

# **WISCONSIN GARDEN TRACTOR PULLERS, INC.**

**2021**

## **RULES AND REGULATIONS**

<b>President:</b>	<b>Jim Hull</b>	<b>920-539-0055</b>
<b>Vice Pres:</b>	<b>Travis Christoffersen</b>	<b>920-960-8835</b>
<b>Treasurer:</b>	<b>Brenda Vis</b>	<b>920-296-9602</b>
<b>Secretary:</b>	<b>Corrine Chalker</b>	<b>920-904-1040</b>

### **Board of Directors:**

<b>Kevin Schell</b>	<b>608-381-5051</b>
<b>Marcus Cox</b>	<b>920-296-3299</b>
<b>Gregg Gaedtke</b>	<b>920-323-2231</b>
<b>Dave Petersohn</b>	<b>920-973-1458</b>

### **Event Coordinators:**

<b>Jeff Patzlaff</b>	<b>920-266-6111</b>
<b>Lowell Vis</b>	<b>920-296-3366</b>
	<b>or 920-296-9602</b>
<b>Jim and Donna Hull</b>	<b>920-539-0055</b>

**Visit us at:      [www.wgtpinc.org](http://www.wgtpinc.org)**

**For Membership information call 920-296-9602.**

WISCONSIN GARDEN TRACTOR PULLERS, INC.  
RULES AND REGULATIONS

The 2021 W.G.T.P. Inc. rules are designed to provide for the orderly conduct of the motorsport of garden tractor pulling events and to reduce the risk of injury to both the participants and spectators during such events. It is ultimately the obligation of each participant to ensure that his/her conduct and equipment comply with all applicable W.G.T.P. Inc. rules and regulations, as they may be amended from time to time. No express or implied warranty of safety shall result from the publication or compliance with, these rules. These are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to pullers, spectators, or others.

## WEIGHT CLASSES:

1000# STOCK CHILD	1050# HEAVY PRO MOD	1100# OUTLAW
1050# STOCK ADULT	1050# PRO STOCK	1400# UNLIMITED OUTLAW
1050# STK TWIN 21-25HP	1050# OPEN SUPER STOCK	1450# HEAVY UNLIMITED OUTLAW
1050# 25HP IMPROVED	1050# LIGHT SUPER MOD	PST – OPTION CLASS (NQS Rules)
1000# LIGHT PRO MOD	1300# HEAVY SUPER MOD	1050# 12 HP SA – OPTION CLASS

## STOCK (CHILD/ADULT)

- Motor Limitations:
  - A stock garden tractor type engine, with working governor. Maximum no-load RPM's: 10 Hp. and under - **4200** RPM, under 16 Hp. - **4000** RPM, 16 Hp. – **3700** RPM, over 16 Hp - **3300** RPM. Diesel engines must run the lesser of factory RPM or as listed. W.G.T.P INC. Board of Directors retains the right to review and update RPM limitations in each pulling season. To be checked by the Tech. Inspector with the club tachometer.  
Straight pipes are allowed, but must point straight up. All stock tractors must have stock shielding or better.
  - Maximum engine size is 20 Hp. Engine must be completely stock except for the following modifications:
    - \* A normal factory rebuild, consisting of ground valves, cut seats, and bore engines to maximum (.030) oversize and cut crank for undersize rod is allowed. Maximum .025" of piston pop-out above cylinder bore is allowed.
    - \* Diesel or liquid cooled engines will be permitted.
    - \* Aftermarket parts allowed but must maintain stock specifications per model & size engine.
  - Tractor must have air cleaner, no velocity stack, and no radius inlet.
  - "Stock Adult" or "Stock Child" classes are limited to Single cyl up to 18HP or Twin cyl up to **(include)** 20HP.
- Maximum drawbar height is 13", minimum hole for clevis is 5/8". WGTP Board retains the right to amend this rule after 3 pulls in the 2021 season.
- Maximum tire width 26 X 12 X 12 or 15" rim diam - 10.5 max width, 16" rim diam – 9.9" max width, 24" rim diam - 8.5" max are allowed  
Production pulling tires (max size 26 X 12 X 12) allowed – the tractor will be limited to a drawbar height 1" lower than the requirement stated for that engine size in Rule #2. WGTP Board retains the right to amend this rule.
- Frame must be OEM specified stock but may be moved to a maximum wheel base length of 56"** (See General Rule #26)
- Must retain all OEM shielding or better. See General Rules.
- Engines must run on gasoline or diesel only.
- Deadman's throttle and engine kill switch must be on all tractors that run more than once per pulling season. Clutch switches are required on all electric start tractors.
- Wheelie bars are mandatory and seats with a minimum 3" backrest are mandatory.
- Local pullers will be given one pull to meet the rules. Exceptions for stock tractors that do not meet rules will be decided by the WGTP Board.
- Any stock tractor may run any other class during the course of a season. They must run by stock class rules, and after that they must meet all rules for the class(es)they are running.
- All drivers must wear a helmet, long pants, and long sleeved shirt. Nylon pants, shirts, or jackets are not allowed.
- Drivers must be 5 years of age to run in the Stock class and must demonstrate the ability to safely operate the tractor **(Including engaging and disengaging the clutch)** to a board member. Minors must have parent or guardian written permission.
- The Stock class is considered one class. The owner must decide if the tractor will be registered under Child or Adult. The tractor cannot be entered in both. A tractor registered under Adult may have a child operator but will compete as an Adult. No Adult may register as a child. Points and prizes will be awarded separately by age group: Children ages 5 to 12 (as of Jan. 1st) and Adults age 13 and up.
- All rules under section: General rules, Track rules, and Teardown and Penalties will apply to the Stock class.

## STOCK (21-25HP TWIN)

- All Rules listed above for Stock Classes will apply to this class except for the following:
  - Maximum 25HP single engine.
  - Max RPM 4000
  - Must use only OEM MANUFACTURED PARTS SPECIFIC TO THE MODEL & SIZE ENGINE.
  - All persons 12 years and older may pull in the Stock (21-25HP) class. Minors must have parent or guardian written permission. Drivers must demonstrate their ability to safely operate a tractor to a board member.

