



STX275, STX325, STX375, STX425, STX450 Steiger Tractors

P.I.N. JEE0102001 and After

Service Manual

Book 1 of 12 General Engine



Rac 6-14470

Service Manual Number 6-14440

Book 1 - Publication 6-14470 General Engine Book 2- Publication 6-14480 Electrical Book 3- Publication 6-14490 Steering Book 4- Publication 6-14500 Power Train Books 5- Publication 6-14510 Power Train (Continued) Book 6- Publication 6-14520 Power Train (Continued) Brakes Book 7- Publication 6-14530 **Hydraulics** Book 8 - Publication 6-14540 Chassis Book 9 - Publication 6-14550 Chassis (Continued) Book 10 - Publication 6-14560 **Controller Systems** Book 11 - Publication 6-14570 Controller Systems (Continued)

Book 12- Publication 6-14580 Controller Systems (Continued)

You can order Service Manual Books separately (see publication numbers above) or you can order a complete STX Steiger Service Manual for P.I.N. JEE0102001 and After (Publication Number 6-14440).

Section 1001

SAFETY

SAFETY

WARNING: THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.**

To prevent injury always follow the Warning, Caution and Danger notes in this section and throughout the manual.

Put the "Do Not Operate" tag shown below on the key for the key switch when keys are removed for servicing or repairing the machine. Tags are available from your service parts supplier.

Before servicing a machine, park the machine on hard level ground. Turn off the engine, apply the parking brake and remove the key from the key switch. Put blocks in front of and behind either the front or rear wheels.



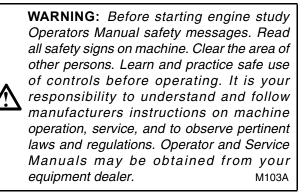
MS99B001



WARNING: Read the operators manual to familiarize yourself with the correct control functions. M489

WARNING: Operate the machine and equipment controls from the seat position only. Any other method could result in serious injury. M490

WARNING: This is one man machine, no riders allowed. M491



WARNING: If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured. Always wear clothing that will not catch on objects. Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing. M492



WARNING: When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution. M493



WARNING: When doing checks and tests on the equipment hydraulics, follow the procedures as they are written. DO NOT change the procedure. M494



WARNING: When putting the hydraulic cylinders on this machine through the necessary cycles to check operation or to remove air from a circuit, make sure all people are out of the way. M495

WARNING: Always wear heat protective gloves to prevent burning your hands when handling heated parts. SM121A



WARNING: Lower all attachments to the ground or use stands to safely support the attachments before you do any maintenance or service. M496

WARNING: Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To Prevent Personal Injury:

Relieve all pressure, before disconnecting fluid lines. Before applying pressure, make

sure all connections are tight and components are in good condition.

Never use your hand to check for suspected leaks under pressure.

Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately. SM171A

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WARNING: When removing hardened pins such as a pivot pin, or a hardened shaft, use a soft head (brass or bronze) hammer or use a driver made from brass or bronze and a steel head hammer. M497

WARNING: When using a hammer to remove and install pivot pins or separate parts using compressed air or using a grinder, wear eye protection that completely encloses the eyes (approved goggles or other approved eye protectors). M498

WARNING: Use suitable floor (service) jacks or chain hoist to raise wheels or tracks off the floor. Always block machine in place with suitable safety stands M499

WARNING: When servicing or repairing the machine. Keep the shop floor and operators compartment and steps free of oil, water, grease, tools, etc. Use an oil absorbing material and or shop cloths as required. Use safe practices at all times. M500

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WARNING: Some components of this machine are very heavy. Use suitable lifting equipment or additional help as instructed in the Service Manual. M501



WARNING: Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension. Open the door and get outside air into the area. M502

WARNING: When the battery electrolyte is frozen, the battery can explode if (1), you try to charge the battery, or (2), you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured. M503

WARNING: Batteries contain acid and explosive gas. Explosions can result from sparks, flames or wrong cable connections. To connect the jumper cables correctly to the battery of this machine see the Operators Manual. Failure to follow these instructions can cause serious injury or death. M504

ROLL OVER PROTECTIVE STRUCTURE (ROPS)

ROPS, the operators seat, the seat belts and all mounting, accessories and wiring inside the operators protective system must be carefully checked after a tractor accident and all parts with damage must be replaced immediately. DO NOT TRY TO MAKE REPAIRS OR WELD THE ROPS.

Safety Rules:

- 1. Do not make modifications to the ROPS. Example, welding an accessory to the ROPS or drilling a hole in the ROPS.
- 2. Special fasteners are used to install the operator protective parts. Replacement parts must be the same as given in the Parts Catalog.

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