and 1 1/2 inches from back edge of hitch and no less than 3/4 inches.

## Safety

- 1) A safety secondary hitch must be mounted horizontally on the vehicle 12 inches below the drawbar, to be painted white.
- 2) Must have wheelie bars capable of supporting the weight of the tractor. Must have front skid plates. 3) Safety roll cage is mandatory as described below:

### 3) Roll cage mounting to OEM rear end housing:

- a) Roll cage must be attached to any tractor utilizing a stock, OEM rear end housing by the use of flanges constructed to form a one (1) piece, 90-degree angle of steel. Flanges to be created from 1/4-inch minimum thickness steel with a minimum of 2 1/2-inch-wide horizontal flange and a three (3) inch wide vertical flange. Angle iron is permissible. Attachment flanges must be secured to axle housings by at least four (4) axle-housing bolts, with a minimum of 1/2-inch diameter, at least grade #8 or better. Two (2) additional bolts must be installed through vertical flange, one (1) before and one (1) after axle housing. Both end attachment bolts must be located within four (4) inches of each end of vertical flange or by two (2) axle housing bolts and two (2) bolts before and two (2) bolts after axle housing.
- b) Both side flange assemblies must be connected by a rear attachment flange across back of rear end housing, made to at least minimum dimensions of side flanges. When connected, the side and rear attachment flanges will create a "U" shaped configuration. Rear attachment flange must be constructed to attach to any two (2) horizontal threaded holes in axle housing that are 1/2 inch in diameter or larger.
- c) The "U" shaped attachment flange assembly must be connected by a 1/4-inch steel strap positioned horizontal over the top of the rear end housing side to side at the front and middle of the "U" shaped structure. The strap should be welded solid to the side and rear vertical flanges to create a rigid, one-piece assembly. For maximum strength, raise the attachment flanges high enough to avoid welding horizontal plate to radius of bend or angle of attachment flange. Seat may be mounted to the horizontal plate.
- d) Support webs of 1/4-inch minimum thickness steel a minimum height of six (6) inches vertical from the base plate must be welded between vertical tubes on both side and rear tubes.

### 4) Roll cage mounting to Tube Type Chassis

- a) Vertical roll cage supports to be welded directly to horizontal tube frame structure. When this method is used, steel supports must be installed directly below horizontal frame tube and in-line with each vertical roll cage tube. Steel supports must extend to the next horizontal frame tube directly below. The steel supports must be a minimum of  $\frac{1}{4}$  inch X three (3) inches in dimension. Rear roll cage vertical tubes must be welded directly to a rear structure same as the side frame structure. The rear frame structure must be attached to the vehicle frame structure and must be supported directly below both rear vertical roll cage tubes and the same as side frame structure.
- b) Support webs of 1/4-inch minimum thickness steel and a minimum height of six (6) inches vertical from the base plate must be welded between vertical tubes on both side and rear tubes.

### 5) Roll cage mounting to channel type chassis

- a) Vertical roll cage supports to be welded to a single piece of 1/4-inch minimum thickness steel with a minimum of 2 1/2 inches wide horizontal flange and a three (3) inch wide vertical flange. Angle iron is permissible. Attachment flanges must be secured to vertical side of frame by at least five (5), 5/8-inch, grade #8 or better bolts. Rear roll cage attaching tubes to be welded to a 1/4-inch minimum thickness steel flange made to at least the minimum dimensions of side flanges. The rear-mounting flange to be attached by welding the side mounting flanges or vehicle frame rails. Rear mounting flange must be supported directly below both rear vertical roll cage tubes. Supports to be made from a minimum 1/4-inch steel welded to rear end housing or vehicle frame structure or bolted with a minimum of two (2), 1/2-inch, grade #8 or better bolts.
- b) Support webs of 1/4-inch minimum thickness steel and a minimum height of six (6) inches vertical from base plate must be welded between vertical tubes on both sides and rear tubes.

### 6) Tractors are required to have an SFI spec. 6.2 bell housing or a SFI spec. 4.2 bell housing blanket that meets the following minimum construction specification: You cannot have visible holes in clutch housing to clear bell housing.

- a) 17 inches wide and long enough to wrap around the bell housing with at least a six (6) inch overlap.

- b) Secured with six (6) two (2) inch wide nylon web straps with a steel D-ring on one end and sewn the length of the blanket (except for the overlap area) and to be tied in a saddle cinch.
  - c) Four (4) two (2) inch nylon web retaining straps each at the front and back of the blanket.
  - d) Must be in good condition and be within 5-year certification. Tag must be legible.
- 7) Tractor airbag suspensions allowed, but no on-board compressors or controls of any kind to change the suspension. Only one fill point allowed for suspension.
- 8) Tractors must have either:
- a. Safety tie bars mounted to rear axle housing with at least four (4) axle housing bolts and extending forward of flywheel area and fastened to side of block or main frame with at least two (2) 5/8-inch bolts; OR
  - b. A one (1) piece frame extending from front of tractor to rear axle housing mounting bolts.
- 9) Tractor utilizing on board fire extinguishing systems inside the engine compartment. Not to be attached to the sheet metal.

**NOTE:** Tie bars of frame must be of sufficient strength to support weight of tractor with the bolts used to split the tractor removed. If in question, to be approved by the OTTPA Board.

#### **Chassis/Shielding**

- 1) Must have fenders or shield between driver and rear tires.
- 2) Tractors must have hood and grill in place as intended by manufacturer.
- 3) Sheet metal can be upgraded to present manufacturer upon approval from the OTTPA Board.
- 4) Sheet metal upgrade cannot cross original manufacturer's line. For example, Case IH to IH or Oliver to Minneapolis Moline acceptable. IH to John Deere not acceptable.
- 5) Sheet metal to be stock length and in stock location.
- 6) Tractors must retain stock appearance.
- 7) The distance from the center of the rear axle to the part of the hood that is farthest forward must be the same length of that model of the upgraded sheet metal.
- 8) Maximum of 114 inches' wheelbase unless originally produced with longer wheelbase, in which case stock length must remain. Maximum length of 13 feet from center of rear wheel to forward most portions.
- 9) Rear axles must remain in OEM position.
- 10) Allis Chambers may run Detroit series 40 or IH DT 466
- 11) The following rule will apply to all divisions that use solid driveline shields over 16 inches in length:

Note: this also applies to Mini Rod division and the intermediate shaft on FWD All driveline shield components must be tethered on each end by two opposing restraints, Tethers must attach at 180 degrees of each other and a minimum of 3" and a maximum of 6" from each end of each driveline shield component.