## 25HP IMPROVED

1. Maximum 25HP, **Single or Twin Cyl**, No multi-engines allowed.
2. Max RPM 4250 (WGTP Board retains the right to review/revise the rules for Single Cyl engines during the 2021 season.)
3. Factory stock, commercially available garden tractor with cast block engine. Engine, chassis, and sheet metal must maintain stock appearance.
4. Frame can be modified for engine swap. (See General Rule #26)
5. Must use only OEM AVAILABLE UNALTERED PARTS for engine manufacturer.
6. Maximum bore size is .030 over manufacturer's standard specifications.
7. No welding or modifying of block or cylinder head. Cylinder head must maintain stock combustion chamber lip and head gasket. (Weld for repair may be done with WGTP Board approval.)
8. No fabricated manifolds, carburetor stand offs, velocity stacks, or spacers allowed.
9. Carburetor must be stock, unaltered and unpolished. Choke butterfly and shaft can be removed. Air restricting venture must not exceed stock size for model, horsepower, and configuration. No gas fuel injection.
10. Billet steel or aluminum flywheel are allowed. No welding or machining of cast flywheels.
11. Gasoline only.
12. Modifications to clutch, drive line, and transaxle assembly are allowed.
13. Deadman's throttle is required.
14. Maximum tire size is 26x12x12. Pro Pulling tires are allowed.
15. Maximum drawbar height is 13 inches.
16. All rules under section: General rules, Track rules, and Teardown and Penalties will apply to this class.
17. All persons 12 years and older may pull in the Improved Twin class. Minors must have parent or guardian written permission. Drivers must demonstrate their ability to safely operate a tractor to a board member.

## 12HP Stock Altered – (Option Class Rules to Consider)

1. Single cylinder, flat head, four stroke, must maintain factory deck height. Stock crank, cam, valve and valve locations.
2. May have any head.
3. Gas or Alcohol allowed.
4. Engines may be bored .030 overstock.
5. Stock Stroke, Cam: .330" of lift
6. Must have steel flywheel
7. Stock appearing carburetor (1.200 maximum). Maximum one inch carburetor standoff or ram tube
8. Stock fin block. Kohler block must maintain a cast iron intake runner
9. No external modification to block, must maintain factory appearance.
10. All heads must be strapped with a permanently mounted metal bar.
11. Shielding: 1/8" steel 1/4" aluminum. Shielding will run from the bottom of the cylinder to the bottom of the crankcase on the front and rear on cross mounted motors. Shields must be bolted to the frame.
12. Tires not to exceed 26X12X12. Pro pulling tires are allowed.
13. All rules under section: General rules, Track rules, and Teardown and Penalties will apply to this class.
14. All persons 10 years and older may pull in the 12HP Stock Altered. Minors must have parent or guardian written permission. Drivers must demonstrate their ability to safely operate a tractor to a board member.

## LIGHT PRO MOD

1. Engine Limitations:
  - a. Limit one, 16 Hp, single cylinder, 4-cycle, air cooled garden tractor manufactured engine. No add-on cylinder jugs, diesels, overhead cam, or overhead valve engines are permitted.
  - b. Flathead engines only; no add-on overhead valve heads.
  - c. No stroker cranks.
  - d. Engines with a maximum bore of 3.812", maximum stroke of 3.250" will be limited to one stock appearing butterfly type carb. with one barrel only, maximum 1.200" venturi.
  - e. Engines with maximum bore of 3.600", maximum stroke - 3.250" will be limited to one 44mm carb.
  - f. 32 cubic inch engines or smaller will allowed to run any type or size carb., and block; with any combination of bore or stroke; and may run fuel injection.
  - g. Aftermarket Non-Finned Blocks will be allowed but must maintain Kohler stock locations for deck height, crank, and cam. Stock head bolt pattern and location must be maintained relative to the valves. Stock head gasket must fit over studs and bolts. WGTP Tech Inspectors will use a Stock template to determine legality if questioned.
  - h. Tractors meeting NQS Stock Altered rules will be allowed. NQS Rules available upon request. (1050lb weight limit)
  - i. Maximum .020" over bore will be allowed for rebuilds.
  - j. Gas or alcohol is allowed only
2. Production pulling tires are allowed.
3. All rules under sections: General rules, Track rules, and Penalty and Teardown will apply to the Light Pro Mod class.
4. All persons 12 years and older may pull in the Light Pro Mod class. Minors must have parent or guardian written permission. Drivers must demonstrate their ability to safely operate a tractor to a board member.

## HEAVY PRO MOD

1. Engine Limitations:
  - a. Limit one, 18 Hp, 1 or 2 cylinder, 4-cycle, air cooled garden tractor type manufactured engine. No add-on cylinder jugs, diesels, or overhead cam engines permitted.
  - b. Flathead engine limitations:
    - \* Gas or alcohol
    - \* Maximum stroke is 3.250"
    - \* Engines with a maximum bore of 3.812", maximum stroke of 3.250" will be limited to one stock appearing butterfly type carb. with one barrel only, maximum 1.200" venturi.
    - \* Engines with maximum bore of 3.600", maximum stroke of 3.250" will be limited to one 44mm carb. or two 1.200" venturi.
    - \* Aftermarket Non-Finned Blocks will be allowed but must maintain Kohler stock locations for deck height, crank, and cam. Stock head bolt pattern and location must be maintained relative to the valves. Stock head gasket must fit over studs and bolts. WGTP Tech Inspectors will use a Stock template to determine legality if questioned.
  - c. Overhead valve engine limitations:
    - \* Twin cylinder-liquid cooled maximum 38.5 cubic inches. Must be available in an OEM produced garden tractor. Maximum .030" over standard bore or 38.5 cubic inch maximum (whichever is less). Stock stroke crankshaft. No piston pop up out of the top of the cylinder bore (flush top pistons). Stock carbs for engine make and size with 1.200" venturi maximum.
    - \* Maximum 18Hp single cylinder. Limited to stock stroke, maximum 0.060" over bore.
    - \* Limited to gas or alcohol only
    - \* Limited to a drawbar height of 12" and maximum weight of 975 lbs. (W.G.T.P. board retains the right to change this ruling)
  - d. 32 cubic inch engines or smaller are allowed to run with any type or size carb. and block; with any combination of bore or stroke; and may run fuel injection.
  - e. All engines will be allowed to run billet heads but overhead valve engines must retain stock OEM valves and location for engine configuration and horsepower rating.
  - f. Maximum .020" over bore will be allowed for rebuilds.
  - g. Tractors meeting NQS Stock Altered rules will be allowed. NQS Rules available upon request. (1050lb weight limit)
2. Maximum tire size is 26 x 12 x 12, any rim width. Manufacturer's markings must be on tire.
3. All rules under sections: General rules, Track rules, and Penalty and Teardown will apply to the Heavy Pro Mod class.
4. Persons 12 years and older may pull in the Heavy Pro Mod class. All minors must have parent or guardian written permission. Drivers must demonstrate their ability to safely operate a tractor to a board member.

