

Engines

General

1. Tractor must be equipped with the stock engine block for that tractor or an Original Equipment Manufacturer's (OEM) replacement block. Replacement engines must be approved by a board decision.
2. Cylinder head must be a bolt on OEM agricultural-type for that brand engine.
3. If 5/8" deck plate is used, the deck plate is not part of the head and the piston must pass through the deck plate.
4. No recasted or billet, or after market head allowed in any ECMTPA classes.
NOTE: MUST BE ABLE TO BOLT ON STOCK INTAKE & EXHAUST MANIFOLDS.
5. No overhead cams allowed. Only one intake and one exhaust valve per cylinder.
6. Allowed only one air-compressing device limited to one pressure stage. No superchargers allowed.
7. Tractor must operate on fuel designed for that cylinder head.
8. Engine blocks may not be modified externally except for repair or mounting of injection pump.
9. No pressurized containers may be on a tractor. (i.e., CO², nitrous oxide, propane, etc.)
- 10.No inner coolers.
- 11.1% tolerance on cubic inch limit for clearance purposes intended.

Pro Field

1. Cubic inch limits for Pro Field are as follows:
8200 lb. Class is 466 ci
9200 lb. Class is 504 ci
*Engines must be stock bore and stroke for make/brand of tractor.

* Allis-Chalmers tractors can build up to 466 cu. inches with no inner cooler! *

All tractors with more than 430cu. inch motors will be required to weigh 300 lbs. light for each class.

Example: Up to 430cu. inches = 8500lbs. / 431cu. inches or bigger
8200lbs.

Example: Up to 430cu. inches = 9500lbs./ 431cu. inches or bigger
9200lbs.

2. RPM limit is 3000 RPM maximum for all Pro Field tractors. If a tractor spikes the rpm box more than two times, or longer than one second, the tractor is disqualified from the class for that event. If this occurs three times the tractor will then be disqualified for 1 year and a day.
3. Injection pump can be A-pump limited to 11½ mm plungers or a P-pump limited to 13 mm plungers or can still run stock appearing pumps. 8300 Series injection pump will not be allowed in any ECMTPA class.
4. In a RPM dispute, individual tractors in the class can be checked. If a tractor is found above the specified RPM, the following will result:
1st offense-disqualified from class
2nd offense-disqualified from pull and all prize money forfeited
3rd offense-disqualified from the association for 1 year and 1 day. All dues and accumulated points will be forfeited.
5. Turbo exhaust bolt pattern is to be no larger than 2.75 inches by 3.50 inches. Base must be cast with housing and not welded. No welding of a small base to a large housing, i.e., T-18A95 with a small base welded to it.
6. Turbo compressor measurement to be measured at the face of the wheel inlet a maximum of 2.55 inches. The wheel may be no larger than this measurement at the inlet. Tips of the wheel must protrude into housing 1/8 of an inch. All air must enter through 2.55 inch hole. Slick housing chargers only.
7. Only OEM intake and exhaust manifolds will be allowed. They can be modified for turbocharger mounting.
8. No recasted or billet, or after market head allowed in any ECMTPA classes.
NOTE: MUST BE ABLE TO BOLT ON STOCK INTAKE & EXHAUST MANIFOLDS.

9. Inner coolers are **only** allowed on Allis-Chalmers tractors with 426 ci motors or less.
10. All ECMTPA classes, with the exception of Alcohol Super Stock, must run fuel and water purchased by ECMTPA from Stern Oil Co.
11. In all Pro Field Classes, the tire size is 23.1" x 34" or 20.8" x 38". Pro Field tractors may run radial tires.

Super Farm

1. Maximum engine displacement for a 9300 lb. Super Farm tractor is 640 cubic inches. A 9800 lb. Super Farm tractor is limited to 466 cubic inches. Engines can be modified up to limit but no tolerance above limit is allowed.
2. Engines may have a steel plate, maximum of 5/8 inch thick, between the block and head.
3. No recasted or billet, or after market head allowed in any ECMTPA classes. NOTE: MUST BE ABLE TO BOLT ON STOCK INTAKE & EXHAUST MANIFOLDS.
4. Turbo rules are NTPA Super Farm rules.
5. Only OEM intake and exhaust manifolds will be allowed. They can be modified for turbocharger mounting. 466 cubic inch tractors may run with headers.
6. Tractors may have only one injection pump limited to a P series Bosch with a maximum of one plunger per cylinder. 8300 Series injection pump will not be allowed in any ECMTPA class. Maximum size injection pump is a P-pump with maximum size plungers of 13 mm.
7. No inner coolers allowed.
8. All ECMTPA classes, with the exception of Alcohol Super Stock, must run fuel and water purchased by ECMTPA from Stern Oil Co.

9. Maximum tire size allowed for competition in all Super Farm and Limited Pro Stock classes is 24.5" x 32" with a maximum of 210 inch circumference, when inflated to 10 psi. Tread width not to exceed 25 inches.