Tether to be constructed of a minimum of 2" wide by 1/8" thick nylon or polyester strap. One end of tether must attach to one side of the chassis then go around the driveline shield then attach to the other side of the chassis. Tether must be attached to chassis by a minimum of one 3/8" grade 5 bolt with a grommet on each side or wrap around the chassis and use a buckle to fasten it to itself.

**Note:** FWD drivelines that use driveshaft hoops must use same tether configuration to be attached to main or common hoop holder between chassis and hoop assembly.

**NOTE:** The criteria used by the board will be the retention of stock appearance. The chassis and frame must remain stock from the rear of the engine block to the rear of the tractor.

#### **Transmission/Clutch/Rear End**

- 1) Only mechanically activated clutches are permitted.
- 2) Neutral safety switches are to be in or on the transmission
- 3) The stock transmission housing or manufacturer's replacement and the stock final drive housing or manufacturer's replacement.
- 4) The clutch housing, transmission case, rear end housing and axle housing must be OEM with no aluminum replacements.
- 5) Any cast chassis must have all OEM bolts in place.
- 6) May cut hole for mounting aftermarket transmission, reverser or drop box.

7) No John Deere 6000 or 7000 ag chassis allowed

NOTE: Planetaries are considered part of the final drive and are not removable.

#### **Fuel & Water**

1) VP Fuel and water only with all vehicles. VP DX fuel allowed. A \$50 fine will be accessed for lack of fuel and water test ports for all classes. Also, for any minor infractions of fuel or water quality. Each vehicle must display 2 VP Racing Fuels decals one on each side.

2) All alcohol tractors should have halon fire systems with at least 3 nozzles under the hood.

#### **Turbo**

1) All classes using a mandatory turbo must run legal turbo for class (example in SF Precision 3 x 3.35 only), the rule applies to all mandatory turbo classes. Competitor and tractor must meet OTTPA safety, fuel and water regulations. If competitor wants to pull in a mandatory turbo class other than theirs, they must run the turbo approved for their mandatory class event if they are jumping up a class due to their class being absent from the event. Also, may not exceed any rule or regulation for that class.

2) Turbocharger engines are required to have one cable that must surround the engine block and head. This cable must be placed between the first and second cylinder through exhaust manifold port area.

- a) Cable must be a minimum of 3/8-inch thickness.
- b) Cable must have a minimum of four (4) clamps at the splice.
- c) Cable must have approximately four (4) inches of slack.
- d) Suggest that cable ends be lapped back around and clamped with an additional clamp to prevent main clamps from coming off.

3) **No titanium wheels in any turbo chargers allowed in any class.**

4) Exhaust turbine outlet, 2 bolts minimum,  $\frac{1}{2}$  inch diameter grade 5 only. Must be installed in a cross pattern as close to the turbine exhaust wheel as possible.

#### **Engine**

1) Engine block must remain in original location as located by the manufacturer.

2) All engines must be secured and held rigid to OEM chassis. Engine cannot move independent of the rear-end/transmission housing.

3) Must use OEM engine block for that matches that OEM chassis.

4) After market blocks allowed with the following exceptions (NOT allowed in LLP class)

- a) Material
  - 1) Stock, cast, steel or aluminum with everything in stock location.
- b) Specifications
  - 1) Stock crank to swing in block.
  - 2) Stock head bolt locations.
  - 3) Stock cam gears to work in stock location.
  - 4) Max. 1 inch over stock deck height for all classes, except SF class (SF class is max, height of  $\frac{5}{8}$ ) from center line of crank to top of block or deck plate.

NOTE: All ether bottles (starting aides) must be placed outside of the engine compartment.

#### **Frame**

1) Allow tractors with cast tub (belly) type frame (i.e. Oliver, Cockshutt, White) to remove complete frame from front of transmission housing. Engine and clutch housing to remain in original location and mounted solid as intended by manufacturer.

## **MODIFIED TRACTORS**

### **Light Limited Modified Tractor (LLM)**

**Unless specifically outlined below in the class specific rules, the Tractor General Rules and the overall General rules outlined above apply.**

#### **Engine Combinations**

- 1) One maximum, 600 cubic in super charged engine.
- 2) One carbureted Allison V12 with large super charger/One fuel injected Allison with small supercharger
- 3) One carbureted Packard V12.
- 4) One V8 Dresserly Engine with twin turbos.
- 5) One Avco Lycoming T53 turbine or one GE T58 turbine. Twin Turbine combo, L-11, T-53 rated at 2200 hp or less is allowed.
- 6) Maximum supercharger size is 14-71. Variable speed supercharger devices prohibited.
- 7) No turbine engine will be operated beyond military temperature and RPM limits.
- 8) Turbine air intake must be screened with metal screen that has openings no larger than 3/16-inch.
- 9) Turbine engines must have a 3/8 steel shroud that surrounds the engine. Shroud must extend a minimum of 5 inches forward and ten (10) inches to the rear of the turbine section. The shroud must incorporate a minimum of 3/8-inch-thick flanges that extend radially inward from the shroud on both ends of the shroud with a maximum of 1 inch of the engine casing. A ½ inch gap between the engine and the ID of the flange must be maintained for air circulation inside the shroud. The flanges may be scalloped out to clear turbines accessories, brackets, etc. And may be either rolled edged of the shroud or steel rigs attached by welding or riveted to the shroud.
- 10) Two independent over speed protection devices are required to power turbine wheel.
- 11) The governor setting must not exceed manufacturer's maximum specs. Over speed shut down consist of speed monitor that activates a normally closed solenoid valve located between the fuel control and fuel manifold. Trip setting to be low enough to prevent over speed in event of driveline failure. No TF-35 engine allowed.
- 12) Turbine engines allowed starter motor onboard or auxiliary power unit to be carried onboard and running during a competitive attempt but must not be hooked into the drive train during competition attempt.
- 13) Naturally aspirated aviation engines, the gearbox output shaft must not exceed one and one-half the speed of the crankshaft. Clutch and bell housing used in this application must be SFI approved. Bell housing must be bolted to a ¼ inch or greater steel plate with a minimum of (12) 3/8-inch bolts (grade#5) evenly spaced around the bell housing.
- 14) The plate must be securely fastened to the frame by (8) 3/8-inch bolts (grade#5) with (4) bolts on each side of the frame.
- 15) **ANY** configuration naturally aspirated engines can be used. The sum of the cubes of all the engines added together cannot exceed 1500 max combined cubic inch.
- 16) Any agricultural engine with a cubic inch of 505 or less on alcohol, or any cubic inch diesel may be used. Turbo charger size is limited to the specifications in Light super stock class.
- 17) Any configuration of forced air induction under 750 cubic inches.
- 18) Any automotive combination of diesel engines under 900ci with one single Borg Werner S480 turbo.
- 19) One GAA Ford engine.