## PRO STOCK

1. Engine Limitations:
  - a. Limit one, 1 or 2 cylinder, 4-cycle, air cooled garden tractor type manufactured or configured block engine, flathead only.
  - b. Maximum cubic inches: 50.5 cu. in. for single cylinder, 56.0 cu. in. total both cylinders for twins.
  - c. A stock appearing Kohler type carburetor must be used if other than stock for the model engine being used. Stand off pipe or ram tubes permitted. Choke may be removed. Single carburetor only. Air restricting venturi must be in stock position or carburetor not to be larger than 1.200" diameter. Air controlled by butterfly in stock position in carburetor, no slides, no injection, naturally aspirated only. No air entering after 1.200" restriction.
  - d. Kohler based single cylinder engines must maintain stock Kohler K341 deck height, cam and crank locations. Stock head bolt pattern must be maintained.
  - e. Gas or alcohol only
2. WGTP Board retains the right to change carb. limitations on 50.6 to 56.0 cu. in. engines.
3. Maximum tire size is 26 x 12 x 12, any rim width. Manufacturer's markings must be on tire.
4. All rules under sections: General rules, Track rules, and Penalty and Teardown will apply to the Pro Stock class.
5. Persons 12 years and older may pull in the Pro Stock class. All minors must have parent or guardian written permission. Drivers must demonstrate their ability to safely operate a tractor to a board member.

## OPEN SUPER STOCK

1. Engine Limitations:
  - a. Limit one, 1 or 2 cylinder, 4-cycle, air cooled garden tractor type manufactured or configured engine.
  - b. Maximum cubic inches: Single flatheads – **50.5"**, (Note:GF-MH)
    - Overhead valve (single & opposed twin)– **56.0"**,
    - Overhead valve V-Twin – 45" max (May run any size single barrel carb)
    - Overhead valve V-Twin – 50.5" max (Limited to 1.2 single carb)
    - Flathead Twins – 70" (total of both cylinders),
    - Overhead Cam – 50.5" Valves must be straight up & down (no hemi style).
  - c. Allowed: After market blocks, all must maintain stock deck height, cam and crank locations. Head bolt patterns may be altered.
  - d. **Single cylinder overhead valve and** Flatheads only will be allowed deck height changes.
  - e. Single overhead cam engines only will be allowed to change cam location.
  - f. Maximum of Nitro Methane: .880 specific gravity (**Single Flat Heads – No maximum limit on Nitro but limited to 12" drawbar**)
  - g. Overhead valve engines: Alcohol only with maximum specific gravity of .800.
  - h. **Single cylinder overhead valve and** Flatheads only will be allowed Fuel injection.
  - i. No turbo or superchargers allowed.
2. Maximum tire size is 26 x 12 x 12, any rim width. Manufacturer's markings must be on tire.
3. All rules under sections: General rules, Track rules, and Penalty and Teardown will apply to the Open Super Stock class.
4. Persons 12 years and older may pull in the Open Super Stock class. All minors must have parent or guardian written permission. Drivers must demonstrate their ability to safely operate a tractor to a board member.

## LT SUPER MOD

1. Engine Limitations:
  - a. Maximum engine specifications: 850 cc - 4-cycle **600cc** - 2-cycle  
Tractors meeting the WGTP Open Super Stock Garden Tractor rules will be allowed.
  - b. Compact Diesels Allowed:
    1. Factory 3 Cylinder air or liquid cooled diesels (no cut down 4 cylinder engines) 75 cubic inch limit, No overhead cam engines.
    2. Water injection permitted, water or water soluble oil mixture only.
    3. Stock head for engine make and model, no external welding except for repair.
    4. Stock OEM intake and exhaust manifold. Porting and polishing allowed – no tube manifolds.
    5. Engine block model and serial numbers must be visible.
    6. Stock or Component frame with stock appearing garden, compact or farm tractor sheet metal with full engine shields (side shields must be a minimum of 1/16" steel or aluminum). Tube chassis must be covered with sheet metal.
    7. No billet fuel injector pumps or electronic fuel injection.
    8. Limited to one (1) turbo, no size restriction
    9. Kill switch must shut off electric fuel pump and shut air off on compressor side of turbo.
    10. Exhaust "L" of turbo must have minimum of 5/16" cross in elbow with exhaust to discharge vertically.
    11. No propane or nitrous of any kind. No intercoolers or ice boxes.
    12. Must run 1/4" cable around oil pan over top of valve cover in between #1 and #2 cylinder in a complete circle connected with cable clamps (minimum of two clamps).
    13. Steel flywheel required with flywheel inspection hole in bell housing.
    14. Flywheel, front cast pulleys and clutch must be shielded 360 degrees with 1/8" steel or 3/16" aluminum. SFI approved scatter blanket also acceptable.
    15. No belt driven cooling fans allowed, must be electric fans.
    16. WGTP Board retains the right to amend the rules for Compact Diesels during the 2021 season.
  - c. No turbo or superchargers allowed except as noted in 1b.
  - d. Maximum of 1 barrel of carburation per cylinder. Gas or alcohol is allowed. Fuel injection is allowed.
  - e. Engines must be naturally aspirated except for Rule c. above.
  - f. Tractors weighing up to 1100 lbs will be allowed but are limited to 12 inch drawbar height. WGTP Board retains the right to amend this rule after 3 pulls in the 2021 season.

## HVY SUPER MOD

1. Engine Limitations:
  - a. One 4-cycle engine, 1500cc max. with maximum of 6 cylinders.
  - b. Marine or automotive engines will be limited to 4-cycle, maximum 4 cylinders, 2 valves per cylinder.
  - c. One 2-cycle engine, 800cc 3-cylinder maximum.
  - d. 2-cycle engines 820cc to 1000cc will be limited to 12 inch drawbar height.
  - e. Multiple Engines: Maximum (2) Twin cylinder engines, naturally aspirated, 1300cc 4 cylinders total
  - f. 4 cyl (factory turbo) motorcycle engines up to 750cc max will be allowed. Aftermarket turbocharger will be allowed, but must maintain a maximum inlet ID of 1.375" and maximum outlet ID of 1.750" on the turbocharger housing. To be measured at the face of the wheel. Restricting the inlet pipe upstream of the turbocharger does not meet this rule. Must be shielded per Unlimited Outlaw rules section.
  - g. CC limits will be calculated with a 2% allowance
  - i. Maximum of 1 barrel of carburetion per cylinder. Gas or alcohol is allowed. Fuel injection is allowed.
  - j. Engines must be naturally aspirated except for Rule f. above.