Limited Pro Stock

1. Cubic inch limits for Limited Pro Stock are as follows:
6400 lb. Class-410 cubic inches-1 turbo or
315 cubic inches-2 turbos (diesel)
6100 lb. Super Stock-360 cubic inches-2 turbos
8200 lb. Class-466 cubic inches (no inner/after coolers)
9500 lb. Class-640 cubic inches
2. Engines can be modified up to limit but no tolerance above limit is allowed.
3. Engines may have a steel plate, maximum of 5/8 inch thick, between the block and head.
4. No recasted or billet, or after market head allowed in any ECMTPA classes.
NOTE: MUST BE ABLE TO BOLT ON STOCK INTAKE & EXHAUST MANIFOLDS.
5. Tractors may have only one injection pump limited to a P series Bosch with a maximum of one plunger per cylinder. 8300 Series injection pump will not be allowed in any ECMTPA class. Maximum size injection pump is a P-pump with maximum size plungers of 13 mm.
6. Gas tractors are limited to one four-barrel carburetor. All fuel must be metered through the carburetor's metering jets. Alcohol may be injected under 20 psi before the turbo (gas tractors only).
7. No inner coolers allowed.
8. All ECMTPA classes, with the exception of Alcohol Super Stock, must run fuel and water purchased by ECMTPA from Stern Oil Co.
9. Maximum tire size allowed for competition in all Super Farm and Limited Pro Stock classes is 24.5" x 32" with a maximum of 210 inch circumference, when inflated to 10 psi. Tread width not to exceed 25 inches.

6400 lb. Limited Pro Stock & 6100 lb. Super Stock

1. No overhead cams allowed.

2. OEM cast head only. No recasted or billet, or after market head allowed in any ECMTPA classes. NOTE: MUST BE ABLE TO BOLT ON STOCK INTAKE & EXHAUST MANIFOLDS.
3. No component tractors.
4. No inner coolers allowed.
5. Alcohol Super Stock can run diesel head with spark plugs.
6. Maximum tire size allowed for competition in the Super Stock class is 30.5" x 32" with a maximum of 210-inch circumference, when inflated to 10 psi. Tread width not to exceed 32 inches.
7. Maximum tire size allowed for competition in all Super Farm and Limited Pro Stock classes is 24.5" x 32" with a maximum of 210 inch circumference, when inflated to 10 psi. Tread width not to exceed 25 inches.

6400 Limited Pro Stock Turbo Rules:

1. Turbo compressor measurement to be measured at the face of the wheel inlet a maximum of 3.0 inches. The wheel may be no larger than this measurement at the inlet. One map width enhancement groove of .200 allowed. Wheel must protrude into housing 1/8 of an inch. All air must enter through 3 inch hole. Must be 3 inches on both sides of map width enhancement groove. At least 1/8 inch on back side of map width enhancement groove must be 3 inch diameter.
2. Exhaust outlet is to be no larger than four inches at the face of the exhaust wheel. Exhaust wheel shall be no larger than four inches at its face and taper back from face evenly with no steps.
3. 6400 lb. gas tractors will be allowed to run waste gates.

8200 Limited Pro Stock Turbo Rules:

1. The compressor inlet measurement to be measured at the face of the wheel a maximum of 3.0 inches. Tips of wheel must protrude into 3 inch opening at least 1/8 of an inch.

Note: Housing may use a reducer or slug if welded in place. No setscrews or provisions to remove slug. Tips of wheel must still protrude into opening.

2. The exhaust outlet measurement to be measured at the face of the wheel a maximum of 4.0 inches. Tips of wheel must protrude into 4 inch opening at least a 1/8 of an inch.

Note: Housing may use a reducer or slug if welded in place. No setscrews or provisions to remove slug. Tips of wheel must still protrude into opening.

3. No functional waste gates. No air entry after 3 inch opening in compressor or 4 inch opening in exhaust housing. No MAP width enhancement grooves. No variable geometry turbos.

Note: Waste gated exhaust housing allowed, but must be altered to look like non-waste gated exhaust housing. All passages internal and external must be plugged.

4. The maximum allowed clearance on each side between turbine wheel and the 3 inch opening when measured at the 1/8 inch protrusion not to exceed .050 maximum. This applies to both intake and exhaust sides.

9500 lb. Limited Pro Stock Rules:

***NOTE** the below rules have been adapted for ECMTPA sanctioned events. If you should participate in a sanction or co-sanctioned OTTPA event, you must follow all OTTPA rules.*

1. No component chassis.
2. Maximum tire size allowed for competition in all Super Farm and Limited Pro Stock classes is 24.5" x 32" with a maximum of 210 inch circumference, when inflated to 10 psi. Tread width not to exceed 25 inches.
3. 9500 maximum weight.
4. No engine larger than 640 cubic inches (+ or – 1%).
5. A 5.000 bore limit.

6. Deck plate allowed up to .625 thick.
7. Engine head must be OEM agricultural-type for that brand of engine. Port location must be same as stock with manifolds using stock manifold bolt pattern.
8. No recasted or billet, or after market head allowed in any ECMTPA classes. NOTE: MUST BE ABLE TO BOLT ON STOCK INTAKE & EXHAUST MANIFOLDS.
9. Aftermarket manifolds allowed and must bolt in original port bolt pattern.
- 10.No overhead cams.
- 11.Maximum 2 valves per cylinder.
- 12.No inner or after coolers.
- 13.Maximum size injection pump is a P-pump with maximum size plungers of 13 mm. 8300 Series injection pump will not be allowed in any ECMTPA class.
- 14.All OEM chassis Super Farm rules, including shielding, safety apply to this class.
- 15.No map ring, the turbo is limited to a 4.1 inlet (no map ring) with all inlet air passing through this restriction and a 4.50 outlet with all exhaust passing through this restriction. Both inlet and exhaust wheels must protrude 1/8 inch into the opening.

All ECMTPA classes, with the exception of Alcohol Super Stock, must run fuel and water purchased by ECMTPA from Stern Oil Co.