#### **Superchargers/Turbo Chargers**

- 1) All superchargers must be mounted to the intake by use of aluminum studs. STEEL STUDS PROHIBITED!
- 2) Supercharger restraint system is mandatory and shall consist of four separate straps, one on each corner of the supercharger and sandwiched between the charger and injector. Safety straps must be connected to the exhaust flange on the cylinder head.
- 3) Supercharger belt shield must be wider than all components, idler, belt, pulleys, etc. and extend to the bottom of the crankshaft.
- 4) No screw type superchargers allowed.
- 5) No turbine engine is allowed to run a clutch/flywheel assembly or any automatic transmission.
- 6) Turbo chargers are allowed to be run on V8 engines (1) 88mm turbo with a billet wheel or (1) holset turbo up to 4 inches with cast wheel in and out non-staged turbo per bank on (1) V8 automotive engine with a maximum of 600 cubic inches. Iron cast heads only.

#### **Exhaust**

- 1) Exhaust pipes on turbines must extend a minimum of 6 inches above the top of the exhaust opening.

2) Exhaust stack diameter to be no smaller than 1 inch of engine outlet.

## **MODIFIED TRACTORS (MOD)**

**Unless specifically outlined below in the class specific rules, the Tractor General Rules and the overall General rules outlined above apply.**

**All vehicles must be a registered Modified Tractors to compete in this class.**

### **Transmissions/Drivelines**

- 1) All automatic transmissions must have new six (6) strap approved blankets and have reverse lockout.
- 2) All drivelines must be entirely enclosed in 5/16-inch steel or 3/8-inch aluminum and securely fastened to the frame.

### **Chassis/Body**

- 1) Total length of vehicle shall not exceed fourteen feet from center of rear axle with wheelbase at 11-foot 6 inch minimum.
- 2) No engine sheet metal.

### **Wheels/Weights/Tires**

- 1) Tire size shall not exceed 31 inches in width.

### **Engine**

- 1) One (1) marine, or aircraft, or industrial type up to 2500 cubic inches with (12) cylinder limit. Two (2) compression stages maximum. Allow EFI on V-12 Allison and V-12 Packard. Rolls Royce Griffon limited to a maximum overdrive limit on the supercharger to the high-speed ratio of 7.7 to 1. Rolls Royce Griffon's can have multiple turbos or the original supercharger, but not both.
- 2) Two (2) automotive type engines, with maximum 14-71 blower (no screw type), no overdrive limit, hemi type heads allowed. 650 cubic inch limit.
- 3) Three (3) automotive type engines with maximum 8-71 blower, limited to 43% overdrive, no Hemi, Pontiac, Oldsmobile, Big Chief or Big Duke style heads, 650 cubic inch limit.
- 4) Four (4) naturally aspirated automotive type V8 engines, any CID, any two (2) valves per head, carburetors, or fuel injection.
- 5) Turbine engine or combinations of turbine engines are allowed (2) maximum T55 military engines with a rating of 5950 HP. They must be certified and sealed. Any engine or combination of turbine engines with HP rating of 3750 or less are allowed water/methanol injection. Nothing allowed to be sprayed or injected in the airstream of the intake or turbine engines that total more than 3750 horsepower. All turbines to have over-speed safety devices set to a maximum of 110%. Also allowed are a combination consisting of qty 2 turbine engines from the T55 family as long as the combination of actual dyno HP is not more than 5950 total, this is to be set and tamper proof lead sealed on the dyno.
- 6) All boosted automotive type V8 motors limited to a maximum 5" bore spacing.  
OTTPA recognizes the following turbine engines for use in OTTPA competition and their horsepower ratings are as follows:  
(No turbine engines other than those listed may be used.) Modified Engines Lycoming Pratt & Whitney T53L1 = 825 hp  
JFTD12-4 = 3430 hp T53L3 = 920 hp JFTD12-5 = 4050 hp T53L5 = 960 hp JFTD12A = 4050 hp T53L7 = 1100 hp T53L11 = 1100 hp T53L13 = 1400 hp T55L1 = 1600 hp T55L5 = 2200 hp T55L7 = 2650 hp T55L7C = 2850 hp T55L9 = 3750 hp T55L11D = 3750 hp T55L712 = 3750 hp 31
- 7) Any Turbine engine must have a minimum of 3/8 inch steel shielding around the hot section if it is under 1500 horsepower. Any engine over 1500 horsepower will have a 1/2 inch steel shielding.

- 8) Any motor combination not already mentioned in the rule book must be approved by the OTTPA Board.
- 9) Must be a minimum of two (2) supercharged V-8 engines, turbocharged or supercharged industrial engine or turbine or combination of turbine engines of 2850 horsepower to compete at an OTTPA event.
- 10) Two (2) 1710 cid Allison aircraft V12s, with a maximum overdrive limit on the stock Allison supercharger of Ø9.5" to a maximum speed ratio of 8.8:1. No turbochargers.
- 11) One (1) 60-degree Ford Tank V8 with multiple turbos
- 12) One (1) 903 Cummins V8, maximum 650 cid with multiple turbochargers
- 13) One (1) Chrysler Hemi automotive type engine, 550 ci maximum, electronic fuel injection (EFI), multiple turbochargers, intercooled, two (2) compression stage maximum
- 14) Two (2) Big Block Chevy V8 engines, no hemi heads, no more than 1 turbo on each engine, 650 cubic inch maximum per engine.

OTTPA recognizes the following turbine engines for use in OTTPA competition and their horsepower ratings are as follows: (No turbine engines other than those listed may be used.)

<b>Modified Engines</b>	
<b>Lycoming</b>	<b>Pratt &amp; Whitney</b>
T53L1 = 825 hp	JFTD12-4 = 3430 hp
T53L3 = 920 hp	JFTD12-5 = 4050 hp
T53L5 = 960 hp	JFTD12A = 4050 hp
T53L7 = 1100 hp	
T53L11 = 1100 hp	
T53L13 = 1400 hp	
T55L1 = 1600 hp	
T55L5 = 2200 hp	
T55L7 = 2650 hp	
T55L7C = 2850 hp	
T55L9 = 3750 hp	
T55L11D = 3750 hp	
T55L712 = 3750 hp	

## LIGHT LIMITED PRO STOCK TRACTORS (LLP)

Unless specifically outlined below in the class specific rules, the Tractor General Rules and the overall General rules outlined above apply.