## LT & HVY SUPER MOD

1. Maximum tire size is 26 X 12 X 12, any rim width. Manufacturer's markings must be on tire.
2. Maximum tractor length is 8 feet, measured from the center of the rear axle to the furthestmost point forward. Maximum width is 6 feet. Diesels – 60" wheel base per General Rules section applies.
3. Front wheels must track rear wheels.
4. Any type of rearend is allowed. Diesels see rules above.
5. All tractors must have fenders. The fenders must extend horizontally, over the tire, 4" from the vertical of the inside of the tire, to keep the driver away from the tires. All tractors must have a strong seat with 3" or more of backrest.
6. All other rules under sections: General rules, Track rules, and Penalty and Teardown apply to the Super Mod classes.
7. Persons 14 or older may pull in the Super Mod class. Drivers must demonstrate their ability to safely operate the tractor to a board member. Minors must have parent or guardian written permission. Exception: Persons operating an ATV styled machine must be 18 or older. Driver must be 16 or older to compete with blower or turbocharger.

## OUTLAW

1. Engine Limitations:
  - a. Limit one engine, no marine or automotive engines.
  - b. Maximum 1500cc - 4-cycle , Maximum 1000cc - 2-cycle  
Tractors meeting the WGTP Open Super Stock Garden Tractor rules will be allowed.
  - c. No pressurized fuel tank, turbo chargers, or super chargers except engines allowed per Lt & Hvy Super Mod Rules.
  - d. Flatheads only may run Nitro Methane. **(No maximum limit)**
  - e.
    1. 4-cycle engines over 850cc and 2-cycle engines over **600cc** will be limited to a 12" drawbar height.
    2. Compact Diesels meeting the rules for Light Super Mod will be allowed a 13" drawbar height.
    3. 2-cycle engines 820cc to 1000cc will be limited to 11" drawbar height,
    4. 4-cycle 750cc engine with turbocharger meeting Heavy Super Mod Rules allowed but is limited to 12" drawbar height.  
4-cycle 1000cc engine with turbocharger will be allowed but is limited to 11" drawbar height. (Must meet Unlimited Outlaw rules for turbos) WGTP Board retains the right to amend this rule after 3 pulls in the 2021 season.
2. Maximum tire size is 26 X 12 X 12.
3. Maximum tractor length is 8 feet, measured from the center of the rear axle to the furthestmost point forward. Maximum width is 6 feet.
4. All rules under section: General rules, Track rules, and Teardown and Penalties will apply to the Outlaw class.
5. Drivers must be **14 years** of age to run a tractor built for the Outlaw class, or meet the minimum age requirement for the class that the tractor normally competes in. All minors must have parent or guardian written permission. Drivers must demonstrate their ability to safely operate a tractor to a board member. Exception: Persons operating an ATV styled machine must be 18 or older.

## LIGHT & HEAVY UNLIMITED OUTLAW

1. Engine Limitations:
  - a. **Diesels:** Maximum 2400cc, 4-cycle, two turbos.
  - b. **4-Cycle Motorcycle, Automotive, Snowmobile, or Garden Tractor type engines:** Maximum 3000cc, naturally aspirated, gas or alcohol only.
    - b.1. Single engine up to 6-cylinder, 4-cycle; up to 2500cc only will be allowed to one turbo or one super charger. Must be gas or alcohol type engine.
  - c. **2-cycles:** Maximum 2200cc, naturally aspirated gas or alcohol only.
    - c.1. 2-cycle up to 2000cc will be limited to one turbo or one super charger
  - e. **Turbines:** For Turbine Rules contact a member of the WGTP Board or call 920-296-9602.
2. Pressurized fuel tanks are not allowed.
3. One Turbo or Supercharger will be allowed on a multi-engine Tractor provided the cc limits are equal to or less than the limits stated in Rule b.1 or c.1 above and can affect only up to 50% of the total cc of the Tractor.
4. All Turbo chargers: maximum 2" inlet and 3" outlet (exhaust) to be measured at the face of the wheel.
  - a. All exposed turbochargers or portions thereof must be shrouded 360 degrees with a minimum of 1/16" (.060") steel except for inlet and exhaust.
  - b. All turbocharged engines must have two 3/8" bolts, grade #5 or stronger, in the vertical portion of exhaust pipe. Bolts to be installed 90 degrees to each other, within 1" of each other.
5. All Superchargers:
  - a. Must utilize aluminum studs to mount the supercharger to the intake manifold.
  - b. Must utilize supercharger restraint system.
    - \* The restraint system shall consist of 4 separate straps, one on each corner of the supercharger, with each strap securely fastened to the engine by means of its own attachment bracket.
    - \* The top attachment bracket to be sandwiched between the lower surface of the injector body and the upper surface of the supercharger case.
    - \* The bottom attachment bracket for each strap shall be connected to the engine by a minimum of (1) 5/16"(Grade 5) bolt or stud.
  - c. All supercharger drive components must be shrouded on the top and sides with 1/16" (.060") steel. The shield is to be wider than the drive belt, pulleys, etc. and securely mounted.
6. Diesels: Kill switch must activate air shut-off, no electrically operated air shut-offs.
  - a. System may use a spring-loaded cap activated by a cable.
  - b. System shall be deemed acceptable if it at least prevents the building of boost.
  - c. Driver must have access to the shut-off.
7.
  - a. The use of torque converters and automatic transmission will be permitted.
  - b. All torque converters and automatic transmissions must be covered with a scatter blanket that extends from the rear of the engine block to the front of the tail housing. Blanket must be fastened forward securely with two straps on each side, one above crankshaft centerline and one below crankshaft centerline. Blanket should have 6" of overlap. Straps must be not less than 2" wide with not more than 1" spacing between each strap.
  - c. All tractors using a clutch will be required to have steel billet or aluminum billet flywheel. No gray cast metal allowed in any flywheel.
  - d. Lenco type planetary transmissions (excluding reverser) must be covered with a scatter blanket as described in rule #2 in this section.
  - e. All tractors using an automatic transmission must be equipped with a positive reverse-gear lockout.
  - f. Clutch can be a Lakewood type bellhousing. Stock bellhousing will be allowed – must be fully encased front to back with SFI Approved Blanket
  - g. The use of a bellhousing liner is highly recommended.
  - h. Clutch can liner thickness to be 1/8" 4130 moly. Liner is secured to the can by drilling and tapping a single 1/4" hole through the bottom of the clutch can. If the liner does not fit, the liner length can be cut off to fit the depth of the can, so that the liner begins directly behind the starting ring gear (if one is used). It must extend the full length of the can until the back of the clutch begins to taper. If starter ring gear is not used, can liner must then extend from block saver plate rearward to where the taper can begins. Stand adjustment slot in liner should be cut directly under slot in can.
  - i. No lightening holes allowed on the transmission face of the bellhousing. One cooling hole allowed, maximum 1" in diameter on the face of bellhousing. Bellhousing may not be welded or repaired in the explosion area of the bellhousing. Opening in bellhousing for clutch release fork must be shielded on side, top, bottom, and rear with 1/4" steel no less than six inches wide. The frame of the tractor may be used for the side shield. The top, rear, and bottom must be fastened to the frame and/or the bellhousing flange with a minimum of six (6) Grade #8, 3/8" bolts. The rear shield may have a hole large enough to allow operation of clutch rod linkage. No part of shield may be welded to or bolted to the bellhousing and shield must conform to the contour of the bellhousing.
  - j. No chemical milling allowed.
  - k. The inspection/maintenance hole (i/m hole) in the bellhousing shall not extend farther forward at its bottom edge than flush with the cross-shaft hole nor farther downward at its bottom edge than to allow one 1/2" bolt diameter edge distance for the fastening holes in both the bellhousing and the i/m hole cover. The length of the "i/m" hole shall be no more than 8 1/2" and the ends of the hole shall be smoothly and fully radiused to produce an oval shape.
  - l. There shall be (12) 5/6" Grade #5 or better cap screws securing the cover to the bellhousing. The cover must have a plate or fillet that fits flush inside of the housing. The cover and fillet must be steel. The fillet must be welded to the cover and all bolts must be flush to the inside.
  - m. All bell housings must be flush on the inside surface.
  - n. All engines with a bellhousing and clutch must run a full block plate, minimum 3/16" steel, or minimum 1/4" aluminum.
  - o. Titanium approved for bellhousing.
8. Maximum tire size is 26 X 12 X 12, any rim width. Manufacturer's markings must be on tire. All single cylinders may run any 15" rim diam. tire but will be limited to 1150 lbs. Weight limit. WGTP Board retains the right to amend the weight limit.
9. Maximum tractor length is 8 feet, measured from the center of the rear axle to the furthestmost point forward. Maximum width is 6 feet.
10. Roll cage is optional but strongly recommended.
11. All rules under sections: General rules, Track rules, and Penalty and Teardown will apply to the Unlimited Outlaw classes.
12. Persons 16 or older may pull in the Unlimited Outlaw class. All minors must have parent or guardian written permission. Exception: Persons operating an ATV styled machine must be 18 or older. Drivers must demonstrate their ability to safely operate a tractor to a board member.