- 1) No component chassis.
- 2) All OEM chassis Super Farm rules, including shielding, safety apply to this class.
- 3) VP Fuel and water only with all vehicles. A \$50 fine will be accessed for lack of fuel and water test ports for all classes. Also, for any minor infractions of fuel or water quality. Each vehicle must display 2 VP Racing Fuels decals one on each side.
- 4) Fuel and water sample valves mandatory. \$50.00 fine for lack of sample test ports.
- 5) 24.5 – 32 maximum sized tires. HP pullers tires allowed. Pro Puller Tires are allowed. See General Tractor Rules for more details. Only 24-5-32 tires allowed NO 20-8-30 tires allowed.
- 6) 8,500 lb. maximum weight.
- 7) Engine block and head must be OEM agricultural type for that brand of engine. Port location must be same as stock with manifolds using stock port bolt pattern.
- 8) No engine larger than 466 cubic inches. (+1 percent) de-cubing of larger engines allowed.
- 9) In order to run for points, you are not allowed to have a deck plate; deck plates are allowed if you are not running for points or doing a one-time hook.
- 10) Must use original location for intake with a maximum 4-inch hole. Intake spacer 1.5-inch maximum. IH dozer manifold with dual intake legal with two (2) 3-inch holes and one cross-over pipe, any length.
- 11) Maximum 2 valves per cylinder.
- 12) No inner / after coolers allowed.
- 13) Maximum size injection pump is a 7100 P – pump with maximum size plungers of 13 mm.
- 14) Turbo
  - a. LLP OTTPA/Precision Turbo of 3.0 x 3.35 may be checked for tolerances of a .165 maximum gap.
  - b. Any 3x4 smooth bore turbo, no map width enhancement (MWE) allowed, intake and exhaust wheel must protrude into housing 1/8"
  - c. stock GT-42 turbo allowed.
- 15) Aftermarket intake and headers allowed.
- 16) Bracket pulling after 20 tractors if approved by Promoter.
- 17) No after market blocks allowed.

## SUPER FARM TRACTORS (SF)

Unless specifically outlined below in the class specific rules, the Tractor General Rules and the overall General rules outlined above apply.

### Engines

- 1) No engine larger than 640 CID (plus 1%) with 5/8-inch deck plate.
- 2) Engine head must be OEM agricultural type for that brand engine. Recast heads allowed must be with OEM dimensions. All bolt patterns must stay in stock location.
- 3) No overhead cams allowed.
- 4) May run after market intakes. Must bolt in original port bolt locations. NOTE: A: Alteration for turbo mounting allowed. A spacer no larger than 3 inches allowed between the turbo and exhaust manifold. Turbo blanket allowed.
- 5) OTTPA Super Farm member must run Hart's 3.6 X 4.55 smooth bore Box Turbo with a 132-exhaust housing only. No alteration of any kind allowed. Any questions call Head Tech. A One-time hook fee puller may run no larger than any 3 X 3 turbo or Old Outlaw box turbo allowed with VP fuel and water only.
- 6) No inner/after coolers allowed.
- 7) Any p series pump with any plunger size. No Sigma's.

8) Aftermarket headers are allowed.

**Competition:**

- 1) Super Farm tractors will compete at 9200 pounds.
- 2) No component tractors allowed in the Super Farm Class.
- 3) All Super Farm Tractors must comply with all General Tractor Rules on safety and dimensions rules.
- 4) The Super Farm Class must run approved VP Fuel and Water only no other additives of any kind allowed.
- 5) Fuel and Water sample valves mandatory for checking. Sample valve must be located as close to fuel pump as possible on pressure side of fuel pump supply line not on return side of fuel pump. Water sample valve must be located as close to the water pump as possible in a safe and accessible manner for testing. There will be a \$50 fine for lack of fuel and water testing ports.
- 6) Tire size allowed is 24.5 X 32 maximum. See General Tractor Rules for dimensions.
- 7) All rules will to be reviewed at fall banquet.

**LIMITED PRO STOCK TRACTORS (LPS)**

**Unless specifically outlined below in the class specific rules, the Tractor General Rules and the overall General rules outlined above apply.**

- 1) No component chassis.
- 2) 24.5 – 32 maximum sized tires. HP pullers tires allowed. Pro Puller Tires are allowed. See general rules for specific information.
- 3) 9,500 lbs. maximum weight.
- 4) No engine larger than 640 cubic inches (+1 percent)
- 5) Maximum 4.875 bore. No engine with a bore center greater than 5.375 inches.
- 6) Deck plate allowed up to 1 inch thick.
- 7) Engine block-must be OEM size and spec agricultural type for that brand of engine.
- 8) Recast or billet heads allowed but port location must be same as stock with manifolds and can be no more than 1 inch taller than stock height and must be stock width and length. All ports must be in stock location and the valves have to come in at the stock angle. The stock angle is 90 degrees.
- 9) Aftermarket manifolds allowed and must bolt in original port bolt locations.
- 10) No overhead cams.
- 11) Maximum 2 valves per cylinder.
- 12) No inner / after coolers allowed.
- 13) Maximum size injection pump is a 7100 P – pump with maximum size plungers of 16 mm. No 8300 P-pumps. May run 15 ml cast iron housing Sigma's "MUST BE SENT TO DIESEL PERFORMANCE ENGINE (DPE) FOR INSPECTION AND SEALED".
- 14) VP Fuel and water only with all vehicles. A \$50 fine will be accessed for lack of fuel and water test ports for all classes. Also, for any minor infractions of fuel or water quality. Each vehicle must display 2 VP Racing Fuels decals one on each side.
- 15) Fuel and water sample valves mandatory. \$50.00 fine for lack of sample test ports.
- 16) All OEM chassis Super Farm rules, including shielding, safety apply to this class.
- 17) Allow any 4.1 smooth bore turbo with maximum 4.5 exhaust wheel, intake and exhaust wheel must protrude 1/8" into housing, no map width enhancement (MWE) allowed, exhaust must exit through max 4.5" bore in housing.
- 18) Recast blocks allowed but must be OEM size and spec, no billet.
- 19) Big blocks allowed.

## PRO STOCK TRACTORS (PS)

**Unless specifically outlined below in the class specific rules, the Tractor General Rules and the overall General rules outlined above apply.**

- 1) Components allowed in Pro Stock (See Super Stock for specifications)

### **Engines**

- 1) No engine larger than 680 CID (plus 1%).
- 2) Tractors are limited to one pressure stage and allowed one (1) air compressing device.
- 3) Tractors may use a steel plate, maximum of one (1) inch thick, between the block and the head.
- 4) Tractors are limited to two (2) valves per cylinder.
- 5) No intercoolers allowed.
- 6) **ONLY** turbo allowed is the Wimer mandated Outlaw Pro Stock turbo with NO modifications to turbo. If turbo's are sent back to Wimer and modifications have been made. It will be a one year plus 1 day suspension.