# GENERAL RULES

1. All flywheel shielding: 1/8" steel or 3/16" aluminum, full width of flywheel or more, 360°, installed within 1/2" of stock tin shielding and to be fastened to the frame or engine block. T-brace on shield to be at Tech. Inspectors discretion. Steel or billet aluminum flywheels are mandatory for all Non-Stock tractors. **(Does not apply to Stock Tractors)**
2. Starting pulleys must be billet aluminum or billet steel. Must have a locking collar and/or bolt to prevent pulley from coming off the crankshaft. For Stock Classes - Cast iron or cast aluminum starting pulleys are not allowed, must be stamped steel. Stock generator pulleys are acceptable. All must have a retaining device as defined above.
3. All cast iron or aluminum Kohler, Wisc, etc. type engines that have been modified for high performance are to have scatter shields opposite the camshaft side of the engine. Diesels – must have full metal shields to cover engine area.
  - a. Shielding must be minimum 1/16" steel or .090" aluminum.
  - b. Shielding must cover full width and height of engine block.
  - c. Shield must be attached to the chassis/hook in a secure manner at both top and bottom.
  - d. **This rule does not apply to the Stock class.**
  - e. Proper shielding in Super Mod and Outlaw classes will be up to the Tech. Inspectors.
4. All tractors must have shields around all belts, chains, pulleys and the drive shaft. Minimum of .060" steel or 1/8" aluminum. U-joints, front, top, and sides toward spectators shall be completely covered.
5. Clutches must be covered 360° with 1/8" steel or 3/16" aluminum **(except Stock)**. Shielding is to be securely fastened to prevent tear away, extra bolts are strongly recommended. It is strongly recommended to not bolt anything (ex: fire extinguishers) to any safety shields.
6. "Mod & Outlaw Classes" -Any damper or rotating mass mounted to a non-drive end of crankshaft must be billet steel or aluminum and be retained by bolt through the center. Must be SFI Spec 18.1 approved or flywheel shielded.
7. All tractors shall be equipped with a working pull out type switch, which is capable of immediately shutting down engine in case of accidental separation from the sled during the course of competition. This kill switch shall be located at the rear of the tractor in a position that will allow easy attachment and detachment. The switch must be above the hook point or and near enough to the centerline of the tractor so that turning will not cause the kill switch to pull out - (suggested to be within 6" of either side of center). The kill switch must also shut off the fuel pump. Kill switches will be randomly checked.
8. A qualified driver must be in the seat at all times when the tractor engine is running unless the tractor is hooked to the sled with tether (kill switch) line attached.
9. All tractors must have an adequate device to prevent it from turning over. It must consist of two separate sections, each equipped with either skid plates or wheels, or connected with a full width roller. Skid plates are to be at least 3" square at the ground contact point. Wheels shall be at least 1" wide and 4" in diameter. Wheels or skid plates are to be no more than 5" above the ground and must be back 5" from the tires. One shall be on each side of the tractor, with the combination of the two strong enough to support the weight of the tractor when a jack is placed under them to raise the tractor. Full width roller must be a minimum of 1 1/2" diam. to a maximum of 3.0" diam. Anti-tip over device may be spring loaded but must stop at 5.0". Bumper bars are required, recommended height is 12 inches from wheelie skids up. Wheelie skids must not interfere vertically with chain during pull. Bumper bars are required, recommended height is 12 inches from wheelie skids up. Bumper bars will be the furthest rearward point of the tractor with nothing beyond them except wheelie skid pads or wheels.
10. Garden Tractors: Exhaust pipe must project up, and not face spectators. Super Mod and Outlaw tractors: Exhaust pipe may project back but must be no more than 20" from ground level.
11. Tractors must be equipped with working rear brakes.
12. Tractors with electric starts must have a neutral/clutch switch.
13. Head straps are mandatory for all factory cast iron and aftermarket finned blocks (except in Stock Class).
14. Deadmans throttles are required, either foot or hand feed. Hand throttles must push forward to increase RPM's.
15. No pressurized fuel tanks of any kind.
16. All tractors must have a functional fire extinguisher (with fill gauge/indicator) within easy access.
17. All tractors must have a minimum 3" back rest height.
18. Strapped helmets are required and eye protection is recommended.
19. Fire jackets and pants are mandatory for all non-stock tractors. The jacket must be closed to its fullest extent. All drivers must wear closed toe shoes, long pants (or fire pants), shirt (or fire jacket). No Nylon. Fire pants, shoes, gloves, and headsocks are strongly recommended for all drivers.
20. Tractors must run a garden tractor type rearend, differential, or transaxle housing or casting. Modifications are permitted. (except Super Mod and Outlaw classes)
21. No industrial or commercial lawn cutting engines. Must be garden tractor type engine. (except Super Mod and Outlaw classes)
22. All tractors require wide front ends. Front wheels must track within any portion of the rear wheels.
23. Turbos (except for diesels), blowers, and superchargers are only allowed as listed per class.
24. No nitrous oxide injections. Propylene Oxide is not allowed in any classes. Fuel injection is allowed as listed in class rules only.
25. Drawbar:
  - a. All drawbars will be 13" maximum height, unless otherwise specified per class.
  - b. Minimum of 6" from hook point to center of rear tire, cross-section area to be a minimum of 3/8", maximum of 3/4".
  - c. Must be fixed in all directions.
  - d. All hitches must be clevis type opening of 1 1/2" to accept the hook from the mechanical sled freely, no binding.
  - e. Stocks must have a 5/8" minimum hole for clevis.
26. Maximum wheel base is 56" for Garden Tractor Classes. (Note: GF-KM) Maximum overall length is 96" from center of rear wheel to the furthestmost point of the tractor.
27. All power must be transmitted through the rear wheels only, no four wheel drives.
28. Tractors must run with a hood similar to factory, excluding Super Mod and Outlaw classes.
29. Tires: No studs, chains, wires, duals, or recaps are permitted. Tractors are limited to 26 X 12 X 12 (Factory marking only, unless otherwise specified per class).
30. Weights must not interfere with the hookup of the mechanical sled, and must be securely fastened. Nothing may interfere with hook-up, chain, or drawbar at any time.
31. Total weight of classes includes the weight of the driver (with suit and helmet) and the tractor.
32. Stock crank and cam locations must be maintained in all classes except Outlaw.
33. Unless otherwise specified per class: Maximum 2 valves per cylinder, no deck plates. Only Kohler, Tecumseh, Wisconsin, Briggs and Stratton, or Onan OEM manufactured blocks, or their OEM replacements are permitted.
34. Unless otherwise specified per class, the maximum specific gravity will be .765 for gas, .800 for alcohol, and .775 for pre-mix gas used in 2-cycle engines. All readings will be corrected to include temperature compensation to 60 deg Fahrenheit.
35. All tractors must have fenders, Unlimited Outlaw fenders must cover 75% width of the tire and extend down to the level of the footrest.
36. CVT clutches are not allowed in garden tractor classes (Stock thru Super Stock).

## GENERAL RULES cont'd

37. A driver will be allowed to pull in a class where the age requirement is higher, as long as the tractor is not changed, still meets rules of the class that the driver was qualified for.
38. It is strongly recommended that weights be at least 3 inches off the ground and a skid plate with a 1-inch radius rolled front edge be placed under extendable front weights so that no part of the weight touches the ground and it does not interfere with operation of tractor. It is also recommended that extendable weight frames have a lock pin to prevent frame from disengaging.
39. Tractors with reverse gear must have a white backup light, minimum 2.0" diam. (except Stock where recommended only)
- 40. All Tractors must be Tech Inspected prior to competing. New tractors may be allowed (1) pull to meet the rules. (This will be determined/recorded by the Tech Inspector) Tech Inspector will inform the new owner/member of changes needed prior to next pull. Tractors found to be illegal due to changes after passing Tech Inspection will be disqualified.**
41. Changes in class specification rules can only be made at the annual WGTP fall meeting with the exception of handicap limits and shielding. WGTP Board of Directors retains the right to correct rule misprints or misinterpretations based on the meeting minutes.
42. The WGTP Board may determine 2 pulls at which a rule or rules proposed at the spring meeting will be implemented for experimental purposes. No points will be awarded to competitors joining a class under experimental rules.
43. Any violation of any of the General rules, will be cause for disqualification.

## TRACK RULES

1. Tractors may be entered in as many classes **as 3 per session**, but only once in each class.
2. Pullers must be registered in ½ hour before the scheduled start time of the pull. Late entries may be charged \$5.00 extra unless breakdown is proven.
- 3. At the discretion of the scale operator (due to space) - tractors may not be allowed to line up and scale until the class prior to that tractor's class has started. The first class will line up and scale approx 15 min prior to the pull start time. Exceptions will be made for track workers and sled operators.**
4. There will be a driver's meeting ½ hour before the start of the pull, at the sled. (Drivers failing to attend without reason risk automatic disqualification)
5. Tractors should be ready by the time the sled arrives back to the starting position. Pullers will have only 3 minutes after the sled is back in place and the leveling equipment is off the track to start their pull. If they are unable to start their pull due to mechanical trouble, they may drop back three positions, or to last position if they have breakage. They may only do this once. Every effort must be made to drive tractors on and off the track. The 3 minute rule will be strongly enforced. Push or tow starting allowed only if normal ignition has failed. If tractor is not started by the 75 foot mark, it must be towed around and ready after the next puller, then if the tractor does not start, you may drop to last position. Two attempts of 75 ft. (50 ft. for Stock class) are allowed to start sled. Sled will not be push started. Any tractor that hooks onto the sled and makes a measurable pull shall be considered to have made an official hook, even if the sled is reset and the tractor cannot re-hook. Last place points will be awarded.
6. The first puller is the test puller in each class, and may decline the pull and re-pull right away or drop back to third or last position. If the puller re-pulls, the second pull will be measured.
7. Shifting of gears on either hydrostatic, automatic, or gear type is allowed, as long as forward motion of the tractor does not stop.
8. The point of measurement will be where the tractor either spins out or powers out.
9. No weight (solid or liquid) may be added to a tractor after scaled. Weight may be moved or removed. Any added weight will require re-scaling.
10. Loss of weights (on track) will be cause for disqualification, including first puller, if the mechanical sled is not changed for the next puller. If it happens during a pull-off, it will be the point of measurement and you will be dropped to last place in the pull-off.
11. Loss of anything besides weights will be up to the discretion of the judge whether to let the pull continue or to let that be the point of measurement.
12. Judges have the right to weigh a tractor before or after a pull.
13. Driver must remain in the seat at all times, with at least one hand on the steering wheel. Hands must not be placed underneath the fender edges.
14. If the kill switch pulls out more than twice while pulling, it will be point of measurement, unless the sled is the cause of the pullout.
15. Judges have the right to disqualify any driver for drinking alcoholic beverages.
16. There will be no drinking of alcoholic beverages by drivers, pit crew, track workers or sled operator during the pull.
17. Excessive loss of liquid by a pulling tractor while in forward motion during a contest on the track will be disqualified, unless due to internal breakage. Excessive is defined as a steady or intermittent stream discharged onto the track, or a spot equivalent to more than 8" in diameter.
18. Tractor going out of bounds: Any pulling tractor tire that touches out of bounds lines will cause disqualification, unless the eliminator forces it out. If the tractor is beyond the end of track (orange) cones it will not be disqualified. On first attempt for first puller only - puller will be allowed to re-pull regardless of where the tractor went out. All others - If the tractor goes out of bounds before the 75 ft mark and the driver attempts to stop before the 75 ft mark the tractor will be allowed to re-pull. If you go out of bounds during a pull-off, it will be point of measurement and you will be dropped to last place in the pull-off.
- 19. All decisions of the judges are final. Judgment calls by the Track Judge are not subject to appeal. Once the Red flag is out it will stay out.**
- 20. Judges have the right to not let any driver/tractor compete they feel is unsafe. Green flag will not be given until track is clear. The Track Judge may stop any pull attempt considered unsafe. The pull will be measured at that point.**
- 21. If Puller starts to pull while Judge still has the Red flag out, the pull attempt is forfeited, puller must stop. If the Judge has given the Green flag but the Sled still had Red Light, the pull will be stopped but the attempt is not forfeited.**
- 22. Disqualification will result if driver does not attempt to stop when Red flagged for any reason.**
23. If the sled rider feels a dangerous condition exists on the track, he may pull the sled brake and issue a re-pull for that puller.
24. Once a tractor is hooked to the sled and any breakage to the tractor occurs, no refund of entry fee will be made for that class. Any competitor who breaks at an event (or provides notification prior to class start of breakdown in-route to the event) will receive 5 hook points for all classes entered, but will not receive any prize money unless a measurable pull has been made by that tractor in that class. Verification may be requested.
25. No hot rodding on, off, or around the track when not pulling, including tow tractors. Off track speed limit not to exceed 5mph, subject to the discretion of track judge or WGTP Board. \* 1st time : Warning \* 2nd time : Disqualification  
(ATV type tractors used for towing machines on and off the track must be operated by someone meeting the state imposed age limit.)
26. When a pull-off occurs, there will be two attempts of 30 feet to start the sled.
27. The use of floating finish lines will be determined by the Board of Directors and the sled operators. Unless otherwise announced at each pull, a pull-off zone will be established. The zone will consist of the first full pull line and the end of track line. Any puller reaching the end of track line will automatically qualify for a pull off and/or up to the top 3 distances in the pull off zone.
28. These rules must be followed in order for the pull to be sanctioned by WGTP Inc.

## TEARDOWNS AND PENALTIES

1. The protest window is 30 minutes from the conclusion of the class, any protest must be brought to the board at that time and settled before any prize money is distributed. Protests for fuel and teardowns cannot be made outside of class participated in.
2. Each protest to the legality of a tractor engine must be accompanied by a teardown fee, \$20.00 + estimated cost of gaskets. All costs must be paid at the time of the protest. Estimated gasket cost will be recorded on the Tractor's Tech Sheet. The owner of the tractor will remove the head, carb, or both, whatever the Tech. inspector wants. Refusal is an automatic disqualification. If found to be legal, the owner will receive the protest fee. **If the tractor is found to be illegal, the protester will get his fees back, the illegal tractor will be disqualified from all classes entered that day, and disqualified from Points System for the rest of the season.** The offender must prove legality to the WGTP Board upon return to competition, and pay re-registration fee of \$50.00. Any protest not involving teardown will require the \$20.00 protest fee only. A tractor must have finished in the top 5 of a class to be subjected to a teardown.
3. Tech. Inspectors or Board members have the right to check specific gravity of a competitor's fuel at any time. Any reading over the maximum listed under each division, on the club appointed hydrometer, will be disqualified even if found before the start of the pull. WGTP Board retains the right to check rpms, carbs, weight, and drawbar at the completion of an Individual's pull. The driver will be notified prior to leaving the track. Tech. Inspectors or Board members retain the right to perform "Water" tests or other fuel checks on randomly selected classes to detect the use of methanol, ethanol, alcohol, or other substances where prohibited or otherwise limited.
4. Classes with cubic inch limits will use the following formula:  $.785 \times \text{Bore} \times \text{Bore} \times \text{Stroke} \times \text{Number of Cylinders}$   
Note: Allowed 2% over for rebuilds unless otherwise specified in the class rules.
5. When disqualified for going out of bounds, loss of weights, or loss of liquid, the tractor will get last place points for the class.
6. When disqualified for illegal fuel, drawbar, over weight, or improper equipment, the tractor will get no points, no hook points, or no prize money for any classes run that day.
7. The WGTP Board retains the right to suspend members causing or participating in disturbances on or near the track, from participating in the balance of the event and/or future pulls. No prize money, refunds, or points will be awarded during the suspension.
8. WGTP Board reserves the right to conduct random teardowns of top tractors per class prior to payout of prize money.
9. Drivers/Owners are responsible to have the tractor legal and Tech Inspected prior to pulling or risk disqualification.