### **Fuel & Water**

- 1) Only OTTPA approved fuel. May have only one (1) fuel injection pump.
- 2) VP Fuel and Water only with all vehicles. VP DX Fuel is allowed. A \$50 fine will be accessed for lack of fuel and water test ports for all classes. Also, for any minor infractions of fuel or water quality. Each vehicle must display 2 VP Racing Fuels decals one on each side.

### **Safety**

- 1) Metal detection shield between driver and engine from top of hood to top of torque tube or transmission housing or clutch housing from side shield to side shield. This also serves as a flash fire shield.
- 2) Safety blankets must be on the inside of the tie bar and the tie bar must be fastened forward of the rear of the engine block.
- 3) Tractors that require tools for the removal of side shield must be equipped with onboard fire control system. On board system nozzles must be in engine compartment.

### **Tires**

- 1) Tires – 24.5 – 32 maximum size. See Tractor General rules.

### **Weights**

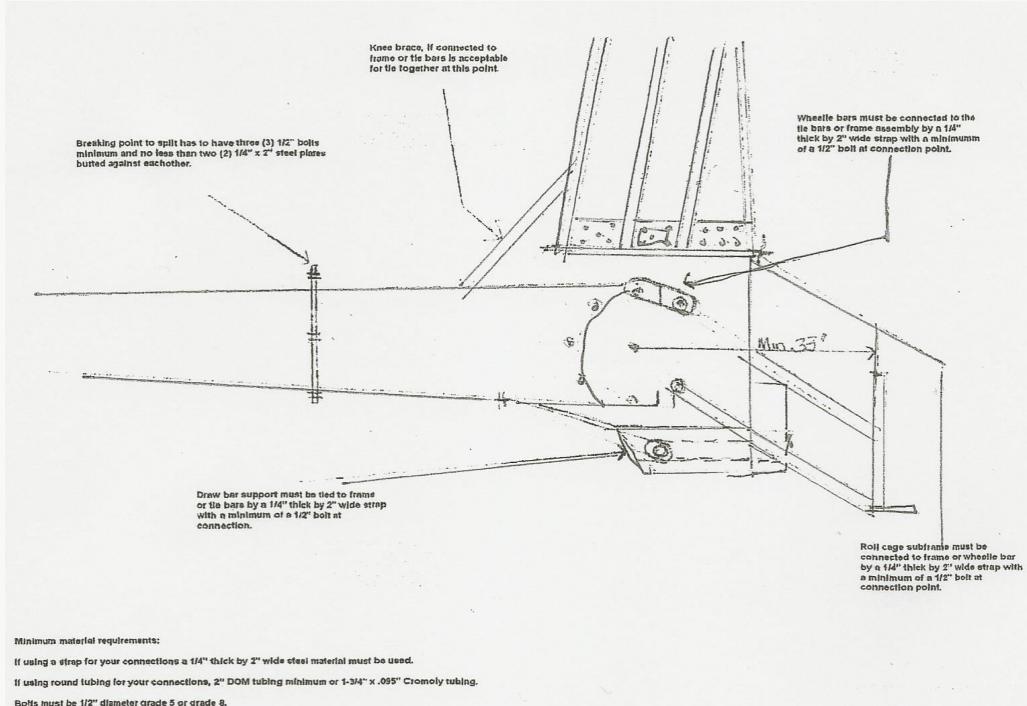
- 1) Tractors will compete at 10,000 pounds.

## SUPER STOCK TRACTORS LIGHT (LSS)

**Unless specifically outlined below in the class specific rules, the Tractor General, Safety Rules and the overall General rules outlined above apply.**

Rules specific to Light Super Stock Tractors (1-18 below)

- Light super stock class all tractors must have one-piece frames that attaches the roll cage, wheelie bars, hitch and frame together see diagram.



- Light Super Stock class Sigma pump allowed.
- Light Super Stock Tractors Are not allowed to run-a 44 Mag.
  - Light super stock tractors are allowed to run any coil type ignition that is not computer controlled
- Light Super Stock Weights by Make outlined below: 6000 alcohols and 6300 for diesel
- No component tractors in the Light Super Stock.
- All Light Super Stock tractors must have OEM cast engine, clutch/transmission housing, and rear end housing; axle housings bolted together. No aluminum replacements.
- All clutch, transmission, or rear end housings must be stock height and length and width.
- No sub-frames of different materials allowed in replacement of cast.
- No additional holes in bellhousing allowed.
- If cast is broke, it must be replaced with no holes in new housing.
- May run SFI 47.2 two bar roll cage.
- No 6000 or 7000 series chassis allowed, may run 6000 series sheet metal.
- Alcohol 510 to 640 cubic inch motors are limited to one (1) 4.1 max. turbocharger.
- Diesel 510 to 640 cubic inch motors are limited to one (1) max. 5 inch turbocharger.
- 505 cubic inch motors and lower may run up to 4 turbos 3 stage max, diesel or alcohol
- Any 30.5-inch tire allowed.
- Allis Chalmers may run Detroit series 40 or IH DT 466
- Only 360 cubic inch or less engines running a twin turbo or single turbo set up may run intercoolers. Water and/or ice allowed.

## Engines

- Only engine considered legal to be used in super stock division must be available in two-wheel drive farm tractors.
- OEM V8 motors allowed. White/Cat, Massey/Perkins, IH/DT550
- Maximum distance of one (1) inch deck plate between bottom of cylinder head and top of engine block. A maximum allowance of .130 total gaskets with a maximum of 504 cubic inch total.
- External hold-down devices recommended for holding head to block. This device connects top of bottom of block and must remain behind side shields. This device does not replace the safety cable, which must remain in place.

- 6) Any alterations to the chassis shell must have the written approval of the OTTPA Board before the tractor in question will be considered a legal entry.
- 7) The engine block cannot be modified externally from OEM configuration, except for normal repair or for mounting of fuel injection pumps. 8) No alcohol, alcohol-based substances, other additives and or formulas containing alcohol of any kind or manner may be used or allowed in water injection. Pro Stock Tractor's to use only OTTPA approved water.
- 9) Recast aluminum and billet block are allowed as long as they are OEM size and spec.
- 10) All tube ladder-type frames must be covered on outside with steel or aluminum 0.060 thick and run in the same plain as the crankshaft.
- 11) Appearance to remain stock of given brand and model.
- 12) 4) Tractor inner side shields. All inline engines are required to have an additional side shield consisting of .125 (1/8 inch) steel or titanium or .250 (1/4 inch) thick aluminum inside of the current .060-inch steel or aluminum side shields with a minimum of  $\frac{1}{8}$  inch air gap. The shield is independent of the current side shield and must be attached to the chassis (frame) with a minimum of 5/16 fastener at both ends and the center on the bottom or suspended a minimum of 3 inches below the top of the frame rail and to the engine block at both ends bolted solid to the bolt if suspended or with a length of 5/16 chain if fastened at bottom at deck height on the top. This shield must extend from the bottom of the head to the centerline of the crankshaft and extend the full length of the block on each side of the engine.
- 13) All LLSS must follow LLSS engine and rear end combination rules of your association.