## MEMBERSHIP INFORMATION

1. Membership Dues:  
\$40.00/Member or \$30.00/Member (If paid at or before the spring meeting)  
plus \$15.00/Tractor
2. Memberships run from Jan. 1 through Dec. 31, and must be paid annually.
3. WGTP Inc. full season membership includes:
  - a. Voting rights at annual meeting. Garden tractor drivers/owners only will vote on garden tractor class rules and Super Mod drivers/owners only will vote on Super Mod class rules
  - b. Rights to hold a position on the Board of Directors.
  - c. All mailings, meeting notices, and schedules.
  - d. Copies of all WGTP rules and regulations.
  - e. Two pit passes per member and one for each additional tractor.
  - f. Availability of liability insurance - to be paid on a per pull premium basis.
  - g. Participation in WGTP points system.
4. One day memberships will be available at a cost of \$10.00/day for the driver and the tractor and \$5.00 for each additional driver and tractor, to be used no more than twice per season. This cost will be \$5.00 for local stock drivers.
5. A per class entry fee is required to compete at a WGTP pull event. The entry fees collected per class determine the prize money amounts to be distributed. A portion of the entry fee may be used to cover the insurance cost of the pull.
6. Those participating in the WGTP points system will be eligible for the overall points championship per weight class based on points accrued throughout the year. These classes are:

Child Stock	1000#	Heavy Pro Mod	1050#	Outlaw	1100#
Adult Stock	1050#	Pro Stock	1050#	Unlimited Outlaw	1400#
Stk Twin 21-25	1050#	Open Super Stock	1050#	Heavy Unlimited	1450#
25 HP Imp	1050#	Light Super Mod	1050#		
Light Pro Mod	1000#	Heavy Super Mod	1300#		
7. Ties in points: the 1st place finishes will be added up and the tractor with the most in that class will win. If still tied, 2nd place finishes will be tallied and so on, if still an absolute tie the tractor who had the "first" 1st Place of the season will be the Champion. A pull-off for a tie will be allowed if both parties agree and time permits, the decision will be final.
8. The number of points awards offered at the end of the year will be based on the number of tractors in the class:

2 or less	1st only
3	1st and 2nd
4 to 7	1st through 3rd
8 to 11	1st through 4th
12 or more	1st through 5th
9. The Tractor must compete in a class at least 51% of the season to be considered in the points for that class. Points will stay with the tractor for the duration of the season. One-Day Members are not factored in the points.
10. If, during the season, an owner determines the frame, chassis, or sheet metal of a tractor must be replaced, any replacement parts must be the same as previously existed on the tractor unless written permission is granted by the Board prior to replacement. Failure to comply will result in the repaired tractor being considered a "new" tractor and all points will start over at zero.
11. If all drivers in a class agree that track conditions do not warrant a points pull **prior to the start of the class**, tractors participating in the class will receive equal participation points. (per hook pts)
12. In the event of a pull cancellation (due to weather) pullers who have arrived or call (1) hour prior to set pull time will be awarded hook points.
13. Points per class will be awarded as follows: 5 Hook Pts plus points starting at 10 for 1<sup>st</sup> place, 9 for 2<sup>nd</sup> place, and so on down to 1 point for 10<sup>th</sup> place. (1<sup>st</sup> = 15pts, 2<sup>nd</sup> = 14pts, 3<sup>rd</sup> = 13pts and so on)

### Definitions:

Tractor = Pulling Vehicle, Tractor, or Machine

Puller = Tractor-Driver combination

Driver = Driver

Owner= Owner Member

**Zach Kerber Machine & Design**

405 3rd Street  
McClelland, IA 51548

Email: zkbmachine1@hotmail.com  
Phone: (712) 566-3008

www.facebook.com/zachkerbermachineanddesign

(217) 536-6946  
FAX (217) 536-6458



VOGEL MANUFACTURING  
HI-PERFORMANCE ENGINE PRODUCTS

CHARLES A VOGEL  
OWNER

10862 N 1000th Rd  
EFFINGHAM, IL 62401

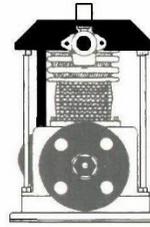
**812-522-5577**

726 E. Tipton Street Seymour, IN 47274

Cam Design  
Camshafts and Components  
Grinding for Single or Twin Cylinders  
New \* Regrinds \* Stock

**Greg Hackman**

812-522-5577  
fax 812-522-5577



**MORT'S POWERHOUSE**

SPECIALIZING IN  
HI-PERFORMANCE PARTS FOR  
GARDEN TRACTOR PULLERS  
(RESEARCH & DEVELOPMENT)  
ON SIGHT DYNO

SMALL ENGINE BUILDING, OVERHAULS, & REPAIRS

KEN "MORT" MORTIMER  
OWNER

8393 N. CHURCH RD.  
ROCK CITY, IL 61070  
815-865-5523



Julian & Cathy Stahl  
Midwest Super Cub, LLC  
1323 - 4th Avenue  
DeWitt, IA. 52742

www.midwestsupercub.net  
email: supercub@clinton.net

888-414-6983

24-hour toll free order line  
Technical Assistance: 563-659-5276

Fax: 563-659-5361

**Don Vogt**

Used Cub Parts  
Campbellsport, WI  
Phone: 414-573-7978  
dvogtvp@yahoo.com

*Nichols  
Performance*

Russell E. Nichols  
(740) 489-5820

*"The Winning Combination"*

- Engine Design & Building
- Computerized Dyno Facilities

17182 Cadiz Rd.  
Lore City, OH 43755

- Rearend Assembly
- Specialty Parts

**Lakota Racing**

Don Sample  
Custom Titanium Retainers  
Carrollton, OH  
Phone: 330-627-7255  
[Lakota@raex.com](mailto:Lakota@raex.com)  
www.lakotaracing.com



Engine Building \* Flow Testing \* Custom Machining  
Computerized Dyno Testing \* Tire Sharpening

Todd Rabe  
Kaukauna, WI

(920) 636-6856  
rabemotorsports@yahoo.com