<b>Light Super Stock</b>		
<b>Acceptable Rear-End/Engine Combinations</b>		
<b>Make</b>	<b>Rear-End</b>	<b>Engine</b>
John Deere	3010, 2840, 4040, 4050*	329, 359, 414
John Deere	4010, 4020, 4040, 4050, 4055	404, 466
International	460, 560, 656, 666, 706*	274, 360
International	706, 806, 966, 1066, 1466	414, 436, 466
Case	730, 830*	267 (4 cyl)
Case	830, 930, 1030, 1070	401, 451, 504
Allis	180, 190, 7000*	301, 5.9 Cummins
Allis	D21, 220	426, 466 Detroit
Ford	3000, 4000, 5000*, 7000*	4 cyl.
Ford	5000, 7000, 8000, 7910, 8210	401, 458, 478
Cockshut	440, 550	4 cyl, 340
Oliver, White	1650, 1750, 1800*, 1850*, 1950*	283, 310 walkesha
	2-105, 2-110, 2-280	354 perkins
	W-100, W-120, W-140(spirit of cockshut)	359 cummins
Oliver, White, MM	160, 170, 185, 195, 135, 155, 1800,	478 hercules
	1850, 1950, 2050, 2150, 2255,	504 cummins
	1355, 2-150, G-1000	585 moline

**SUPER STOCK TRACTORS**  
**DIESEL (DSS)**

**Unless specifically outlined below in the class specific rules, the Tractor General, Safety Rules and the overall General rules outlined above apply.**

- 1) Diesel Super Stock tractors may run one (1) inch deck plate or one 5/8-inch deck plate with two .125 gaskets. No steel blocks.
- 2) External hold-down devices recommended for holding head to block. This device connects top of bottom of block and must remain behind side shields. This device does not replace the safety cable, which must remain in place.
- 3) OTTPA will allow component tractors in the Heavy 8200 Super Stock and Pro Stock Tractor competition under the following criteria:
  - a) Must install an aftermarket frame with an SFI-6.2 or 6.3 bell housing to replace the original clutch housing.
  - b) Must also install an aftermarket transmission and rear end/final drive housing. (If larger than 11-inch clutch is used, refer to industrial marine clutch rules listed in the General Rules section.) No cast iron Ag-type transmission or rear end components allowed.
- 4) a. 540 cube motors with up to 4 turbos 3 stage allowed  
b. over 540 to 640 max. allowed 2 turbos total.
- 5) Diesel Super Stock class allowed to run Sigma pumps. Any plunger sizes.
- 6) OEM heads or two (2) valve aftermarket heads allowed
- 7) No operating inner coolers allowed.
- 8) No overhead cams or hemi-style heads allowed in any Super Stock class.
- 9) No electronic fuel injection or electric engine control.
- 10) Component chassis allowed – 8200 lbs.
- 11) OEM cast chassis – 8500 lbs.
- 12) The engine block cannot be modified externally from OEM configuration, except for normal repair or for mounting of fuel injection pumps.
- 13) Engine location on component Super Stock Tractors: centerline of the crankshaft may not be below the centerline of rear axle and must be parallel within two (2) degrees in relationship to the ground. Two (2) degrees equals 7/16 inch per foot. This equals approximately four (4) inches of fall from center of rear axle to the 114-inch wheelbase point. This is to be measured with tire, hitch and weight in ready to pull.
- 14) All engines in component Super Stock tractors to be mounted no farther forward than 60 inches from the centerline of the rear axle to rear of engine block.
- 15) Crank shaft centerline to be between top and bottom rail of frame. Bottom of frame rail may be no more than six (6) inches below centerline of crankshaft from rear of engine block forward.
- 16) Only OTTPA approved fuel and water allowed in super stock with test ports for both water and fuel sampling required
- 21) No alcohol, alcohol-based substances, other additives and or formulas containing alcohol of any kind or manner may be used or allowed in water injection. Pro Stock Tractor's to use only OTTPA approved water.
- 22) Recast blocks allowed.
- 23) 4) Tractor inner side shields. All inline engines are required to have an additional side shield consisting of .125 (1/8 inch) steel or titanium or .250 (1/4 inch) thick aluminum inside of the current .060-inch steel or aluminum side shields with a minimum of ½ inch air gap. The shield is independent of the current side shield and must be attached to the chassis (frame) with a minimum of 5/16 fastener at both ends and the center on the bottom or suspended a minimum of 3 inches below the top of the frame rail and to the engine block at both ends bolted solid to the bolt if suspended or with a length of 5/16 chain if fastened at bottom at deck height on the top. This shield must extend from the bottom of the head to the centerline of the crankshaft and extend the full length of the block on each side of the engine.
- 24) All air and fuel kill switches must be tied together by one cable to the sled.
- 25) Allow single charger outlaw tractor to pull at 9000# on 24-5-32 tires.
- 26) Allow any 680, any Turbo tractor to pull at 8200# on 24-5-32 tires.

**All other OTTPA tractor, chassis, safety, and clutch rules apply to this class.**

**SUPER STOCK TRACTORS  
UNLIMITED (USS)**

**Unless specifically outlined below in the class specific rules, the Tractor General, Safety Rules and the overall General rules outlined above apply.**

- 1) Unlimited Light Super Stock class limited to 505 CID. Only two (2) valves per cylinder must be parallel with each other and parallel within 15 degrees of cylinder wall. OEM canted valve heads allowed.
- 2) No V8 motors or billet blocks allowed in Unlimited Super Stock class.
- 3) 540 Diesel allowed.
- 4) Component chassis allowed with proper sfi rating
- 5) In the Unlimited Light Super Stock class, the maximum cubic inches in an alcohol motor is 505 + or -1%
- 6) 30.5 x 32 tires max
- 7) Weight 6200 lbs.
- 8) All tube ladder-type frames must be covered on outside with steel or aluminum 0.060 thick and run in the same plain as the crankshaft.
- 9) Appearance to remain stock of given brand and model.
- 10) Driveline shielding same as modified tractor rules.
- 11) Tractor inner side shields. All inline engines are required to have an additional side shield consisting of .125 (1/8 inch) steel or titanium or .250 (1/4 inch) thick aluminum inside of the current .060-inch steel or aluminum side shields with a minimum of  $\frac{1}{2}$  inch air gap. The shield is independent of the current side shield and must be attached to the chassis (frame) with a minimum of 5/16 fastener at both ends and the center on the bottom or suspended a minimum of 3 inches below the top of the frame rail and to the engine block at both ends bolted solid to the bolt if suspended or with a length of 5/16 chain if fastened at bottom at deck height on the top. This shield must extend from the bottom of the head to the centerline of the crankshaft and extend the full length of the block on each side of the engine.
- 12) Any stock AG block in a component chassis, the sheet metal does not need to match the block.
- 13) All component tractors can run a maximum of 114-inch wheelbase, with a maximum overall of 13 feet from center of rear axle to forward most point.
- 14) The engine block cannot be modified externally from OEM configuration, except for normal repair or for mounting of fuel injection pumps.
- 15) Engine location on component Super Stock Tractors: centerline of the crankshaft may not be below the centerline of rear axle and must be parallel within two (2) degrees in relationship to the ground. Two (2) degrees equals 7/16 inch per foot. This equals approximately four (4) inches of fall from center of rear axle to the 114-inch wheelbase point. This is to be measured with tire, hitch and weight in ready to pull.
- 16) All engines in component Super Stock tractors to be mounted no farther forward than 60 inches from the centerline of the rear axle to rear of engine block.
- 17) Crank shaft centerline to be between top and bottom rail of frame. Bottom of frame rail may be no more than six (6) inches below centerline of crankshaft from rear of engine block forward.
- 18) Only OTTPA approved fuel and water allowed in super stock with test ports for both water and fuel sampling required
- 19) No alcohol, alcohol-based substances, other additives and or formulas containing alcohol of any kind or manner may be used or allowed in water injection.
- 20) Recast block are allowed as long as they are OEM size and spec. Aluminum blocks allowed with everything in Stock position.
- 21) No computer operated ignition systems allowed.

**All other OTTPA tractor, chassis, safety, and clutch rules apply to this class.**

## 540 Limited Pro Stock Tractors

Unless specifically outlined below in the class specific rules, the Tractor General, Safety Rules and the overall General rules outlined above apply.

- 1) OEM cast chassis only with all safety equipment.
- 2) 540 max cubic inches
- 3) Any 7100 series p pump
- 4) Diesel fuel only
- 5) Any turbo allowed, with 4.5" max exhaust wheel, exhaust wheel must protrude 1/8" into housing, all exhaust to exit through max 4.5" bore in housing.
- 6) 8500 lbs.
- 7) 24.5x32 tires only
- 8) Outlaw VP fuel and water must be run.
- 9) Aftermarket heads allowed must be OEM size length, ports in OEM location, and accept manifolds in stock location, no more than 1" taller than stock.
- 10) Recast blocks allowed, must be OEM size and spec.
- 11) 1" deck plate allowed
- 12) No cooling devices besides water injection

All other OTTPA tractor, chassis, safety, and clutch rules apply to this class.

## 3200 Super Field Tractors

Unless specifically outlined below in the class specific rules, the Tractor General, Safety Rules and the overall General rules outlined above apply

### 3200 Super Field Tractor Rules

#### Maximum 3200RPM

- 1) Max OEM Cubic inch 466@3200RPM
  - a.466-505 cubic inch @3000RPM (i.e.-Case 504)
- 2) 2. Max Tire Size 20.8.38 cut tires allowed
  - a. max circumference 220"
- 3) 8200 lbs.
- 4) OEM head to match model or series of engine.

- 5) OEM intake and exhaust manifolds (spacers allowed, max 1.5")
- 6) No water injection or intercoolers allowed.
- 7) Any MM A-pump or Max 13mm p-pump allowed.
- 8) SXE362 Borgwarner turbocharger allowed in addition to the current 3lm466 turbocharger.
  - a. Box turbo only, provided by FVP.
  - b. No enhancements allowed to MAP groove, wheels, internal housings, or center section of turbo.
  - c. Effective 2021 thru 2022
  - d. Must be sealed within first two pulls.
  - e. No internal alterations of any kind, wheels, shafts, map grooves or housings
- 9) All tractors must be equipped with female 110 Volt receptacle at rear of vehicle connected to DATA Log rpm sensor.
  - a) Plug in must be within 12" of kill switch for easy access.
- 10) Ruling for over RPM limit
  - b) First offense – Disqualification will receive last place points and no money for that hook.
  - c) Second offense - Banned for 1 year 10 days.
- 11) Fuel: VP DX racing fuel only
  - a) must have test port in fuel system for samples.
- 12) Tractors to be equipped with steel flywheel, steel clutch components.
  - a) 4.2 Clutch Blanket
- 13) All tractors must comply with general safety rules.

**All other OTTPA tractor, chassis, safety, and clutch rules apply to this class.**

#### **3500 PRO FIELD TRACTORS**

##### **3500 Pro Field**

**Unless specifically outlined below in the class specific rules, the Tractor General, Safety Rules and the overall General rules outlined above apply.**

- 1) Engine
  - a) Max cubic inch 470. OEM head, OEM block and OEM exhaust and intake manifold only. No intercoolers of any kind; Water injection allowed, Deck plate allowed.
- 2) Tires: 20.8.38 only. Any cut.
- 3) Fuel pump only p3000 or p7100 with 13mm max plunger size.

4) Turbo: The only turbo allowed is a stock out of box GT42 3X3. No internal alterations allowed. No billet wheels. Exhaust mounting pattern must not exceed 2.75"X3.5".

5) RPM: 3500 max. No percentage over tolerance. 3501 and up will be a DQ. Tractor must be equipped with ISSPRO 019R8906 magnetic pickup attached to front of engine to measure RPM. Wiring from pickup to rear of tractor must be 14 - 16 gauge wiring with a 110v 3 prong female plug attached to the end. The two wires from pickup need to be attached to the two main prongs on plug. Female plug to be mounted at rear of vehicle in plain sight and must be able to be utilized easily with no interference from weights. No splices or in-line resistors allowed.

**All other OTTPA tractor, chassis, safety, and clutch rules apply to this class.**

### **Blown Mini Mod Tractors**

#### **Blown Mini Modified (Minis)**

**Unless specifically outlined below in the class specific rules, the Tractor General, Safety Rules and the overall General rules outlined above apply.**

#### **Open Mini Rod (2050 lb.)**

1) Limitations

- a) Modified Minis are limited to a maximum of 575 cu. in. blown engine or 650 cu. in. naturally aspirated one gas turbine with an 1800 hp limit for all National levels of pulling.
- b) 10-71 and larger superchargers limited to maximum 45% overdrive. 14-71 supercharger is the maximum allowed.
- c) 8-71 and smaller superchargers limited to maximum 65% overdrive.
- d) Turbochargers allowed only single staged in the division and must therefore follow the safety rules that apply to all turbocharged engines.

2) All engines are limited to (2) valves per cylinder for all National levels of pulling.

*Exception: Vehicle allowed to run four-valve cylinder heads if small block Chevrolet engines with a maximum of 400 cu. in. are used.*

- 3) Engines are limited to (1) spark plug per cylinder on Regional National level. Engines on Grand and Super National level may run more than (1) spark plug per cylinder.
- 4) Modified Minis must meet General tractor shielding and safety criteria and driveline shielding.

a) Driveline Shielding

- i. All drive train, excluding additional manual transmissions, must be enclosed in 5/16-inch minimum steel or 3/8-inch aluminum, round, inside diameter not to exceed 2" more than the outside diameter of the largest universal joint, fastened every 6 inches or closer, with 3/8 inch or larger bolts, Grade #5, or butt and seam welded, and securely mounted to vehicle's frame.  
Applies to all vehicles with mounted to vehicle's frame. Applies to all vehicles with exposed driveshaft. No more than ¼ inch of end of driveline shall be visible with driveline shielding in place.

Note: If U joints are used in any driveshaft application, the shielding must be 5/16-inch steel or 3/8-inch aluminum with 1/8-inch steel insert in aluminum. The insert must be a minimum of 6 inches wide.

ii. All Modified Mini tractor engine/automatic transmission combinations must have:

1. Two front engine mounts, 2 rear engine mounts, and a support saddle for rear of transmission, with  $\frac{1}{2}$  inch maximum clearance; or
2. Two front engine mounts, support saddle at rear of engine, with  $\frac{1}{2}$  inch clearance, and a mount at rear of transmission.

Note: This is to prevent engine or transmission from dropping if breakage occurs.

Note: Only 4 bolts for bell housing to trans/gearbox mounting are required as opposed to 5 for mini rod use.

5) No portion of tractor shall exceed 8 feet forward of the center of the rear wheel.

6) Tread width (footprint) not to exceed 6 feet in width.

7) Drawbars

- a) Drawbar and hitching device to be one-piece construction, with a minimum of 1-inch solid steel material.
- b) No hollow tubing is permitted.
- c) Front part of drawbar is to have a minimum of  $\frac{1}{2}$  inch cross sectional thickness to remain on the front side of hole where drilled.
- d) Minimum 5/8-inch grade 8 pin.
- e) Drawbar height adjuster or hold up / down device to be no more than 5 inches from hook point. There must be a minimum of  $\frac{1}{2}$  metal remaining where the hole is drilled. Hose clamps may not be used for any drawbar related devices.
- f) The drawbar receiver or the material where the front of the drawbar is attached must have a minimum of  $\frac{1}{4}$  inch thick metal on each side of a horizontal pin drawbar.
- g) Point of Hook.
  - i. The point of hook is to have a minimum of a 2-inch round hole, maximum  $2\frac{1}{4}$  inch hole.
  - ii. The thickness of material around the hole must be a minimum  $\frac{3}{4}$  inch thick.
  - iii. Point of hook to be no more than  $\frac{3}{4}$  inch cross sectional thickness.

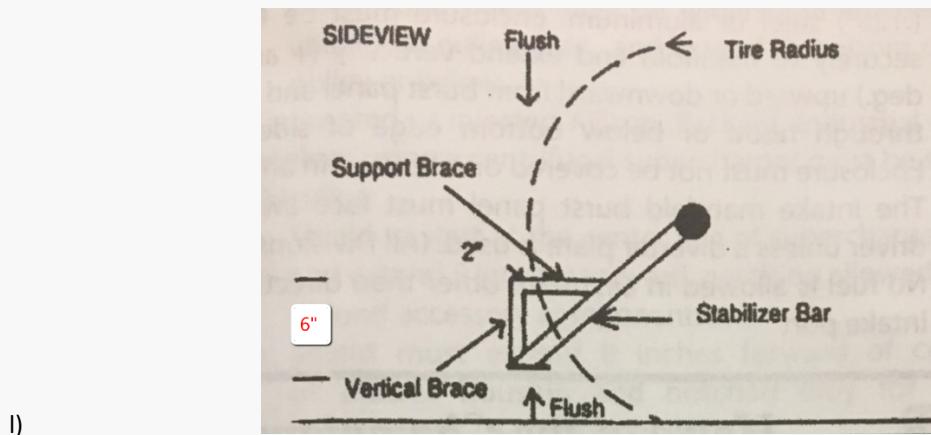
8) Tires

- a) Maximum tire size is 18.4 x 16.1 with a maximum of 143-inch circumference when mounted on an 18-inch-wide rim and inflated to 10 psi. The ground patch is not to exceed 19 inches on original tread.
- b) No tire repairs (boots, section repair, vulcanized spots, etc.)

9) Skid plate and Stabilizer bars

- a) Stabilizer bars are required.

- b) This device is to have a skid plate.
- c) Skid pads to be at least 4 inches square at ground contact point.
- d) Skid pads to be a minimum of one-half the tire diameter when measured horizontally from rear axle centerline to rear of pad.
- e) Pad to be a maximum of 6 inches above the ground.
- f) There must be one skid pad or wheel on each side of the tractor.
- g) The combination must be strong enough to support the weight of the tractor.
- h) In addition to the stabilizer bars, there must be a brace that extends vertically 6 inches from the rear most tip of the skid pads.
- i) There must be a support brace extending inward to frame, axle, or top of stabilizer bar arms.
- j) Vertical brace should extend rearward a minimum of 2 inches from radius of rear tire.
- k) Material used to build vertical brace and support brace must be the same size and strength as the material used to build stabilizer bar.



10. Mini Rod tractors must meet general tractor shielding, safety criteria and driveline shielding, with the following addition for vehicles with 8-71 or larger supercharger and/or planetary rear end.

- a) All mini rods must shield the transmission with a minimum of 0.125 steel or titanium. Shield must cover the full width of the transmission (minus the reverser) top and both sides, while open at the bottom in a "U" shaped over the transmission. Shield not to exceed one-inch air gap between shield and transmission. Shield must be attached at the top forward to the engine plate or engine and at the bottom to each side of the chassis. **OR** be allowed an SFI 4.1 transmission blanket attached in the same fashion.
- b) All mini rods must have a driveline tether to be center of driveline length. Tether must be constructed of a minimum of 2" wide 3/32" thick nylon strap. Tether must attach to one side of the frame then to the driveline shield then on to the other side of the frame by a minimum of one 3/8" grade five bolt at all three points of attachment. Strap must have metal grommet for each bolt to pass through.

**All other OTTPA tractor, chassis, safety, and clutch rules apply to this class.**